

**Central  
South Australia**

May 2025



CELEBRATING  
**20**  
YEARS

# NVT HARVEST REPORT



[nvt.grdc.com.au](http://nvt.grdc.com.au)

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NVT Harvest Report – Central South Australia

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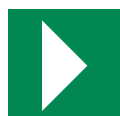
**COVER:** Kalyx Australia harvesting at the GRDC National Variety Trials (NVT) site on John and Brendan Pattison's farm near Marrar, New South Wales.

**PHOTO:** Nicole Baxter

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## LEGEND: MEAN VARIETY YIELD PERFORMANCE



HIGH

LOW

Long-term mean yield illustrated by colour gradient from high (green) to low (red)

## LEGEND: DISEASE RATING COLOUR RANGE

|   |     |    |      |    |     |   |     |    |
|---|-----|----|------|----|-----|---|-----|----|
| R | RMR | MR | MRMS | MS | MSS | S | SVS | VS |
|---|-----|----|------|----|-----|---|-----|----|

Disease severity scale from resistant (R) to very susceptible (VS)

The disease ratings in the report are current at the time of publication.

Regularly visit [nvt.grdc.com.au/nvt-disease-ratings](http://nvt.grdc.com.au/nvt-disease-ratings) to find the latest NVT disease ratings.

Refer to the latest *Crop Sowing Guide* for further information at  
[nvt.grdc.com.au/resources/crop-sowing-guides](http://nvt.grdc.com.au/resources/crop-sowing-guides)



# INTRODUCTION

*The NVT Harvest Report – Central South Australia* provides information to support growers and advisers with decisions on variety selection for **Central South Australia**. The information has been generated from the Grains Research and Development Corporation's (GRDC) National Variety Trials (NVT) database. This publication provides a summary of the 2024 and long-term yield performance of varieties of crop species suitable for production in **Central South Australia** together with their quality and disease responses.

The NVT program provides growers and advisers with comparative results on yield performance, quality and disease resistance ratings of commercially available grain varieties that is independent, consistent, timely and robust.

Conducted to a set of predetermined protocols, trials are sown and managed to reflect local best practice such as sowing time, fertiliser application, weed management, pest/disease control and fungicide application. The NVT is not designed to grow varieties to their maximum yield potential.

GRDC recognises that sustaining a project of this nature hinges on the collaboration of growers who willingly provide sites and often lend a hand in trial management on their properties. Equally significant is the partnership with seed companies who supply seed of commercial varieties and experimental lines to the program.

## Interpreting long-term yield results

A factor analytic (FA) mixed model approach is used in the multi-environment trial (MET) analysis conducted by GRDC, supported by the Analytics for the Australian Grains Industry (AAGI).

This approach generates long-term MET values for varieties at an individual trial level.

This format provides more detailed results to better understand a variety's performance over several years at the individual trial/environment level, rather than just a single averaged value.

In the *NVT Harvest Report – Central South Australia*, results are presented in year groupings for yield for the past five years and quality for the past two years. Further detailed interrogation of the NVT Online results using the Long Term Yield Reporter will provide more specific performance results on all varieties of each crop species in each NVT location throughout **Central South Australia**.

The results presented in this Harvest Report are based on the default filters in the Long Term Yield Reporter. In some cases, trial results are excluded because they do not meet the default standards for statistical validity. These are listed in the tables as 'Trial results below standard'. Trials below standard can be viewed by reducing the default VAF settings within the [Long Term Yield Reporter](#).

Trials listed as compromised are not suitable for making variety decisions. Results can be found in the [Quarantined trial reports](#).

▶ Refer to the latest *Crop Sowing Guide* for further information at [nvt.grdc.com.au/resources/crop-sowing-guides](https://nvt.grdc.com.au/resources/crop-sowing-guides)

## NVT 20th anniversary

In 2025, the National Variety Trials (NVT) proudly celebrates 20 years of empowering Australian grain growers and their advisers with trusted, independent results to support varietal decision-making.

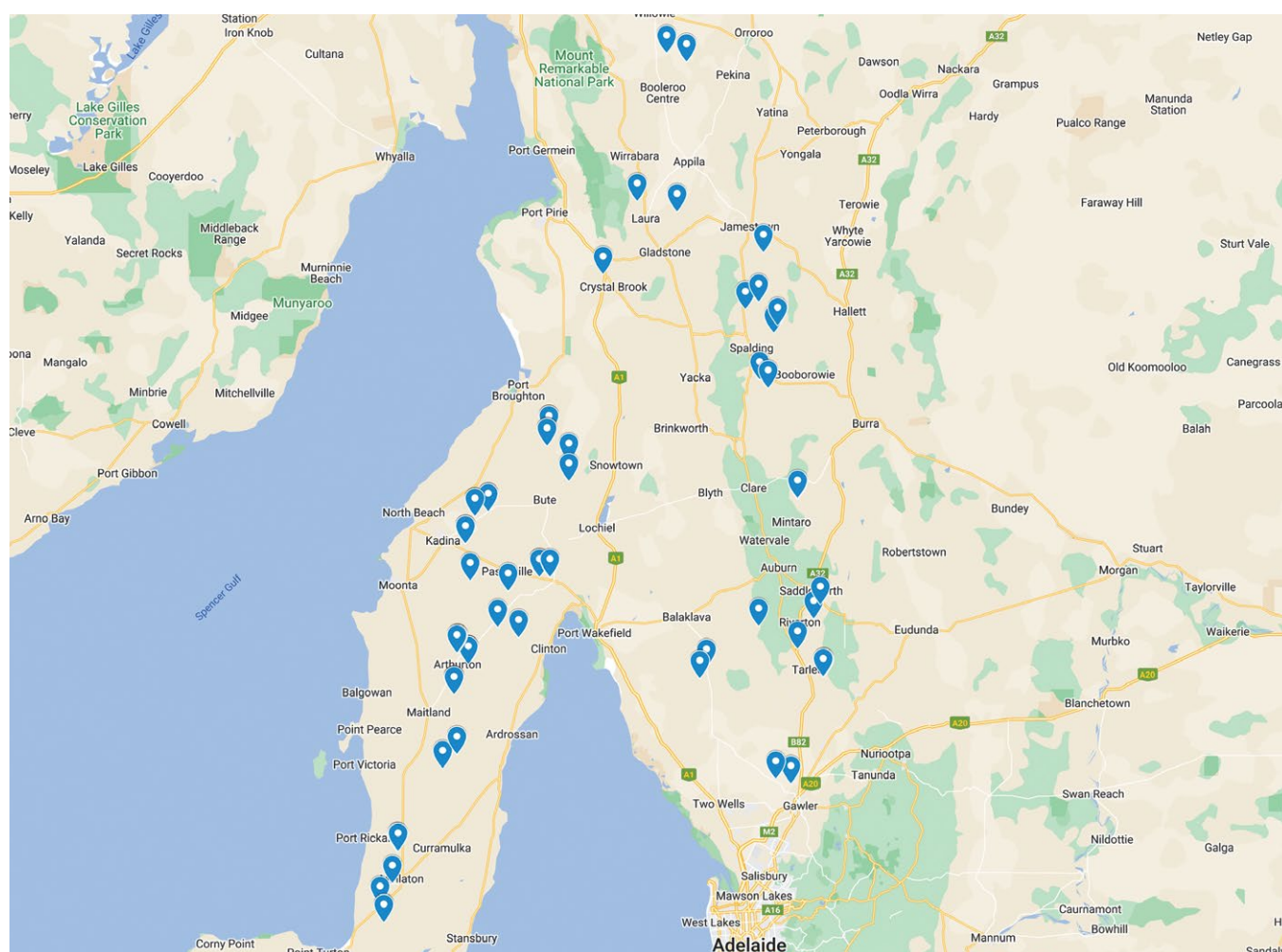
Established in 2005 by the Grains Research and Development Corporation (GRDC), the NVT program has evolved into the largest coordinated variety trial network in the world. Each year, more than 640 trials are conducted across over 300 locations nationwide, encompassing 10 different crop species. Over the past two decades, NVT has been a transformative force, providing growers with credible insights into newly released varieties that drives the rapid adoption of superior genetics.

The success of NVT is a testament to the collaborative efforts of many. GRDC extends heartfelt thanks to the growers, GRDC staff and panellists, service providers, trial hosts, breeding companies and members of the NVT Advisory Committee who have been instrumental in this journey. Your dedication has delivered exceptional outcomes, advancing the productivity and profitability of Australian grain growers and strengthening the grains industry as a whole.

As we mark this significant milestone, GRDC celebrates the achievements of NVT and looks forward to continuing to deliver game-changing innovations for Australia's grains sector in the years to come.

## NVT SITE LOCATIONS – Central South Australia

Figure 1: Locality of NVT trial sites in Central South Australia from 2020 to 2024.



SOURCE: National Variety Trials

See all NVT trial locations and view trial results at [nvt.grdc.com.au/trial-results](https://nvt.grdc.com.au/trial-results).

# WHEAT

## New wheat varieties

The following information is for wheat varieties released in the 12 months to the date when the MET analysis was published on NVT online. Please go to [nvt.grdc.com.au](http://nvt.grdc.com.au) to find trial results for any new varieties released since the publication of this harvest report.

| Variety                   | Breeding company                      | Grain classification – southern zone | End point royalty* (\$) | Comments supplied by breeding company <sup>1</sup>  |
|---------------------------|---------------------------------------|--------------------------------------|-------------------------|---|
| Boa <sup>®</sup>          | LongReach Plant Breeders Pty Ltd      | TBC                                  | 4.00                    | Boa <sup>®</sup> is an AH wheat combining the best attributes of the Scepter <sup>®</sup> x LRPB Cobra <sup>®</sup> parentage to deliver a shorter canopy wheat with an erect growth habit to suit high production and irrigation. Boa <sup>®</sup> has both acid and boron tolerance traits. <b>Maturity description:</b> quick-mid spring   |
| Ironbark <sup>®</sup>     | Australian Grain Technologies Pty Ltd | TBC                                  | 3.90                    | Ironbark <sup>®</sup> is derived from Beckom <sup>®</sup> and is an excellent replacement for Beckom <sup>®</sup> . It is similar in plant height and canopy to Beckom <sup>®</sup> and is very widely adapted, suited to most of southern NSW. It has improved yield and grain size compared with Beckom <sup>®</sup> . It carries the major aluminium tolerance gene, which contributes to acid soil tolerance. <b>Maturity description:</b> mid spring |
| Lancelin <sup>®</sup>     | Australian Grain Technologies Pty Ltd | TBC                                  | 3.70                    | Lancelin <sup>®</sup> has Australian Soft (ASFT) quality classification. It has high and stable yields in WA, similar to Scepter <sup>®</sup> . It is similar to Scepter <sup>®</sup> with an excellent physical grain quality package, high test weights and low screenings. <b>Maturity description:</b> mid spring   |
| LRPB Major <sup>®</sup>   | LongReach Plant Breeders Pty Ltd      | AH                                   | 4.00                    | LRBP Major <sup>®</sup> is suitable for early to mid-May seeding opportunities throughout southern NSW. It has strong yield performance in both acidic and sodic soil yield trials. Marketed by Pacific Seeds. <b>Maturity description:</b> mid-slow spring   |
| RGT Ponsford <sup>®</sup> | RAGT                                  | TBC                                  | 4.00                    | Variety description not supplied.   |
| Shotgun <sup>®</sup>      | Australian Grain Technologies Pty Ltd | AH                                   | 3.90                    | Shotgun <sup>®</sup> is a Scepter <sup>®</sup> replacement with a significant yield advantage. It is agronomically very similar to Scepter <sup>®</sup> . <b>Maturity description:</b> mid spring   |

\*EPR amount is ex-GST, <sup>®</sup>denotes Plant Breeder's Rights apply. <sup>1</sup>All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder. Consult the Grains Australia [Wheat Variety Master List](http://Wheat Variety Master List) for final classification in your region.

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

Refer to the latest *Crop Sowing Guide* for further information at [nvt.grdc.com.au/resources/crop-sowing-guides](http://nvt.grdc.com.au/resources/crop-sowing-guides)

## Wheat variety yield performance – Central South Australia

Yield results are presented from the top-performing varieties within each NVT location in the region for the past five seasons. Results are presented (as a percentage) for each variety relative to the mean trial yield for the location within each year. Varieties are listed in descending order of average yield over the period.

The Long Term Yield Reporter provides additional information on varieties not listed and can be viewed as a table or chart with error bars. Rainfall is provided for January to March (J–M) and April to October (A–O) and, where relevant, irrigation from April to October.

**Table 1: Booleroo Centre main season wheat.**

| Year                           |       | 2020          | 2021          | 2022         | 2023          | 2024          |
|--------------------------------|-------|---------------|---------------|--------------|---------------|---------------|
| Mean yield (t/ha)              | Class | 3.21          | 2.20          | 3.06         | 1.14          |               |
| Shotgun <sup>db</sup>          |       |               |               |              | 121           |               |
| Ballista <sup>db</sup>         | AH    | 109           | 107           | 102          | 115           |               |
| Calibre <sup>db</sup>          | AH    | 106           | 111           | 101          | 118           |               |
| Genie <sup>db</sup>            | AH    |               |               |              | 100           |               |
| RockStar <sup>db</sup>         | AH    | 108           | 107           | 107          | 101           |               |
| Boa <sup>db</sup>              |       |               |               |              | 106           |               |
| Sunblade CL Plus <sup>db</sup> | AH    | 104           | 106           | 107          | 104           |               |
| LRPB Matador <sup>db</sup>     | AH    |               |               | 97           | 114           |               |
| Brumby <sup>db</sup>           | APW   |               | 108           | 104          | 106           |               |
| Vixen <sup>db</sup>            | AH    | 107           | 105           | 95           | 119           |               |
| Reilly <sup>db</sup>           | AH    | 108           | 101           | 99           | 108           |               |
| Dozer <sup>db</sup> CL Plus    | APW   |               |               |              | 107           |               |
| RGT Ponsford <sup>db</sup>     |       |               | 102           | 104          | 98            |               |
| Boree <sup>db</sup>            | AH    | 103           | 105           | 100          | 106           |               |
| Denison <sup>db</sup>          | APW   | 100           | 106           | 105          | 97            |               |
| <b>Sowing date</b>             |       | <b>11 May</b> | <b>26 May</b> | <b>1 Jun</b> | <b>30 May</b> | <b>31 May</b> |
| <b>Rainfall J–M (mm)</b>       |       | <b>96</b>     | <b>29</b>     | <b>62</b>    | <b>25</b>     | <b>20</b>     |
| <b>Rainfall A–O (mm)</b>       |       | <b>344</b>    | <b>213</b>    | <b>251</b>   | <b>163</b>    | <b>126</b>    |

Compromised trial

Special thanks to 2024 trial cooperator, Wayne Rooke.  
Learn more via the [NVT Long Term Yield Reporter](#)

**Table 2: Brentwood main season wheat.**

| Year                           |       | 2020          | 2021          | 2022         | 2023         | 2024 |
|--------------------------------|-------|---------------|---------------|--------------|--------------|------|
| Mean yield (t/ha)              | Class | 3.46          | 4.90          | 5.95         | 4.12         |      |
| Shotgun <sup>db</sup>          |       |               |               |              | 105          |      |
| Tomahawk CL Plus <sup>db</sup> | APW   |               |               | 110          | 105          |      |
| LRPB Matador <sup>db</sup>     | AH    |               |               | 108          | 105          |      |
| Calibre <sup>db</sup>          | AH    | 110           | 110           | 109          | 104          |      |
| Vixen <sup>db</sup>            | AH    | 111           | 111           | 107          | 102          |      |
| Boa <sup>db</sup>              |       |               |               |              | 107          |      |
| Ballista <sup>db</sup>         | AH    | 108           | 108           | 107          | 102          |      |
| Brumby <sup>db</sup>           | APW   |               | 105           | 107          | 107          |      |
| RockStar <sup>db</sup>         | AH    | 105           | 104           | 107          | 109          |      |
| Dozer <sup>db</sup> CL Plus    | APW   |               |               |              | 104          |      |
| RGT Ponsford <sup>db</sup>     |       |               | 103           | 106          | 108          |      |
| Scepter <sup>db</sup>          | AH    | 107           | 107           | 105          | 103          |      |
| Boree <sup>db</sup>            | AH    | 106           | 106           | 105          | 105          |      |
| Kingston <sup>db</sup>         | AH    | 107           | 105           | 104          | 106          |      |
| Denison <sup>db</sup>          | APW   | 103           | 102           | 105          | 109          |      |
| <b>Sowing date</b>             |       | <b>12 May</b> | <b>25 May</b> | <b>9 Jun</b> | <b>9 May</b> |      |
| <b>Rainfall J–M (mm)</b>       |       | <b>51</b>     | <b>51</b>     | <b>92</b>    | <b>35</b>    |      |
| <b>Rainfall A–O (mm)</b>       |       | <b>285</b>    | <b>291</b>    | <b>286</b>   | <b>234</b>   |      |

No trial

No 2024 trial cooperator.  
Learn more via the [NVT Long Term Yield Reporter](#)

**Table 3: Maitland main season wheat.**

| Year                           |       | 2020          | 2021          | 2022          | 2023          | 2024         |
|--------------------------------|-------|---------------|---------------|---------------|---------------|--------------|
| Mean yield (t/ha)              | Class | 4.79          | 5.26          | 5.98          | 4.81          | 4.15         |
| Shotgun <sup>db</sup>          |       |               |               |               | 115           | 108          |
| Tomahawk CL Plus <sup>db</sup> | APW   |               |               | 98            | 118           | 112          |
| RockStar <sup>db</sup>         | AH    | 107           | 110           | 111           | 109           | 108          |
| Brumby <sup>db</sup>           | APW   |               | 109           | 106           | 113           | 111          |
| Calibre <sup>db</sup>          | AH    | 108           | 111           | 101           | 112           | 113          |
| Boa <sup>db</sup>              |       |               |               |               | 110           | 107          |
| LRPB Matador <sup>db</sup>     | AH    |               |               | 100           | 112           | 110          |
| Denison <sup>db</sup>          | APW   | 104           | 107           | 109           | 111           | 110          |
| RGT Ponsford <sup>db</sup>     |       |               | 108           | 110           | 109           | 105          |
| Ballista <sup>db</sup>         | AH    | 107           | 109           | 102           | 108           | 107          |
| Vixen <sup>db</sup>            | AH    | 109           | 110           | 96            | 109           | 108          |
| Boree <sup>db</sup>            | AH    | 106           | 107           | 102           | 108           | 107          |
| Dozer <sup>db</sup> CL Plus    | APW   |               |               |               | 105           | 103          |
| Scepter <sup>db</sup>          | AH    | 104           | 107           | 98            | 111           | 109          |
| Kingston <sup>db</sup>         | AH    | 108           | 106           | 102           | 108           | 102          |
| <b>Sowing date</b>             |       | <b>11 May</b> | <b>14 May</b> | <b>19 May</b> | <b>12 May</b> | <b>6 Jun</b> |
| <b>Rainfall J–M (mm)</b>       |       | <b>47</b>     | <b>71</b>     | <b>97</b>     | <b>58</b>     | <b>23</b>    |
| <b>Rainfall A–O (mm)</b>       |       | <b>344</b>    | <b>219</b>    | <b>417</b>    | <b>278</b>    | <b>198</b>   |

Special thanks to 2024 trial cooperator, Peter Klopp Farming.  
Learn more via the [NVT Long Term Yield Reporter](#)

**Table 4: Minlaton main season wheat.**

| Year                           |       | 2020     | 2021     | 2022     | 2023     | 2024          |
|--------------------------------|-------|----------|----------|----------|----------|---------------|
| Mean yield (t/ha)              | Class |          |          |          |          | 3.83          |
| Tomahawk CL Plus <sup>db</sup> | APW   |          |          |          |          | 109           |
| Shotgun <sup>db</sup>          |       |          |          |          |          | 108           |
| Calibre <sup>db</sup>          | AH    |          |          |          |          | 106           |
| Brumby <sup>db</sup>           | APW   |          |          |          |          | 106           |
| Vixen <sup>db</sup>            | AH    |          |          |          |          | 105           |
| Ballista <sup>db</sup>         | AH    |          |          |          |          | 105           |
| Scepter <sup>db</sup>          | AH    |          |          |          |          | 105           |
| LRPB Matador <sup>db</sup>     | AH    | No trial | No trial | No trial | No trial | 105           |
| Boa <sup>db</sup>              |       |          |          |          |          | 104           |
| Sunmaster <sup>db</sup>        | APH   |          |          |          |          | 104           |
| Soaker <sup>db</sup>           | APW   |          |          |          |          | 104           |
| Denison <sup>db</sup>          | APW   |          |          |          |          | 103           |
| Sunblade CL Plus <sup>db</sup> | AH    |          |          |          |          | 103           |
| RGT Ponsford <sup>db</sup>     |       |          |          |          |          | 103           |
| RockStar <sup>db</sup>         | AH    |          |          |          |          | 103           |
| <b>Sowing date</b>             |       |          |          |          |          | <b>30 May</b> |
| <b>Rainfall J–M (mm)</b>       |       |          |          |          |          | <b>28</b>     |
| <b>Rainfall A–O (mm)</b>       |       |          |          |          |          | <b>145</b>    |

Special thanks to 2024 trial cooperator.  
Learn more via the [NVT Long Term Yield Reporter](#)

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

Table 5: Mintaro main season wheat.

| Year                           |       | 2020   | 2021   | 2022  | 2023              | 2024              |
|--------------------------------|-------|--------|--------|-------|-------------------|-------------------|
| Mean yield (t/ha)              | Class | 6.65   | 6.49   | 7.25  |                   |                   |
| Ballista <sup>db</sup>         | AH    | 106    | 109    | 108   | Compromised trial | Compromised trial |
| RGT Zanzibar                   | FEED  | 98     | 102    | 121   |                   |                   |
| Tomahawk CL Plus <sup>db</sup> | APW   |        |        | 105   |                   |                   |
| RockStar <sup>db</sup>         | AH    | 106    | 110    | 104   |                   |                   |
| RGT Ponsford <sup>db</sup>     |       |        | 107    | 106   |                   |                   |
| Calibre <sup>db</sup>          | AH    | 106    | 110    | 102   |                   |                   |
| LRPB Matador <sup>db</sup>     | AH    |        |        | 101   |                   |                   |
| Vixen <sup>db</sup>            | AH    | 108    | 106    | 102   |                   |                   |
| Sunblade CL Plus <sup>db</sup> | AH    | 100    | 106    | 109   |                   |                   |
| Sunmaster <sup>db</sup>        | APH   |        | 104    | 114   |                   |                   |
| Devil <sup>db</sup>            | AH    | 107    | 105    | 103   |                   |                   |
| Brumby <sup>db</sup>           | APW   |        | 108    | 103   |                   |                   |
| Kingston <sup>db</sup>         | AH    | 107    | 101    | 103   |                   |                   |
| Denison <sup>db</sup>          | APW   | 102    | 107    | 100   |                   |                   |
| Boree <sup>db</sup>            | AH    | 105    | 105    | 99    |                   |                   |
| Sowing date                    |       | 11 May | 31 May | 3 Jun | 22 May            | 5 Jun             |
| Rainfall J–M (mm)              |       | 82     | 34     | 71    | 40                | 7                 |
| Rainfall A–O (mm)              |       | 436    | 429    | 563   | 263               | 190               |

Special thanks to 2024 trial cooperator, Chelwood Farming.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 7: Pinery main season wheat.

| Year              |       | 2020     | 2021     | 2022     | 2023     | 2024              |
|-------------------|-------|----------|----------|----------|----------|-------------------|
| Mean yield (t/ha) | Class |          |          |          |          |                   |
|                   |       | No trial | No trial | No trial | No trial | Compromised trial |
|                   |       |          |          |          |          |                   |
|                   |       |          |          |          |          |                   |
|                   |       |          |          |          |          |                   |
|                   |       |          |          |          |          |                   |
|                   |       |          |          |          |          |                   |
|                   |       |          |          |          |          |                   |
|                   |       |          |          |          |          |                   |
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|                   |       |          |          |          |          |                   |
|                   |       |          |          |          |          |                   |
|                   |       |          |          |          |          |                   |
|                   |       |          |          |          |          |                   |
|                   |       |          |          |          |          |                   |
|                   |       |          |          |          |          |                   |
| Sowing date       |       |          |          |          |          | 30 May            |
| Rainfall J–M (mm) |       |          |          |          |          | 13                |
| Rainfall A–O (mm) |       |          |          |          |          | 184               |

Special thanks to 2024 trial cooperator.

Table 6: Paskeville main season wheat.

| Year                             |       | 2020              | 2021   | 2022              | 2023   | 2024  |
|----------------------------------|-------|-------------------|--------|-------------------|--------|-------|
| Mean yield (t/ha)                | Class |                   | 2.40   |                   | 3.42   | 4.01  |
| Tomahawk CL Plus <sup>db</sup>   | APW   | Compromised trial |        | Compromised trial | 118    | 113   |
| Shotgun <sup>db</sup>            |       |                   |        |                   | 117    | 113   |
| LRPB Matador <sup>db</sup>       | AH    |                   |        |                   | 113    | 109   |
| Vixen <sup>db</sup>              | AH    |                   | 112    |                   | 112    | 109   |
| Calibre <sup>db</sup>            | AH    |                   | 105    |                   | 110    | 112   |
| Scepter <sup>db</sup>            | AH    |                   | 107    |                   | 109    | 109   |
| Soaker <sup>db</sup>             | APW   |                   |        |                   | 110    | 105   |
| Kingston <sup>db</sup>           | AH    |                   | 111    |                   | 111    | 102   |
| Ballista <sup>db</sup>           | AH    |                   | 104    |                   | 107    | 109   |
| Brumby <sup>db</sup>             | APW   |                   | 100    |                   | 108    | 110   |
| Boa <sup>db</sup>                |       |                   |        |                   | 108    | 107   |
| Boree <sup>db</sup>              | AH    |                   | 105    |                   | 107    | 106   |
| Dozer <sup>db</sup> CL Plus      | APW   |                   |        |                   | 108    | 103   |
| Razor CL Plus <sup>db</sup>      | ASW   |                   | 108    |                   | 104    | 106   |
| LRPB Anvil <sup>db</sup> CL Plus | AH    |                   | 112    |                   | 103    | 103   |
| Sowing date                      |       | 7 May             | 12 May | 14 Jun            | 16 May | 3 Jun |
| Rainfall J–M (mm)                |       | 39                | 33     | 113               | 47     | 21    |
| Rainfall A–O (mm)                |       | 268               | 229    | 285               | 201    | 152   |

Special thanks to 2024 trial cooperator.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 8: Spalding main season wheat.

| Year                           |       | 2020  | 2021   | 2022  | 2023   | 2024  |
|--------------------------------|-------|-------|--------|-------|--------|-------|
| Mean yield (t/ha)              | Class | 5.56  | 4.05   | 8.57  | 4.93   | 2.33  |
| Shotgun <sup>db</sup>          |       |       |        |       | 111    | 117   |
| Tomahawk CL Plus <sup>db</sup> | APW   |       |        | 114   | 111    | 116   |
| Vixen <sup>db</sup>            | AH    | 110   | 109    | 107   | 106    | 115   |
| Ballista <sup>db</sup>         | AH    | 109   | 106    | 110   | 104    | 111   |
| LRPB Matador <sup>db</sup>     | AH    |       |        | 106   | 105    | 114   |
| Calibre <sup>db</sup>          | AH    | 109   | 108    | 105   | 105    | 116   |
| Boa <sup>db</sup>              |       |       |        |       | 103    | 109   |
| Kingston <sup>db</sup>         | AH    | 105   | 105    | 109   | 105    | 104   |
| Scepter <sup>db</sup>          | AH    | 105   | 106    | 105   | 106    | 110   |
| Soaker <sup>db</sup>           | APW   |       |        |       | 106    | 107   |
| Dozer <sup>db</sup> CL Plus    | APW   |       |        |       | 101    | 108   |
| Brumby <sup>db</sup>           | APW   |       | 105    | 105   | 104    | 108   |
| RGT Ponsford <sup>db</sup>     |       |       | 104    | 107   | 102    | 104   |
| Sunblade CL Plus <sup>db</sup> | AH    | 104   | 101    | 108   | 102    | 103   |
| Lancelin <sup>db</sup>         |       |       |        | 102   | 105    | 107   |
| Sowing date                    |       | 8 May | 31 May | 2 Jun | 11 May | 2 Jun |
| Rainfall J–M (mm)              |       | 67    | 31     | 52    | 38     | 62    |
| Rainfall A–O (mm)              |       | 425   | 318    | 396   | 239    | 169   |

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Table 9: Turretfield main season wheat.

| Year                           |       | 2020   | 2021   | 2022   | 2023   | 2024     |
|--------------------------------|-------|--------|--------|--------|--------|----------|
| Mean yield (t/ha)              | Class | 5.28   | 5.72   | 7.60   | 4.35   |          |
| Shotgun <sup>db</sup>          |       |        |        |        | 110    |          |
| Tomahawk CL Plus <sup>db</sup> | APW   |        |        | 103    | 112    |          |
| Boa <sup>db</sup>              |       |        |        |        | 104    |          |
| LRPB Matador <sup>db</sup>     | AH    |        |        | 103    | 106    |          |
| RockStar <sup>db</sup>         | AH    | 106    | 109    | 109    | 101    |          |
| RGT Ponsford <sup>db</sup>     |       |        | 108    | 109    | 102    |          |
| Brumby <sup>db</sup>           | APW   |        | 109    | 105    | 106    |          |
| RGT Zanzibar                   | FEED  | 96     | 99     | 126    | 93     | No trial |
| Kingston <sup>db</sup>         | AH    | 108    | 106    | 106    | 104    |          |
| Calibre <sup>db</sup>          | AH    | 108    | 109    | 102    | 106    |          |
| Denison <sup>db</sup>          | APW   | 104    | 109    | 106    | 102    |          |
| Ballista <sup>db</sup>         | AH    | 107    | 105    | 104    | 105    |          |
| Dozer <sup>db</sup> CL Plus    | APW   |        |        |        | 101    |          |
| Vixen <sup>db</sup>            | AH    | 109    | 107    | 100    | 106    |          |
| Boree <sup>db</sup>            | AH    | 106    | 107    | 102    | 103    |          |
| Sowing date                    |       | 15 May | 26 May | 23 May | 23 May |          |
| Rainfall J–M (mm)              |       | 32     | 43     | 82     | 9      |          |
| Rainfall A–O (mm)              |       | 285    | 298    | 370    | 224    |          |

No 2024 trial cooperator.

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Table 11: Maitland durum wheat.

| Year                       |       | 2020   | 2021   | 2022   | 2023   | 2024  |
|----------------------------|-------|--------|--------|--------|--------|-------|
| Mean yield (t/ha)          | Class | 5.39   | 4.48   | 5.81   | 3.33   | 2.49  |
| Patron <sup>db</sup>       | ADR   |        | 114    | 117    | 92     | 99    |
| Bitalli <sup>db</sup>      | ADR   | 103    | 104    | 103    | 102    | 101   |
| DBA Mataroi <sup>db</sup>  | FEED  |        | 101    | 97     | 110    | 103   |
| Westcourt <sup>db</sup>    | ADR   | 101    | 98     | 107    | 98     | 96    |
| Hyperno <sup>db</sup>      | ADR   | 101    | 101    | 100    | 94     | 100   |
| DBA-Aurora <sup>db</sup>   | ADR   | 102    | 105    | 95     | 88     | 102   |
| Saintly                    | ADR   | 95     | 95     | 90     | 110    | 102   |
| DBA Vittaroi <sup>db</sup> | ADR   | 97     | 100    | 87     | 93     | 103   |
| DBA Bindaroi <sup>db</sup> | FEED  | 95     | 95     | 89     | 99     | 101   |
| Caparoi <sup>db</sup>      | ADR   | 95     | 93     | 89     | 90     | 99    |
| Sowing date                |       | 11 May | 14 May | 19 May | 12 May | 6 Jun |
| Rainfall J–M (mm)          |       | 47     | 71     | 97     | 58     | 23    |
| Rainfall A–O (mm)          |       | 344    | 219    | 417    | 278    | 198   |

Special thanks to 2024 trial cooperator, Klopp Farming.

Learn more via the [NVT Long Term Yield Reporter](#)

Table 10: Wokurna main season wheat.

| Year                           |       | 2020  | 2021   | 2022   | 2023   | 2024         |
|--------------------------------|-------|-------|--------|--------|--------|--------------|
| Mean yield (t/ha)              | Class | 2.50  | 4.19   | 6.96   | 4.20   |              |
| Shotgun <sup>db</sup>          |       |       |        |        | 117    |              |
| Tomahawk CL Plus <sup>db</sup> | APW   |       |        | 108    | 118    |              |
| Brumby <sup>db</sup>           | APW   |       | 110    | 107    | 108    |              |
| Boa <sup>db</sup>              |       |       |        |        | 106    |              |
| Calibre <sup>db</sup>          | AH    | 108   | 112    | 106    | 108    |              |
| LRPB Matador <sup>db</sup>     | AH    |       |        | 105    | 108    |              |
| RockStar <sup>db</sup>         | AH    | 113   | 109    | 108    | 101    |              |
| RGT Ponsford <sup>db</sup>     |       |       | 107    | 108    | 104    | Trial failed |
| Ballista <sup>db</sup>         | AH    | 106   | 107    | 107    | 107    |              |
| Denison <sup>db</sup>          | APW   | 112   | 109    | 106    | 103    |              |
| Vixen <sup>db</sup>            | AH    | 102   | 110    | 104    | 109    |              |
| Scepter <sup>db</sup>          | AH    | 104   | 108    | 103    | 110    |              |
| Kingston <sup>db</sup>         | AH    | 103   | 107    | 105    | 108    |              |
| Soaker <sup>db</sup>           | APW   |       |        |        | 110    |              |
| Sunmaster <sup>db</sup>        | APH   |       | 97     | 109    | 106    |              |
| Sowing date                    |       | 7 May | 26 May | 13 May | 19 May | 4 Jun        |
| Rainfall J–M (mm)              |       | 66    | 36     | 47     | 31     | 21           |
| Rainfall A–O (mm)              |       | 250   | 234    | 283    | 255    | 189          |

Special thanks to 2024 trial cooperator.

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Table 12: Mintaro durum wheat.

| Year                       |       | 2020   | 2021   | 2022  | 2023   | 2024  |
|----------------------------|-------|--------|--------|-------|--------|-------|
| Mean yield (t/ha)          | Class | 5.73   | 6.67   | 7.16  |        |       |
| Patron <sup>db</sup>       | ADR   |        | 116    | 118   |        |       |
| DBA-Aurora <sup>db</sup>   | ADR   | 109    | 110    | 106   |        |       |
| DBA Spes                   | ADR   | 108    | 106    | 105   |        |       |
| Bitalli <sup>db</sup>      | ADR   | 106    | 104    | 106   |        |       |
| DBA Vittaroi <sup>db</sup> | ADR   | 105    | 104    | 99    |        |       |
| WID802                     | ADR   | 102    | 104    | 100   |        |       |
| DBA-Artemis <sup>db</sup>  | ADR   | 98     | 106    | 101   |        |       |
| Hyperno <sup>db</sup>      | ADR   | 101    | 103    | 101   |        |       |
| DBA Mataroi <sup>db</sup>  | FEED  |        | 98     | 102   |        |       |
| Tjilkuri                   | ADR   | 99     | 102    | 99    |        |       |
| Sowing date                |       | 11 May | 31 May | 3 Jun | 22 May | 5 Jun |
| Rainfall J–M (mm)          |       | 82     | 34     | 71    | 40     | 7     |
| Rainfall A–O (mm)          |       | 436    | 429    | 563   | 263    | 190   |

Special thanks to 2024 trial cooperator, Chelwood Farms.

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Table 13: Paskeville durum wheat.

| Year                       |       | 2020              | 2021   | 2022              | 2023   | 2024     |
|----------------------------|-------|-------------------|--------|-------------------|--------|----------|
| Mean yield (t/ha)          | Class |                   | 1.85   |                   | 2.92   |          |
| DBA Mataroi <sup>db</sup>  | FEED  | Compromised trial | 114    | Compromised trial | 106    | No trial |
| Saintly                    | ADR   |                   | 112    |                   | 105    |          |
| DBA Spes                   | ADR   |                   | 107    |                   | 102    |          |
| Bitalli <sup>db</sup>      | ADR   |                   | 106    |                   | 102    |          |
| DBA Vittaroi <sup>db</sup> | ADR   |                   | 108    |                   | 100    |          |
| DBA Bindaroi <sup>db</sup> | FEED  |                   | 102    |                   | 100    |          |
| DBA-Aurora <sup>db</sup>   | ADR   |                   | 102    |                   | 98     |          |
| Patron <sup>db</sup>       | ADR   |                   | 96     |                   | 99     |          |
| Hyperno <sup>db</sup>      | ADR   |                   | 96     |                   | 98     |          |
| Caparoi <sup>db</sup>      | ADR   |                   | 90     |                   | 94     |          |
| Sowing date                |       | 7 May             | 13 May | 14 Jun            | 16 May |          |
| Rainfall J–M (mm)          |       | 39                | 33     | 113               | 47     |          |
| Rainfall A–O (mm)          |       | 268               | 229    | 285               | 201    |          |

No 2024 trial cooperator.

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Table 14: Pinery durum wheat.

| Year              |       | 2020     | 2021     | 2022     | 2023     | 2024              |
|-------------------|-------|----------|----------|----------|----------|-------------------|
| Mean yield (t/ha) | Class |          |          |          |          |                   |
|                   |       | No trial | No trial | No trial | No trial | Compromised trial |
|                   |       |          |          |          |          |                   |
|                   |       |          |          |          |          |                   |
|                   |       |          |          |          |          |                   |
|                   |       |          |          |          |          |                   |
|                   |       |          |          |          |          |                   |
|                   |       |          |          |          |          |                   |
|                   |       |          |          |          |          |                   |
|                   |       |          |          |          |          |                   |
| Sowing date       |       |          |          |          |          | 30 May            |
| Rainfall J–M (mm) |       |          |          |          |          | 13                |
| Rainfall A–O (mm) |       |          |          |          |          | 184               |

Special thanks to 2024 trial cooperator.

Table 15: Spalding durum wheat.

| Year                       |       | 2020  | 2021   | 2022  | 2023   | 2024  |
|----------------------------|-------|-------|--------|-------|--------|-------|
| Mean yield (t/ha)          | Class | 4.96  | 2.98   | 8.57  | 3.77   | 1.74  |
| Patron <sup>db</sup>       | ADR   |       | 101    | 120   | 107    | 104   |
| Bitalli <sup>db</sup>      | ADR   | 103   | 101    | 107   | 102    | 102   |
| DBA-Aurora <sup>db</sup>   | ADR   | 109   | 109    | 98    | 100    | 109   |
| DBA Mataroi <sup>db</sup>  | FEED  |       | 100    | 104   | 101    | 101   |
| Hyperno <sup>db</sup>      | ADR   | 102   | 102    | 98    | 100    | 102   |
| DBA Vittaroi <sup>db</sup> | ADR   | 106   | 110    | 91    |        | 108   |
| Westcourt <sup>db</sup>    | ADR   | 95    | 94     | 100   | 100    | 94    |
| Saintly                    | ADR   | 97    | 101    | 94    | 97     | 100   |
| DBA Bindaroi <sup>db</sup> | FEED  | 98    | 103    | 89    | 96     | 101   |
| Caparoi <sup>db</sup>      | ADR   | 98    | 104    | 83    | 95     | 101   |
| Sowing date                |       | 8 May | 31 May | 2 Jun | 11 May | 2 Jun |
| Rainfall J–M (mm)          |       | 67    | 31     | 52    | 38     | 62    |
| Rainfall A–O (mm)          |       | 425   | 318    | 396   | 239    | 169   |

Special thanks to 2024 trial cooperator.

Learn more via the [NVT Long Term Yield Reporter](#)

Table 16: Turretfield durum wheat.

| Year                       |       | 2020   | 2021   | 2022   | 2023   | 2024     |
|----------------------------|-------|--------|--------|--------|--------|----------|
| Mean yield (t/ha)          | Class | 4.58   | 5.51   | 7.00   | 4.44   |          |
| Patron <sup>db</sup>       | ADR   |        | 105    | 123    | 100    | No trial |
| DBA-Artemis <sup>db</sup>  | ADR   | 104    | 103    | 103    | 98     |          |
| Westcourt <sup>db</sup>    | ADR   | 100    | 102    | 103    | 102    |          |
| Bitalli <sup>db</sup>      | ADR   | 101    | 100    | 105    | 100    |          |
| Hyperno <sup>db</sup>      | ADR   | 102    | 101    | 101    | 98     |          |
| DBA-Aurora <sup>db</sup>   | ADR   | 104    | 101    | 101    | 95     |          |
| DBA Mataroi <sup>db</sup>  | FEED  |        | 98     | 99     | 101    |          |
| DBA Bindaroi <sup>db</sup> | FEED  | 98     | 98     | 88     | 98     |          |
| Caparoi <sup>db</sup>      | ADR   | 99     | 99     | 87     | 97     |          |
| Saintly                    | ADR   | 96     | 96     | 89     | 100    |          |
| Sowing date                |       | 15 May | 26 May | 23 May | 23 May |          |
| Rainfall J–M (mm)          |       | 32     | 43     | 82     | 9      |          |
| Rainfall A–O (mm)          |       | 285    | 298    | 370    | 224    |          |

No 2024 trial cooperator.

Learn more via the [NVT Long Term Yield Reporter](#)

Table 17: Wokurna durum wheat.

| Year                       |       | 2020  | 2021   | 2022   | 2023   | 2024         |
|----------------------------|-------|-------|--------|--------|--------|--------------|
| Mean yield (t/ha)          | Class | 2.14  | 2.92   | 6.18   | 2.95   |              |
| Patron <sup>db</sup>       | ADR   |       | 108    | 108    | 106    | Trial failed |
| Bitalli <sup>db</sup>      | ADR   | 105   | 104    | 101    | 104    |              |
| DBA Spes                   | ADR   | 105   | 101    | 99     | 105    |              |
| DBA-Aurora <sup>db</sup>   | ADR   | 108   | 98     | 99     | 105    |              |
| DBA Mataroi <sup>db</sup>  | FEED  |       | 103    | 98     | 104    |              |
| Hyperno <sup>db</sup>      | ADR   | 102   | 98     | 101    | 100    |              |
| DBA-Artemis <sup>db</sup>  | ADR   | 103   | 96     | 103    | 96     |              |
| Westcourt <sup>db</sup>    | ADR   | 97    | 99     | 104    | 94     |              |
| DBA Vittaroi <sup>db</sup> | ADR   | 102   | 95     | 95     | 104    |              |
| Saintly                    | ADR   | 93    | 99     | 94     | 101    |              |
| Sowing date                |       | 7 May | 26 May | 13 May | 19 May | 4 Jun        |
| Rainfall J–M (mm)          |       | 66    | 36     | 47     | 31     | 21           |
| Rainfall A–O (mm)          |       | 250   | 234    | 283    | 255    | 189          |

Special thanks to 2024 trial cooperator.

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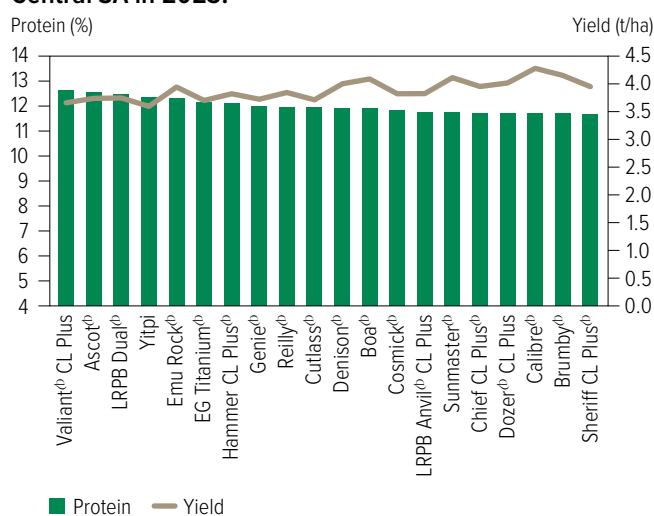
## Wheat variety quality – Central South Australia

Grain quality for individual varieties varies from site to site and from year to year. However, long-term and across-site trends highlight varieties that can consistently achieve high protein percentage, high test weight or low grain screenings under a wider range of environments.

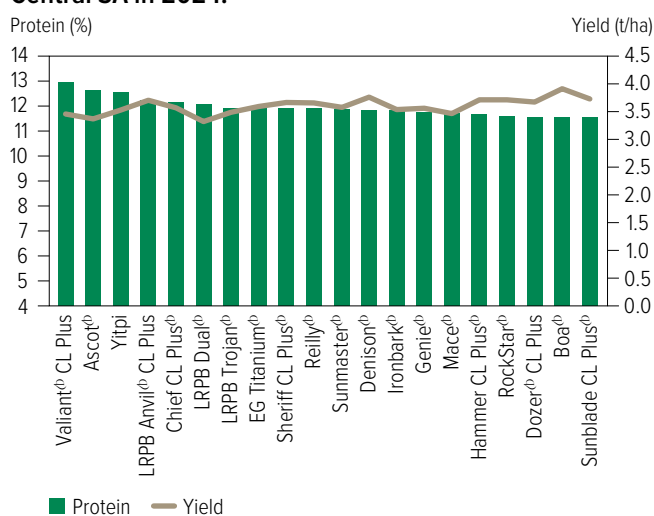
The following figures show the grain quality trends as histograms from 2023 and 2024 NVT averaged for trials in the Central South Australia region. Only the varieties evaluated at every site are included. These are plotted in order of performance, up to a maximum of 20.

### Protein and yield comparisons

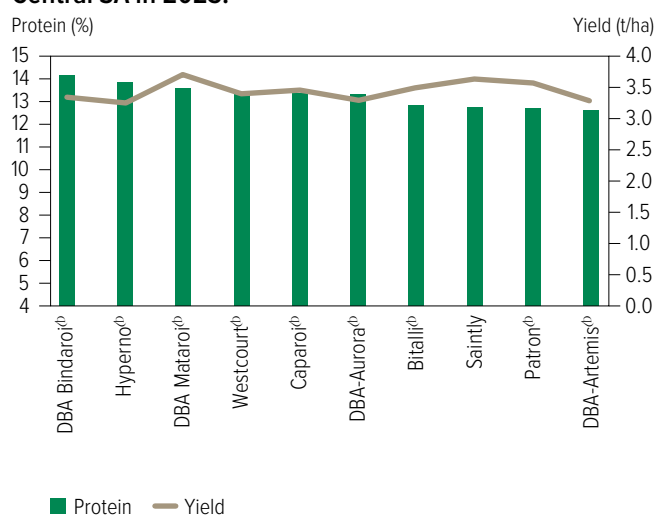
**Figure 1: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from seven NVT sites in Central SA in 2023.**



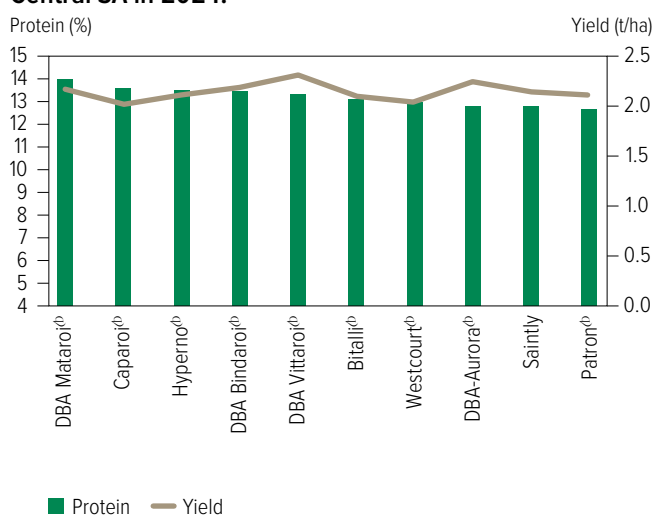
**Figure 2: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from four NVT sites in Central SA in 2024.**



**Figure 3: Protein (%) and yield (t/ha) comparisons for durum wheat varieties from five NVT sites in Central SA in 2023.**



**Figure 4: Protein (%) and yield (t/ha) comparisons for durum wheat varieties from two NVT sites in Central SA in 2024.**



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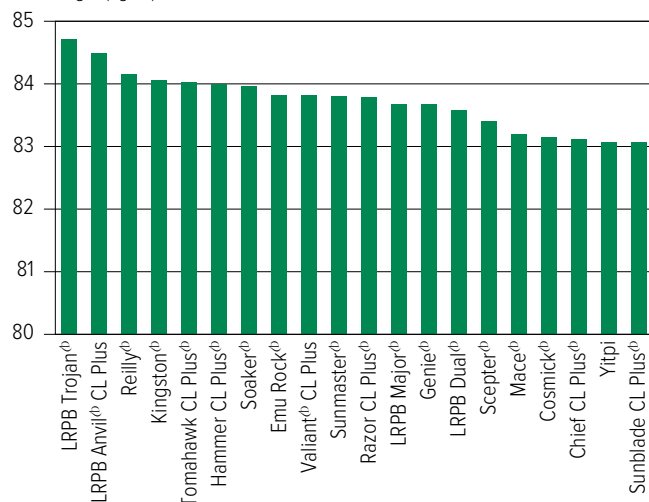
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## Test weight comparisons

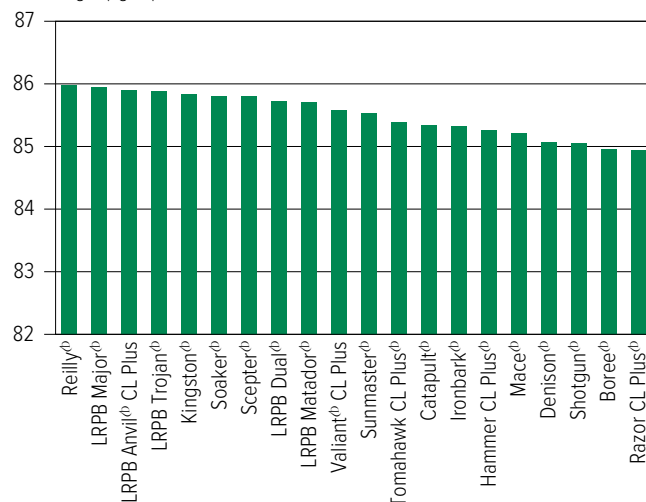
**Figure 5: Test weight (kg/hL) comparisons for main season wheat varieties from seven NVT sites in Central SA in 2023.**

Test weight (kg/hL)



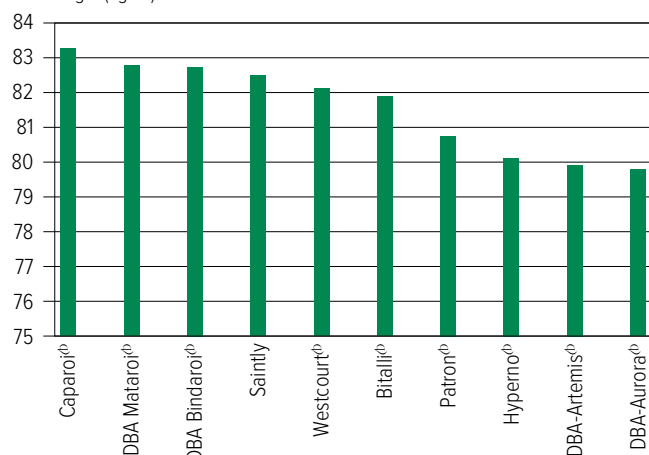
**Figure 6: Test weight (kg/hL) comparisons for main season wheat varieties from four NVT sites in Central SA in 2024.**

Test weight (kg/hL)



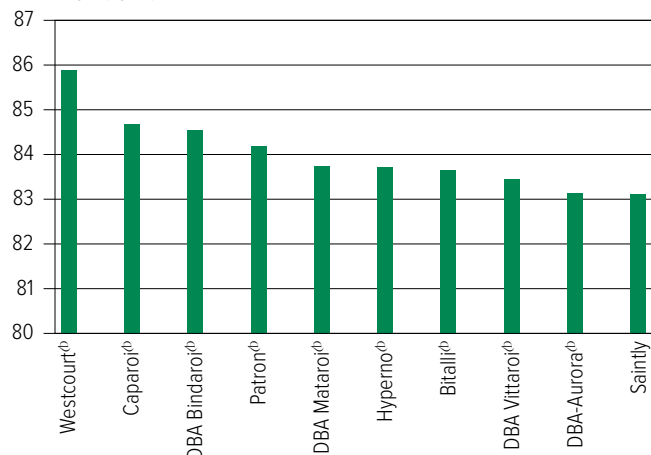
**Figure 7: Test weight (kg/hL) comparisons for durum wheat varieties from five NVT sites in Central SA in 2023.**

Test weight (kg/hL)



**Figure 8: Test weight (kg/hL) comparisons for durum wheat varieties from two NVT sites in Central SA in 2024.**

Test weight (kg/hL)



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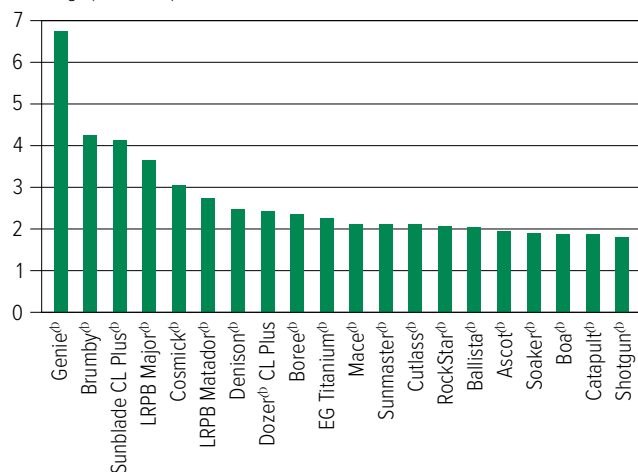
LUPIN



## Screenings comparisons

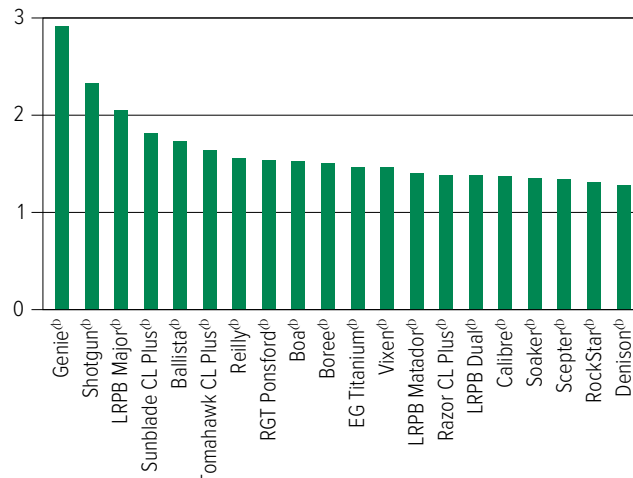
**Figure 9: Screenings (<2.0mm) comparisons for main season wheat varieties from seven NVT sites in Central SA in 2023.**

Screenings (%<2.0mm)



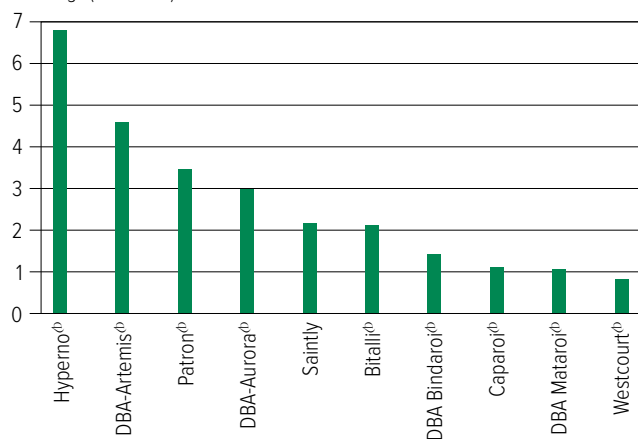
**Figure 10: Screenings (<2.0mm) comparisons for main season wheat varieties from four NVT sites in Central SA in 2024.**

Screenings (%<2.0mm)



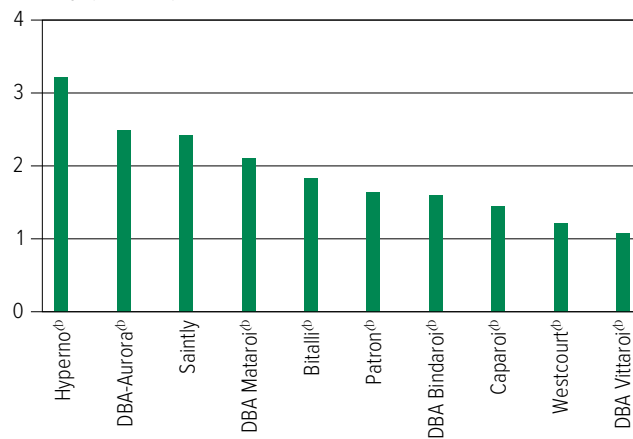
**Figure 11: Screenings (<2.0mm) comparisons for durum wheat varieties from five NVT sites in Central SA in 2023.**

Screenings (%<2.0mm)



**Figure 12: Screenings (<2.0mm) comparisons for durum wheat varieties from two NVT sites in Central SA in 2024.**

Screenings (%<2.0mm)



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## Wheat variety disease ratings – South Australia

The following tables contain varietal ratings for the predominant diseases of wheat in South Australia. These ratings are updated annually by crop pathologists and were released in March 2025.

Selected varieties of most relevance to South Australian growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and tolerance ratings.

Table 18: Wheat disease guide for South Australia.

| Variety                         | Stem rust | Stripe rust<br>(east coast resistance) | Leaf rust | <i>Septoria tritici</i> blotch | Yellow leaf spot | Powdery mildew | RLN resistance<br>( <i>Pratylenchus neglectus</i> ) | RLN resistance<br>( <i>Pratylenchus thornei</i> ) | CCN     | Eyespot | Crown rot | Black point |
|---------------------------------|-----------|--|-----------|--------------------------------|------------------|----------------|---|---|---------|---------|-----------|-------------|
| Anapurna                        | MSS       | RMR                                    | MS        | MRMS                           | MRMS             | RMR            | MS  | S (P)   | MRMS    |         | SVS       | MSS         |
| Ascot <sup>®</sup>              | MRMS      | MSS                                    | RMR       | S                              | MRMS             | S              | S   | S   | MR      | S       | S         | S           |
| Avoca <sup>®</sup>              | MRMS      | MRMS                                   | MSS       | MSS                            | MSS              | MS             | R (P)   | MSS   | S (P)   | S (P)   | MSS (P)   | MRMS (P)    |
| Ballista <sup>®</sup>           | MR        | MSS                                    | S         | SVS                            | MS               | SVS            | S   | MRMS  | MRMS    | S       | S         | MS          |
| Beckom <sup>®</sup>             | MRMS      | MRMS                                   | MSS       | S                              | MSS              | S              | S   | MSS   | R       |         | S         | MRMS        |
| BigRed <sup>®</sup>             | S         | RMR                                    | MRMS      | MR                             | MR               | RMR            | MRMS  | MS  | S       |         | MSS       | MR          |
| Boa <sup>®</sup>                | MS        | MRMS                                   | MR        | S                              | MRMS             | S              | S   | VS  | R (P)   | S (P)   | MSS (P)   | S (P)       |
| Boree <sup>®</sup>              | MR        | SVS                                    | S         | SVS                            | MRMS             | SVS            | S   | MSS   | MSS     |         | S         | S           |
| Brighton <sup>®</sup>           | MRMS      | MRMS                                   | S         | S                              | MRMS             | SVS            | S   | MS  | R       | MSS     | S         | MS          |
| Brumby <sup>®</sup>             | MR        | MS                                     | SVS       | S                              | MRMS             | MSS            | MRMS  | MS  | MRMS    | S       | S         | MSS         |
| Calibre <sup>®</sup>            | MR        | S                                      | S         | S                              | MRMS             | MSS            | S   | MSS   | MRMS    | S       | S         | MSS         |
| Catapult <sup>®</sup>           | MR        | S                                      | S         | MSS                            | MRMS             | S              | S   | MS  | R       | S       | MSS       | S           |
| Chief CL Plus <sup>®</sup>      | MR        | SVS                                    | MR        | S                              | MRMS             | SVS            | MRMS  | MSS   | MS      | MSS     | MSS       | MS          |
| Coolah <sup>®</sup>             | MR        | MSS                                    | RMR       | MSS                            | MSS              | MSS            | S   | MS  | S       |         | MSS       | S           |
| Coota <sup>®</sup>              | RMR       | S                                      | MR        | S                              | MSS              | S              | MR  | MS  | MR      | S       | MSS       | MS          |
| Cutlass <sup>®</sup>            | R         | MSS                                    | RMR       | MSS                            | MSS              | MSS            | MSS   | MSS   | MR      |         | S         | MS          |
| Denison <sup>®</sup>            | MS        | S                                      | S         | MSS                            | MRMS             | S              | S   | S   | MS      | S       | MSS       | MS          |
| Devil <sup>®</sup>              | S         | SVS                                    | SVS       | SVS                            | MRMS             | S              | MSS   | S   | MSS     | S       | MSS       | MSS         |
| Dozer <sup>®</sup> CL Plus      | MS        | S                                      | S         | S                              | MRMS             | S              | MRMS  | S   | MS      | SVS     | S         | MRMS        |
| DS Bennett <sup>®</sup>         | MS        | S                                      | SVS       | MSS                            | MRMS             | R              | S   | S   | S       |         | VS        | MSS         |
| DS Pascal <sup>®</sup>          | MSS       | MRMS                                   | MRMS      | MSS                            | MS               | RMR            | S   | S   | S       |         | S         | MS          |
| EG Jet <sup>®</sup>             | S         | MRMS                                   | MSS       | MSS                            | MRMS             | SVS            | S   | S   | MRMS    |         | S         | MS          |
| EG Titanium <sup>®</sup>        | MS        | MR                                     | MS        | MSS                            | MSS              | S              | MSS   | MSS   | R       | S       | MSS       | MSS         |
| EGA Wedgetail <sup>®</sup>      | MRMS      | MS                                     | MSS       | MSS                            | MSS              | MSS (P)        | S   | VS  | S       |         | S         | MS          |
| Genie <sup>®</sup>              | MRMS      | MSS                                    | S         | S                              | MRMS (P)         | SVS            | MS (P)  | MRMS  | MSS (P) | S (P)   | MS (P)    | MS          |
| Hammer CL Plus <sup>®</sup>     | MR        | MS                                     | S         | MSS                            | MRMS             | S              | MSS   | S   | MRMS    | S       | MSS       | MRMS        |
| Illabo <sup>®</sup>             | MR        | MRMS                                   | S         | MSS                            | MS               | RMR            | MSS   | MSS   | MRMS    | S       | S         | MRMS        |
| Ironbark <sup>®</sup>           | MS        | MR                                     | MRMS      | S                              | MSS              | S              | S   | MR (P)  | MS (P)  | S (P)   | MSS (P)   |             |
| Jillaroo <sup>®</sup>           | MS        | S                                      | S         | S                              | MS               | SVS            | S   | MS (P)  | MS      | S       | S         | MS          |
| Kingston <sup>®</sup>           | S         | MSS                                    | S         | S                              | MSS              | S              | S   | MR  | R       | S       | S         | MSS         |
| Lancelin <sup>®</sup>           | MRMS      | MSS                                    | MSS       | SVS                            | MRMS             | S              | SVS   | MS  | MRMS    | S       | S         | MSS (P)     |
| Longford <sup>®</sup>           | RMR       | RMR                                    | RMR       | MRMS/S                         | MRMS             | RMR            | S   | S   | MS      | MSS (P) | MSS       | MRMS        |
| Longsword <sup>®</sup>          | MR        | MRMS/MS                                | MSS       | MS                             | MRMS             | S              | MRMS  | MRMS  | MRMS    | S       | MSS       | MS          |
| LRPB Anvil <sup>®</sup> CL Plus | MR        | S                                      | SVS       | VS                             | MSS              | SVS            | MSS   | S   | MS      | S       | MSS       | S           |
| LRPB Avenger <sup>®</sup>       | MS        | S                                      | SVS       | S                              | MS               | SVS            | MSS   | MRMS  | MRMS    | S       | S         | MRMS        |
| LRPB Bale <sup>®</sup>          | MRMS      | MRMS                                   | MSS       | MSS                            | SVS              | MRMS           | S   | S   | R       | S       | S         | MS          |
| LRPB Beaufort <sup>®</sup>      | SVS       | RMR                                    | MSS       | S                              | MRMS             | R (P)          | MS  | MSS   | MS      |         | S         | MRMS        |

Continued on next page

Table 18: Wheat disease guide for South Australia (continued).

| Variety                       | Stem rust | Stripe rust<br>(east coast resistance) | Leaf rust | <i>Septoria tritici</i> blotch | Yellow leaf spot | Powdery mildew | RLN resistance<br>( <i>Pratylenchus neglectus</i> ) | RLN resistance<br>( <i>Pratylenchus thornei</i> ) | CCN      | Eyespot | Crown rot | Black point |
|-------------------------------|-----------|--|-----------|--------------------------------|------------------|----------------|---|---|----------|---------|-----------|-------------|
| LRPB Dual <sup>Ⓛ</sup>        | MRMS      | MS                                     | MSS       | MSS                            | S                | S              | MSS   | MSS   | R        | S       | S         | S           |
| LRPB Impala <sup>Ⓛ</sup>      | MR        | MRMS                                   | SVS       | SVS                            | MSS              | MR             | SVS   | S   | MSS      |         | MSS       | MS          |
| LRPB Kittyhawk <sup>Ⓛ</sup>   | MRMS      | MR                                     | MR        | MRMS                           | MRMS             | MS             | S   | S   | S        | S       | SVS       | MRMS        |
| LRPB Major <sup>Ⓛ</sup>       | MRMS      | MRMS                                   | MR        | MSS                            | MS               | MSS            | S   | MSS   | MRMS     | S       | MSS       | MSS         |
| LRPB Matador <sup>Ⓛ</sup>     | MS        | MS                                     | MSS       | S                              | MRMS             | MSS            | S   | MS  | MS (P)   | S (P)   | S         | MRMS (P)    |
| LRPB Nighthawk <sup>Ⓛ</sup>   | RMR       | MR                                     | MS        | MS                             | MS               | SVS            | MSS   | MS  | MS       |         | MSS       | MS          |
| LRPB Optimus <sup>Ⓛ</sup>     | MR        | MRMS                                   | RMR       | S                              | MSS              | MSS            | MSS   | MS  | MS       | S       | MSS       | MS          |
| LRPB Oryx <sup>Ⓛ</sup>        | MR        | MRMS                                   | RMR#      | SVS                            | MSS              | MR             | MSS   | MSS   | S        | S       | MSS       | MS          |
| LRPB Raider <sup>Ⓛ</sup>      | RMR       | MR                                     | RMR       | S                              | MSS              | S              | MSS   | MS  | S        |         | S         | MSS         |
| LRPB Scotch <sup>Ⓛ</sup>      | MSS       | MRMS                                   | MR#       | S                              | MRMS             | MR             | MS  | S   | MS       | S       | S         | MS          |
| LRPB Scout <sup>Ⓛ</sup>       | MRMS      | MS                                     | MS        | S                              | SVS              | S              | S   | MSS   | R        |         | S         | S           |
| LRPB Trojan <sup>Ⓛ</sup>      | MRMS      | S                                      | MR        | S                              | MSS              | S              | MSS   | MSS   | MS       | MS      | MS        | MS          |
| Mace <sup>Ⓛ</sup>             | MRMS      | SVS                                    | S         | SVS                            | MRMS             | MSS            | MS  | MS  | MRMS     | S       | S         | MRMS        |
| Mammoth <sup>Ⓛ</sup>          | MR        | MSS                                    | MRMS      | MSS                            | MRMS             | SVS            | MSS   | MRMS  | MSS      | MSS     | S         | MS          |
| Manning <sup>Ⓛ</sup>          | MR        | MR                                     | MSS       | MRMS/S                         | MRMS             | MRMS           | MSS   | S   | S        | MS (P)  | VS        | S           |
| Mowhawk <sup>Ⓛ</sup>          | RMR (P)   |  | MR (P)    | MSS (P)                        | MRMS (P)         | MR             |   |   |          | MSS (P) |           |             |
| Naparoo <sup>Ⓛ</sup>          | MRMS      | MRMS                                   | MS        | S                              | MRMS             | MR (P)         | SVS   | S   |          |         | S         |             |
| Packer <sup>Ⓛ</sup>           | MR        | MRMS                                   | MR        | MSS                            | MS               | MSS            | S   | S   | R (P)    | S (P)   | MS (P)    | S (P)       |
| Razor CL Plus <sup>Ⓛ</sup>    | MRMS      | MRMS                                   | S         | SVS                            | MSS              | MSS            | S   | MS  | MR       | S       | S         | MS          |
| Reilly <sup>Ⓛ</sup>           | MRMS      | MS                                     | MSS       | S                              | S                | MSS            | MS  | MSS   | R        | S       | S         | MSS         |
| RGT Accroc <sup>Ⓛ</sup>       | MRMS      | MRMS                                   | S         | MS                             | MRMS             | MRMS           | MS  | MSS   | S        | MSS (P) | SVS       | MRMS        |
| RGT Calabro                   | MS        | MRMS                                   | MS        | MRMS                           | MR               | RMR            | S   | MS  | S        |         | SVS       | MS          |
| RGT Cesario <sup>Ⓛ</sup>      | RMR       | MRMS                                   | RMR       | MRMS                           | MR               | RMR            | MRMS  | MSS   | MSS (P)  |         | VS        | R (P)       |
| RGT Ponsford <sup>Ⓛ</sup>     | RMR       | MS                                     | MR        | MSS                            | MS               | MSS            | MSS   | S   | MRMS     | S       | MSS       | S           |
| RGT Waugh <sup>Ⓛ</sup>        | MS        | MR                                     | S         | MRMS#                          | MRMS             | RMR            | MSS   | MSS   | MS       |         | S         | MRMS        |
| RGT Zanzibar                  | VS        | RMR                                    | SVS       | MSS                            | MS               | RMR            | S   | MS (P)  | MSS      |         | S         | MRMS        |
| RockStar <sup>Ⓛ</sup>         | MRMS      | S                                      | S         | S                              | MRMS             | SVS            | MRMS  | MS  | MSS      | S       | S         | MSS         |
| Scepter <sup>Ⓛ</sup>          | MRMS      | S                                      | MSS       | S                              | MRMS             | SVS            | S   | MSS   | MRMS     | S       | MSS       | MS          |
| Severn <sup>Ⓛ</sup>           | MRMS      | MR                                     | MR        | MSS                            | MRMS             | RMR            | S   | MRMS  | MSS (P)  |         | S         | MR          |
| Sheriff CL Plus <sup>Ⓛ</sup>  | MS        | SVS                                    | SVS       | S                              | MRMS             | SVS            | MRMS  | MS  | MS       | S       | S         | MS          |
| Shotgun <sup>Ⓛ</sup>          | MRMS      | MSS                                    | MSS       | S (P)                          | MRMS             | S              | MS (P)  | MRMS  | R (P)    | S (P)   | MS (P)    | S (P)       |
| Soaker <sup>Ⓛ</sup>           | MRMS      | S                                      | MSS       | S                              | MRMS             | S              | S   | S   | MRMS (P) | S (P)   | MS (P)    |             |
| Stockade <sup>Ⓛ</sup>         | MS        | MR                                     | MR        | MS                             | MRMS             | SVS            | S   | MSS   | MRMS     | MSS (P) | S         | MRMS        |
| Sunblade CL Plus <sup>Ⓛ</sup> | MS        | MRMS                                   | MSS       | S                              | MSS              | S              | MSS   | MRMS  | MSS      |         | S         | MRMS        |
| Sunflex <sup>Ⓛ</sup>          | MR        | MRMS                                   | RMR       | SVS                            | MS               | S              | S   | MSS   | MS       |         | MSS       | MSS         |
| Sunmaster <sup>Ⓛ</sup>        | MS        | MRMS                                   | RMR       | S                              | MSS              | S              | MRMS  | MS  | MSS      |         | MSS       | MR          |
| Tomahawk CL Plus <sup>Ⓛ</sup> | MR        | S                                      | S         | S                              | MRMS             | SVS            | S   | MS  | MRMS     | S       | MSS       | S           |
| Triple 2 <sup>Ⓛ</sup>         | MR (P)    | RMR (P)                                | MRMS      | MR                             | MR (P)           | MRMS           | R (P)   | MR  | MS (P)   |         | MRMS (P)  | S (P)       |
| Valiant <sup>Ⓛ</sup> CL Plus  | MRMS      | S                                      | S         | MSS                            | MRMS             | VS             | S   | S (P)   | MSS (P)  | MSS     | MSS       | MRMS        |
| Vixen <sup>Ⓛ</sup>            | MRMS      | SVS                                    | SVS       | S                              | MRMS             | SVS            | MRMS  | MS  | MSS      | S       | S         | MSS         |
| Wallaroo <sup>Ⓛ</sup>         | RMR       | RMR                                    | RMR       | MSS                            | MRMS             | S              | MS  | MRMS  | R        | S       | MSS       | MS          |
| Willaura <sup>Ⓛ</sup>         | MR        | S                                      | MRMS      | S                              | MS               | SVS            | MSS   | MRMS  | MS       | MSS (P) | S         | MRMS        |
| Yitpi                         | S         | MS                                     | MSS       | S                              | SVS              | MS             | MSS   | S   | MR       |         | S         | MS          |
| Zen <sup>Ⓛ</sup>              | S (MRMS)  | S                                      | S         | S                              | MRMS             | MSS            | MRMS  | S   | S        |         | S         | MRMS        |

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Table 18: Wheat disease guide for South Australia (continued).

| Variety                    | Stem rust | Stripe rust<br>(east coast resistance) | Leaf rust | <i>Septoria tritici</i> blotch | Yellow leaf spot | Powdery mildew | RLN resistance<br>( <i>Pratylenchus neglectus</i> ) | RLN resistance<br>( <i>Pratylenchus thornei</i> ) | CCN      | Eyespot | Crown rot | Black point |
|----------------------------|-----------|--|-----------|--------------------------------|------------------|----------------|---|---|----------|---------|-----------|-------------|
| <b>DURUM</b>               |           |  |           |                                |                  |                |   |   |          |         |           |             |
| Bitalli <sup>db</sup>      | RMR       | MRMS                                   | MR        | MSS                            | MRMS             | S              | MSS   | RMR   | MSS      |         | SVS       | MS          |
| Caparoi <sup>db</sup>      | MR        | MRMS                                   | RMR       | MRMS/S                         | MRMS             | S              | MS  | MR  | MRMS (P) |         | VS        | MSS         |
| DBA Bindaroi <sup>db</sup> | MR        | MRMS                                   | RMR       | MS                             | MS               | S              | MRMS  | MR  | MS       |         | SVS       | MRMS        |
| DBA Lillaro <sup>db</sup>  | RMR       | MRMS                                   | RMR       | S                              | MRMS             | S              | MRMS  | RMR   | S        |         | SVS       | MS          |
| DBA Mataroi <sup>db</sup>  | MRMS      | MRMS                                   | MR        | MSS                            | MRMS             | S              | MS  | RMR   | MRMS     |         | SVS       | MS          |
| DBA Vittaro <sup>db</sup>  | MR        | MRMS                                   | RMR       | MSS                            | MRMS             | MSS            | MS  | MR  | S        |         | SVS       | MSS         |
| DBA-Aurora <sup>db</sup>   | RMR       | MR                                     | RMR       | MRMS/S                         | MRMS             | MSS            | MRMS  | RMR   | MSS      |         | SVS       | MS          |
| Hyperno <sup>db</sup>      | RMR       | MRMS                                   | RMR       | MS                             | MRMS             | MSS            | MS  | RMR   | MS       |         | SVS       | MS          |
| Jandaroi <sup>db</sup>     | MRMS (R)  | MRMS                                   | RMR       | MSS                            | MRMS             | S (P)          | MS  | MRMS  | MS       |         | VS        | MS          |
| Patron <sup>db</sup>       | RMR       | MRMS                                   | RMR       | MRMS                           | MRMS             | S              | MRMS  | MR  | S        |         | SVS       | MSS         |
| Saintly                    | MS        | MRMS                                   | RMR       | MRMS/S                         | MRMS             | S (P)          | MS  | RMR   | MS       |         | VS (P)    | MS          |
| Westcourt <sup>db</sup>    | RMR       | MR                                     | RMR       | S                              | MRMS             | MSS            | MS  | MR  | MSS      |         | VS        | MSS         |

Learn more via the [NVT Disease Ratings](#).

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible,

T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant,

(P) = provisional rating, - hyphen indicates a range, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes,

^ line contains a few susceptible off types, ( ) show outlier.

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## Wheat variety maturity

The wheat-breeding members of Australian Crop Breeders have developed a consistent approach to the description of wheat variety maturity (relative heading date).

**Table 19: An industry guide for wheat variety maturity description.**

| Maturity description | Abbreviation | Quick wheat boundary   | Slow wheat boundary  |
|----------------------|--------------|--|--|
| SPRING WHEAT         |              |  |  |
| Very quick           | VQ           |  | Axe <sup>db</sup>  |
| Very quick-quick     | VQ-Q         | > Axe <sup>db</sup>  | Vixen <sup>db</sup>  |
| Quick                | Q            | > Vixen <sup>db</sup>  | Corack <sup>db</sup> /LRPB Mustang <sup>db</sup>                                     |
| Quick-mid            | Q-M          | > Corack <sup>db</sup> /LRPB Mustang <sup>db</sup>                                     | Mace <sup>db</sup> /Suntop <sup>db</sup>   |
| Mid                  | M            | > Mace <sup>db</sup> /Suntop <sup>db</sup>   | LRPB Reliant <sup>db</sup> /Sheriff CL Plus <sup>db</sup> /LRPB Trojan <sup>db</sup> |
| Mid-slow             | M-S          | > LRPB Reliant <sup>db</sup> /Sheriff CL Plus <sup>db</sup> /LRPB Trojan <sup>db</sup> | Yitpi/EGA Gregory <sup>db</sup>  |
| Slow                 | S            | > Yitpi/EGA Gregory <sup>db</sup>  | Sunzell  |
| Slow-very slow       | S-VS         | > Sunzell  | Sunmax <sup>db</sup>   |
| Very slow            | VS           | > Sunmax <sup>db</sup>   |  |
| WINTER WHEAT         |              |  |  |
| Quick                | Q            |  | Illabo <sup>db</sup>   |
| Mid                  | M            | > Illabo <sup>db</sup>   | RGT Accroc <sup>db</sup>   |
| Slow                 | S            | > RGT Accroc <sup>db</sup>   |  |

Source: [Australian Crop Breeders Ltd](#)

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## Wheat optimum time of sowing – an example for Central South Australia

To achieve flowering in the ideal window and maximise yield, the optimum time of sowing is based on a combination of variety maturity and environment.

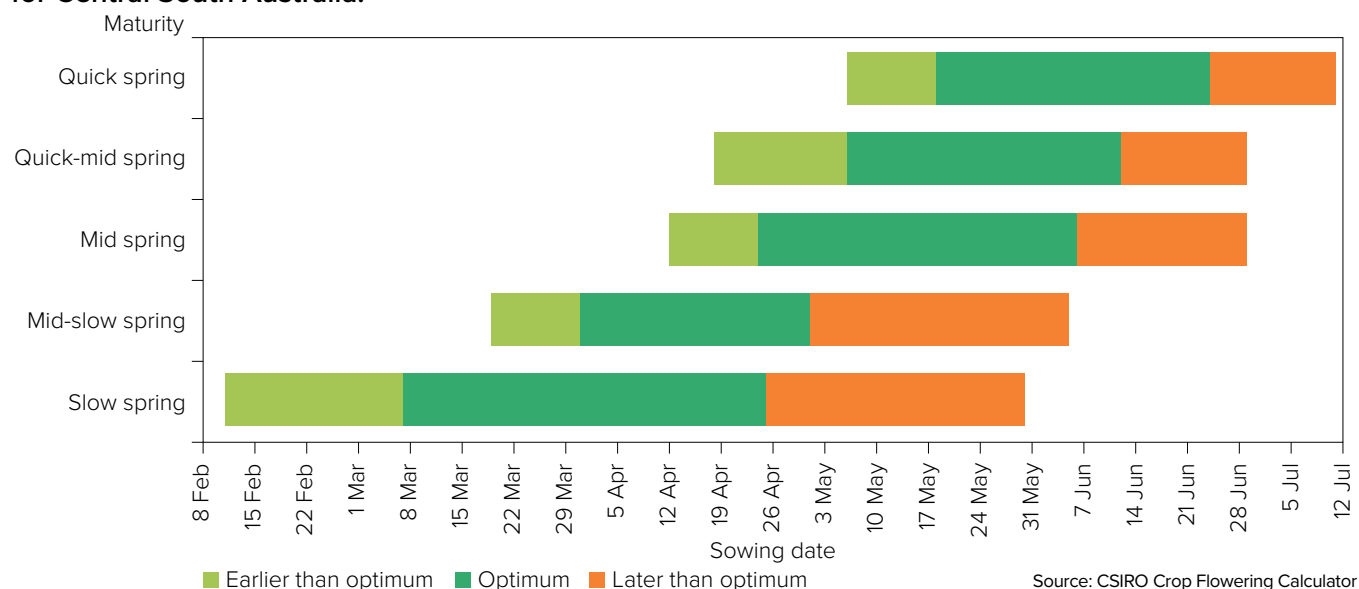
Growers and advisers are encouraged to use the [Crop Flowering Calculator](#) to compare the impact of specific variety selection and sowing date for the ideal flowering window at their own location. The Crop Flowering Calculator is a simple phenology (maturity) model that uses 60 years of local weather data to calculate a range of possible flowering dates for a specific environment for wheat, barley and canola.

The Crop Flowering Calculator helps optimise sowing programs by finding the variety or sowing time that best matches the optimal flowering window for a specific location. Select a location and crop type and then either 'Find a Variety' (to match a fixed sowing date), or find 'When to Sow' (to match a fixed variety).

This time of sowing guide (Figure 13) is automatically generated from the database that underpins the Crop Flowering Calculator. The guide presents the optimal sowing windows for generic varieties for a single location.

The Crop Flowering Calculator integrates the scientific outputs from several GRDC projects and Initiatives (CSP00187, CSP1901-002RTX, UOM1806-001RTX and CSP2206-012RTX) and brings together the diverse aspects of crop phenology (genetics, physiology and agronomy). This tool has been supported by CSIRO in partnership with GRDC through CSP2206-012RTX.

**Figure 13: Optimum time of sowing by variety maturity for Hart as an example for Central South Australia.**



**Disclaimer:** This Crop Flowering Calculator is a work in progress and is still undergoing development. The results provided have not yet been fully validated and should be interpreted with caution and used at your own discretion.

# BARLEY

## New barley varieties

The following information is for barley varieties released in the 12 months to the date when the MET analysis was published on NVT online. Please go to [nvt.grdc.com.au](http://nvt.grdc.com.au) to find trial results for any new varieties released since the publication of this harvest report.

| Variety                   | Breeding company                      | Grain classification  | End point royalty* (\$) | Comments supplied by breeding company <sup>1</sup>  |
|---------------------------|---------------------------------------|-----------------------|-------------------------|---|
| Bigfoot CL <sup>Ⓢ</sup>   | Australian Grain Technologies Pty Ltd | FEED                  | 4.35                    | Bigfoot CL <sup>Ⓢ</sup> is very similar to popular northern variety Yeti <sup>Ⓢ</sup> but tolerant to Clearfield® Intervix® herbicide. It has good grain size and test weight, having a short stature and lower risk of lodging. It is feed quality only. Bigfoot CL <sup>Ⓢ</sup> has a quick-mid spring maturity.                    |
| Granite <sup>Ⓢ</sup> CL   | InterGrain Pty Ltd                    | FEED                  | 3.90                    | Granite <sup>Ⓢ</sup> CL is a new Clearfield® feed barley for low to medium rainfall barley producing areas across Australia. Granite <sup>Ⓢ</sup> CL provides a significant yield improvement over Rosalind <sup>Ⓢ</sup> with the added benefit of herbicide tolerance. Granite <sup>Ⓢ</sup> CL has a quick-mid spring maturity.      |
| PegasusAX <sup>Ⓢ</sup>    | Australian Grain Technologies Pty Ltd | FEED                  | 4.15                    | PegasusAX <sup>Ⓢ</sup> carries CoAXium herbicide tolerance (Aggressor® AX herbicide) and is a derivative of Rosalind <sup>Ⓢ</sup> , with a similar plant type. It has similar grain size as some other high-yielding feed varieties and is feed quality only. PegasusAX <sup>Ⓢ</sup> has a quick-mid spring maturity.                 |
| RGT Atlantis <sup>Ⓢ</sup> | RAGT                                  | Under malt evaluation | 4.25                    | RGT Atlantis <sup>Ⓢ</sup> is a new waterlogging-tolerant barley with high yield potential in the medium to high-rainfall zones. It is bred from RGT Planet <sup>Ⓢ</sup> and has a similar maturity. It is the same plant structure and height as RGT Planet <sup>Ⓢ</sup> . RGT Atlantis <sup>Ⓢ</sup> has a quick-mid spring maturity. |
| Spinnaker <sup>Ⓢ</sup>    | Secobra Recherches                    | Under malt evaluation | 4.00                    | Spinnaker <sup>Ⓢ</sup> has (Fathom <sup>Ⓢ</sup> x RGT Planet <sup>Ⓢ</sup> ) x European malt breeding line heritage. It is two to three days earlier maturing than RGT Planet <sup>Ⓢ</sup> with a May planting and has slightly shorter plant height than RGT Planet <sup>Ⓢ</sup> .  |

\*EPR amount is ex-GST, <sup>Ⓢ</sup>denotes Plant Breeder's Rights apply. <sup>1</sup>All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder. Grain classification downloaded from [Grains Australia](http://Grains Australia) on 14/3/2025.

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Refer to the latest *Crop Sowing Guide* for further information at [nvt.grdc.com.au/resources/crop-sowing-guides](http://nvt.grdc.com.au/resources/crop-sowing-guides)

## Barley variety yield performance – Central South Australia

Yield results are presented from the top-performing varieties within each NVT location in the region for the past five seasons. Results are presented (as a percentage) for each variety relative to the mean trial yield for the location within each year. Varieties are listed in descending order of average yield over the period.

The Long Term Yield Reporter provides additional information on varieties not listed and can be viewed as a table or chart with error bars. Rainfall is provided for January to March (J–M) and April to October (A–O) and, where relevant, irrigation from April to October.

**Table 1: Brentwood main season barley.**

| Year                       | 2020   | 2021   | 2022  | 2023  | 2024 |
|----------------------------|--------|--------|-------|-------|------|
| Mean yield (t/ha)          | 3.25   | 5.31   | 5.98  | 4.02  |      |
| Neo <sup>db</sup> CL*      |        |        |       | 107   |      |
| Combat <sup>db</sup>       |        | 117    | 107   | 105   |      |
| Cyclops <sup>db</sup>      | 116    | 112    | 107   | 103   |      |
| Bigfoot CL <sup>db*</sup>  |        |        |       | 106   |      |
| Minotaur <sup>db</sup>     | 116    | 107    | 108   | 103   |      |
| Yeti <sup>db</sup>         | 111    | 103    | 106   | 109   |      |
| Laperouse <sup>db</sup>    | 115    | 104    | 104   | 103   |      |
| Rosalind <sup>db</sup>     | 103    | 103    | 106   | 107   |      |
| Leabrook <sup>db</sup>     | 104    | 109    | 102   | 103   |      |
| Maximus <sup>db</sup> CL*  | 106    | 101    | 103   | 108   |      |
| Beast <sup>db</sup>        | 100    | 107    | 101   | 106   |      |
| Titan AX <sup>db*</sup>    |        |        | 100   | 98    |      |
| Spinnaker <sup>db</sup>    |        | 101    | 106   | 103   |      |
| Compass <sup>db</sup>      | 97     | 105    | 98    | 102   |      |
| Commodus <sup>db</sup> CL* | 97     | 104    | 97    | 101   |      |
| Sowing date                | 12 May | 25 May | 9 Jun | 9 May |      |
| Rainfall J–M (mm)          | 51     | 51     | 92    | 35    |      |
| Rainfall A–O (mm)          | 285    | 291    | 286   | 234   |      |

No 2024 trial cooperator.

\* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

**Table 2: Bute main season barley.**

| Year                        | 2020   | 2021   | 2022  | 2023   | 2024 |
|-----------------------------|--------|--------|-------|--------|------|
| Mean yield (t/ha)           | 3.31   | 4.14   | 4.30  | 3.89   |      |
| Neo <sup>db</sup> CL*       |        |        |       | 109    |      |
| Bigfoot CL <sup>db*</sup>   |        |        |       | 108    |      |
| Yeti <sup>db</sup>          | 106    | 105    | 114   | 107    |      |
| Minotaur <sup>db</sup>      | 108    | 102    | 111   | 105    |      |
| Laperouse <sup>db</sup>     | 105    | 106    | 108   | 105    |      |
| Cyclops <sup>db</sup>       | 106    | 106    | 106   | 106    |      |
| Combat <sup>db</sup>        |        | 106    | 105   | 105    |      |
| Maximus <sup>db</sup> CL*   | 105    | 102    | 109   | 104    |      |
| Rosalind <sup>db</sup>      | 106    | 99     | 111   | 103    |      |
| Beast <sup>db</sup>         | 99     | 108    | 104   | 105    |      |
| Leabrook <sup>db</sup>      | 99     | 109    | 103   | 105    |      |
| Spinnaker <sup>db</sup>     |        | 96     | 109   | 101    |      |
| Titan AX <sup>db*</sup>     |        |        | 96    | 104    |      |
| Compass <sup>db</sup>       | 95     | 109    | 99    | 103    |      |
| Spartacus CL <sup>db*</sup> | 100    | 101    | 101   | 101    |      |
| Sowing date                 | 15 May | 27 May | 1 Jun | 18 May |      |
| Rainfall J–M (mm)           | 63     | 36     | 70    | 43     |      |
| Rainfall A–O (mm)           | 250    | 234    | 336   | 225    |      |

No 2024 trial cooperator.

\* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

**Table 3: Crystal Brook main season barley.**

| Year                      | 2020  | 2021  | 2022  | 2023   | 2024  |
|---------------------------|-------|-------|-------|--------|-------|
| Mean yield (t/ha)         | 4.47  | 4.49  | 6.74  | 5.29   | 1.24  |
| Neo <sup>db</sup> CL*     |       |       |       | 110    | 85    |
| Combat <sup>db</sup>      |       | 109   | 104   | 111    | 124   |
| Bigfoot CL <sup>db*</sup> |       |       |       | 106    | 112   |
| Granite <sup>db</sup> CL* |       |       |       |        | 115   |
| Cyclops <sup>db</sup>     | 110   | 111   | 100   | 106    | 119   |
| Minotaur <sup>db</sup>    | 111   | 107   | 106   | 104    | 103   |
| Rosalind <sup>db</sup>    | 105   | 102   | 108   | 104    | 106   |
| Yeti <sup>db</sup>        | 104   | 107   | 102   | 104    | 116   |
| Spinnaker <sup>db</sup>   |       | 98    | 112   | 104    | 86    |
| Leabrook <sup>db</sup>    | 100   | 107   | 96    | 107    | 121   |
| Laperouse <sup>db</sup>   | 105   | 107   | 98    | 101    | 111   |
| Beast <sup>db</sup>       | 98    | 107   | 95    | 106    | 128   |
| Maximus <sup>db</sup> CL* | 102   | 105   | 100   | 100    | 118   |
| RGT Planet <sup>db</sup>  | 104   | 95    | 111   | 101    | 78    |
| Fandaga <sup>db</sup>     |       | 97    | 106   | 104    | 91    |
| Sowing date               | 8 May | 1 Jun | 8 Jun | 12 May | 6 Jun |
| Rainfall J–M (mm)         | 89    | 27    | 47    | 24     | 34    |
| Rainfall A–O (mm)         | 335   | 221   | 302   | 237    | 138   |

Special thanks to 2024 trial cooperator.

\* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

**Table 4: Maitland main season barley.**

| Year                       | 2020   | 2021   | 2022   | 2023   | 2024  |
|----------------------------|--------|--------|--------|--------|-------|
| Mean yield (t/ha)          | 5.77   | 6.30   | 6.25   | 5.51   | 4.58  |
| Neo <sup>db</sup> CL*      |        |        |        | 114    | 99    |
| Combat <sup>db</sup>       |        | 113    | 110    | 109    | 112   |
| Minotaur <sup>db</sup>     | 109    | 108    | 108    | 108    | 105   |
| Spinnaker <sup>db</sup>    |        | 105    | 116    | 105    | 94    |
| RGT Planet <sup>db</sup>   | 117    | 105    | 117    | 102    | 90    |
| Cyclops <sup>db</sup>      | 103    | 109    | 101    | 109    | 113   |
| Fandaga <sup>db</sup>      |        | 105    | 114    | 99     | 95    |
| Zena <sup>db</sup> CL*     |        | 103    | 114    | 101    | 90    |
| Rosalind <sup>db</sup>     | 104    | 104    | 104    | 110    | 103   |
| Granite <sup>db</sup> CL*  |        |        |        |        | 109   |
| Bigfoot CL <sup>db*</sup>  |        |        |        | 107    | 109   |
| PegasusAX <sup>db*</sup>   |        |        |        |        | 99    |
| RGT Atlantis <sup>db</sup> |        |        |        | 98     | 85    |
| Laperouse <sup>db</sup>    | 96     | 101    | 94     | 104    | 108   |
| Bottler <sup>db</sup>      | 110    | 98     | 108    | 93     | 88    |
| Sowing date                | 11 May | 14 May | 19 May | 12 May | 6 Jun |
| Rainfall J–M (mm)          | 47     | 71     | 97     | 58     | 23    |
| Rainfall A–O (mm)          | 344    | 219    | 417    | 278    | 198   |

Special thanks to 2024 trial cooperator, Peter Klopp Farming.

\* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN



Table 5: Minlaton main season barley.

| Year                      | 2020     | 2021     | 2022     | 2023     | 2024   |
|---------------------------|----------|----------|----------|----------|--------|
| Mean yield (t/ha)         |          |          |          |          | 3.74   |
| Neo <sup>db</sup> CL*     | No trial | No trial | No trial | No trial | 126    |
| Granite <sup>db</sup> CL* |          |          |          |          | 119    |
| Yeti <sup>db</sup>        |          |          |          |          | 117    |
| Bigfoot CL <sup>db*</sup> |          |          |          |          | 117    |
| Maximus <sup>db</sup> CL* |          |          |          |          | 111    |
| Laperouse <sup>db</sup>   |          |          |          |          | 110    |
| Minotaur <sup>db</sup>    |          |          |          |          | 110    |
| Rosalind <sup>db</sup>    |          |          |          |          | 110    |
| Beast <sup>db</sup>       |          |          |          |          | 108    |
| Leabrook <sup>db</sup>    |          |          |          |          | 107    |
| Cyclops <sup>db</sup>     |          |          |          |          | 107    |
| Spinnaker <sup>db</sup>   |          |          |          |          | 106    |
| Combat <sup>db</sup>      |          |          |          |          | 106    |
| PegasusAX <sup>db*</sup>  |          |          |          |          | 105    |
| Compass <sup>db</sup>     |          |          |          |          | 104    |
| Sowing date               |          |          |          |          | 30 May |
| Rainfall J–M (mm)         |          |          |          |          | 28     |
| Rainfall A–O (mm)         |          |          |          |          | 145    |

Special thanks to 2024 trial cooperator.

\* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 6: Paskeville main season barley.

| Year                       | 2020     | 2021     | 2022     | 2023     | 2024  |
|----------------------------|----------|----------|----------|----------|-------|
| Mean yield (t/ha)          |          |          |          |          | 4.59  |
| Combat <sup>db</sup>       | No trial | No trial | No trial | No trial | 112   |
| Cyclops <sup>db</sup>      |          |          |          |          | 107   |
| Leabrook <sup>db</sup>     |          |          |          |          | 106   |
| Titan AX <sup>db*</sup>    |          |          |          |          | 106   |
| Beast <sup>db</sup>        |          |          |          |          | 106   |
| Compass <sup>db</sup>      |          |          |          |          | 104   |
| Neo <sup>db</sup> CL*      |          |          |          |          | 104   |
| Fathom <sup>db</sup>       |          |          |          |          | 104   |
| Fandaga <sup>db</sup>      |          |          |          |          | 103   |
| Minotaur <sup>db</sup>     |          |          |          |          | 103   |
| Granite <sup>db</sup> CL*  |          |          |          |          | 103   |
| Bigfoot CL <sup>db*</sup>  |          |          |          |          | 103   |
| Commodus <sup>db</sup> CL* |          |          |          |          | 103   |
| Rosalind <sup>db</sup>     |          |          |          |          | 103   |
| Buff <sup>db</sup>         |          |          |          |          | 103   |
| Sowing date                |          |          |          |          | 3 Jun |
| Rainfall J–M (mm)          |          |          |          |          | 21    |
| Rainfall A–O (mm)          |          |          |          |          | 152   |

Special thanks to 2024 trial cooperator.

\* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 7: Pinery main season barley.

| Year                       | 2020     | 2021     | 2022     | 2023     | 2024   |
|----------------------------|----------|----------|----------|----------|--------|
| Mean yield (t/ha)          |          |          |          |          | 2.56   |
| Combat <sup>db</sup>       | No trial | No trial | No trial | No trial | 116    |
| Leabrook <sup>db</sup>     |          |          |          |          | 115    |
| Compass <sup>db</sup>      |          |          |          |          | 115    |
| Titan AX <sup>db*</sup>    |          |          |          |          | 115    |
| Beast <sup>db</sup>        |          |          |          |          | 115    |
| Commodus <sup>db</sup> CL* |          |          |          |          | 112    |
| Cyclops <sup>db</sup>      |          |          |          |          | 109    |
| Fathom <sup>db</sup>       |          |          |          |          | 109    |
| Yeti <sup>db</sup>         |          |          |          |          | 107    |
| Bigfoot CL <sup>db*</sup>  |          |          |          |          | 107    |
| Granite <sup>db</sup> CL*  |          |          |          |          | 106    |
| Buff <sup>db</sup>         |          |          |          |          | 106    |
| Laperouse <sup>db</sup>    |          |          |          |          | 104    |
| La Trobe <sup>db</sup>     |          |          |          |          | 104    |
| Minotaur <sup>db</sup>     |          |          |          |          | 103    |
| Sowing date                |          |          |          |          | 30 May |
| Rainfall J–M (mm)          |          |          |          |          | 13     |
| Rainfall A–O (mm)          |          |          |          |          | 184    |

Special thanks to 2024 trial cooperator, Nine Mile Farm.

\* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 8: Port Clinton main season barley.

| Year                       | 2020   | 2021   | 2022  | 2023  | 2024     |
|----------------------------|--------|--------|-------|-------|----------|
| Mean yield (t/ha)          | 3.42   | 3.72   | 6.26  | 3.46  |          |
| Combat <sup>db</sup>       |        | 117    | 109   | 116   | No trial |
| Neo <sup>db</sup> CL*      |        |        |       | 113   |          |
| Leabrook <sup>db</sup>     | 108    | 120    | 101   | 112   |          |
| Titan AX <sup>db*</sup>    |        |        | 98    | 108   |          |
| Cyclops <sup>db</sup>      | 113    | 115    | 100   | 106   |          |
| Minotaur <sup>db</sup>     | 110    | 107    | 104   | 105   |          |
| Bigfoot CL <sup>db*</sup>  |        |        |       | 107   |          |
| Fandaga <sup>db</sup>      |        | 99     | 111   | 106   |          |
| Beast <sup>db</sup>        | 104    | 115    | 97    | 110   |          |
| Compass <sup>db</sup>      | 102    | 117    | 97    | 109   |          |
| Spinnaker <sup>db</sup>    |        | 95     | 111   | 105   |          |
| Commodus <sup>db</sup> CL* | 101    | 114    | 96    | 106   |          |
| Rosalind <sup>db</sup>     | 101    | 99     | 104   | 106   |          |
| Yeti <sup>db</sup>         | 103    | 108    | 97    | 105   |          |
| RGT Planet <sup>db</sup>   | 99     | 90     | 111   | 102   |          |
| Sowing date                | 15 May | 25 May | 2 Jun | 8 May |          |
| Rainfall J–M (mm)          | 9      | 42     | 115   | 53    |          |
| Rainfall A–O (mm)          | 273    | 217    | 291   | 170   |          |

No 2024 trial cooperator.

\* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

Table 9: Salter Springs main season barley.

| Year                       | 2020   | 2021              | 2022   | 2023  | 2024  |
|----------------------------|--------|-------------------|--------|-------|-------|
| Mean yield (t/ha)          | 5.31   |                   | 6.39   | 6.16  | 1.13  |
| Neo <sup>db</sup> CL*      |        | Compromised trial |        | 113   | 83    |
| Combat <sup>db</sup>       |        |                   | 111    | 110   | 144   |
| Spinnaker <sup>db</sup>    |        |                   | 122    | 108   | 90    |
| RGT Planet <sup>db</sup>   | 109    |                   | 125    | 108   | 72    |
| Fandaga <sup>db</sup>      |        |                   | 121    | 109   | 78    |
| Zena <sup>db</sup> CL*     |        |                   | 122    | 106   | 77    |
| Rosalind <sup>db</sup>     | 104    |                   | 107    | 103   | 143   |
| RGT Atlantis <sup>db</sup> |        |                   |        | 104   | 51    |
| Minotaur <sup>db</sup>     | 105    |                   | 104    | 104   | 110   |
| PegasusAX <sup>db*</sup>   |        |                   |        |       | 128   |
| Cyclops <sup>db</sup>      | 104    |                   | 95     | 102   | 133   |
| Granite <sup>db</sup> CL*  |        |                   |        |       | 156   |
| Bigfoot CL <sup>db*</sup>  |        |                   |        | 101   | 119   |
| Leabrook <sup>db</sup>     | 98     |                   | 94     | 102   | 105   |
| Alestar <sup>db</sup>      | 98     |                   | 105    | 98    | 60    |
| Sowing date                | 16 May | 21 May            | 14 Jun | 6 Jun | 4 Jun |
| Rainfall J–M (mm)          | 44     | 42                | 75     | 51    | 12    |
| Rainfall A–O (mm)          | 370    | 346               | 446    | 275   | 216   |

Special thanks to 2024 trial cooperator, Andrew Chapman.

\* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 10: Spalding main season barley.

| Year                       | 2020   | 2021   | 2022  | 2023   | 2024  |
|----------------------------|--------|--------|-------|--------|-------|
| Mean yield (t/ha)          | 5.65   | 4.68   | 9.10  | 5.92   | 3.63  |
| Neo <sup>db</sup> CL*      |        |        |       | 109    | 99    |
| Combat <sup>db</sup>       |        | 116    | 105   | 110    | 113   |
| Spinnaker <sup>db</sup>    |        | 102    | 113   | 102    | 98    |
| RGT Planet <sup>db</sup>   | 117    | 100    | 112   | 98     | 96    |
| Minotaur <sup>db</sup>     | 105    | 109    | 107   | 106    | 102   |
| Fandaga <sup>db</sup>      |        | 102    | 109   | 99     | 103   |
| Bigfoot CL <sup>db*</sup>  |        |        |       | 108    | 104   |
| Zena <sup>db</sup> CL*     |        | 98     | 110   | 98     | 95    |
| Cyclops <sup>db</sup>      | 99     | 113    | 99    | 108    | 107   |
| Leabrook <sup>db</sup>     | 94     | 105    | 105   | 106    | 112   |
| Rosalind <sup>db</sup>     | 102    | 105    | 103   | 105    | 101   |
| Granite <sup>db</sup> CL*  |        |        |       |        | 102   |
| RGT Atlantis <sup>db</sup> |        |        |       | 95     | 90    |
| Titan AX <sup>db*</sup>    |        |        | 101   | 104    | 112   |
| Yeti <sup>db</sup>         | 91     | 104    | 101   | 107    | 103   |
| Sowing date                | 16 May | 31 May | 2 Jun | 11 May | 5 Jun |
| Rainfall J–M (mm)          | 67     | 31     | 52    | 38     | 33    |
| Rainfall A–O (mm)          | 425    | 318    | 396   | 239    | 169   |

Special thanks to 2024 trial cooperator, Andrew Cootes.

\* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 11: Turretfield main season barley.

| Year                       | 2020   | 2021   | 2022   | 2023   | 2024     |
|----------------------------|--------|--------|--------|--------|----------|
| Mean yield (t/ha)          | 5.48   | 6.87   | 7.51   | 3.32   |          |
| Neo <sup>db</sup> CL*      |        |        |        | 108    | No trial |
| Combat <sup>db</sup>       |        | 106    | 109    | 108    |          |
| Minotaur <sup>db</sup>     | 109    | 107    | 107    | 103    |          |
| Spinnaker <sup>db</sup>    |        | 107    | 109    | 100    |          |
| RGT Planet <sup>db</sup>   | 106    | 106    | 110    | 96     |          |
| Fandaga <sup>db</sup>      |        | 104    | 109    | 101    |          |
| Cyclops <sup>db</sup>      | 109    | 105    | 104    | 105    |          |
| Bigfoot CL <sup>db*</sup>  |        |        |        | 108    |          |
| Zena <sup>db</sup> CL*     |        | 104    | 107    | 96     |          |
| Leabrook <sup>db</sup>     | 99     | 102    | 101    | 114    |          |
| Titan AX <sup>db*</sup>    |        |        | 101    | 112    |          |
| RGT Atlantis <sup>db</sup> |        |        |        | 95     |          |
| Rosalind <sup>db</sup>     | 104    | 102    | 102    | 100    |          |
| Laperouse <sup>db</sup>    | 101    | 102    | 98     | 104    |          |
| Yeti <sup>db</sup>         | 99     | 101    | 96     | 106    |          |
| Sowing date                | 15 May | 26 May | 23 May | 20 Jun |          |
| Rainfall J–M (mm)          | 32     | 43     | 82     | 9      |          |
| Rainfall A–O (mm)          | 285    | 298    | 370    | 224    |          |

No 2024 trial cooperator.

\* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 12: Wokurna main season barley.

| Year                       | 2020     | 2021     | 2022     | 2023     | 2024  |
|----------------------------|----------|----------|----------|----------|-------|
| Mean yield (t/ha)          |          |          |          |          | 4.07  |
| Leabrook <sup>db</sup>     | No trial | No trial | No trial | No trial | 112   |
| Compass <sup>db</sup>      |          |          |          |          | 111   |
| Yeti <sup>db</sup>         |          |          |          |          | 111   |
| Beast <sup>db</sup>        |          |          |          |          | 111   |
| Bigfoot CL <sup>db*</sup>  |          |          |          |          | 111   |
| Titan AX <sup>db*</sup>    |          |          |          |          | 110   |
| Laperouse <sup>db</sup>    |          |          |          |          | 109   |
| Granite <sup>db</sup> CL*  |          |          |          |          | 109   |
| Commodus <sup>db</sup> CL* |          |          |          |          | 109   |
| Maximus <sup>db</sup> CL*  |          |          |          |          | 107   |
| Cyclops <sup>db</sup>      |          |          |          |          | 107   |
| Neo <sup>db</sup> CL*      |          |          |          |          | 106   |
| Combat <sup>db</sup>       |          |          |          |          | 106   |
| Minotaur <sup>db</sup>     |          |          |          |          | 104   |
| Fathom <sup>db</sup>       |          |          |          |          | 103   |
| Sowing date                |          |          |          |          | 4 Jun |
| Rainfall J–M (mm)          |          |          |          |          | 21    |
| Rainfall A–O (mm)          |          |          |          |          | 189   |

Special thanks to 2024 trial cooperator.

\* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

Barley variety quality – Central South Australia

Grain quality for individual varieties varies from site to site and from year to year. However, long-term and across-site trends highlight varieties that can consistently achieve high protein percentage, high test weight or low grain screenings under a wider range of environments.

The following figures show the grain quality trends as histograms from 2023 and 2024 NVT averaged for trials in the Central South Australia region. Only the varieties evaluated at every site are included. These are plotted in order of performance, up to a maximum of 20.

Protein and yield comparisons

Figure 1: Protein (%) and yield (t/ha) comparisons for main season barley varieties from eight NVT sites in Central SA in 2023.

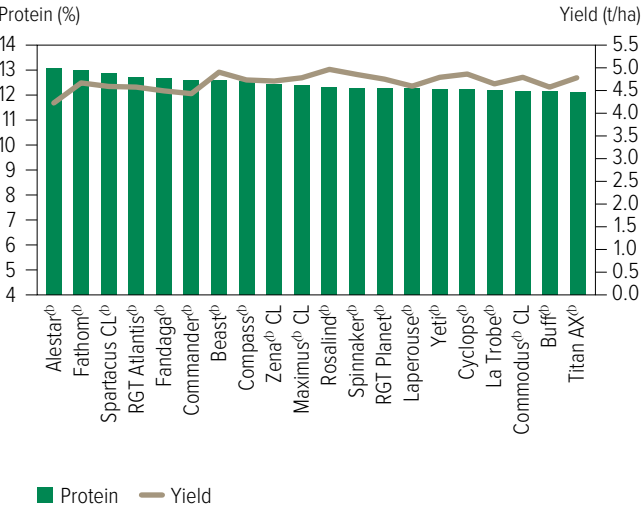
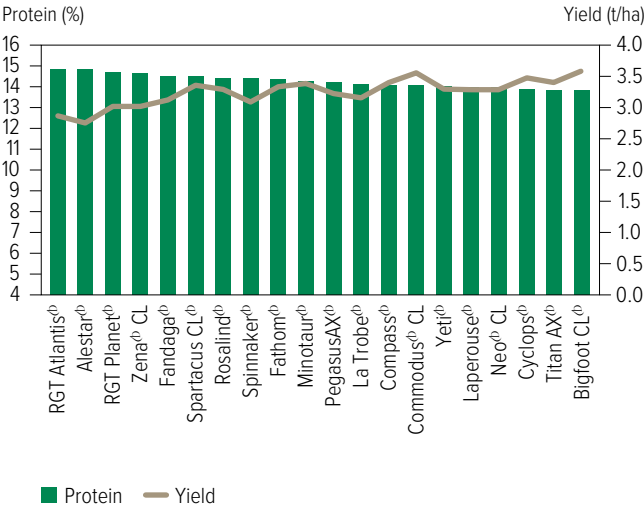


Figure 2: Protein (%) and yield (t/ha) comparisons for main season barley varieties from eight NVT sites in Central SA in 2024.



Test weight comparisons

Figure 3: Test weight (kg/hL) comparisons for main season barley varieties from eight NVT sites in Central SA in 2023.

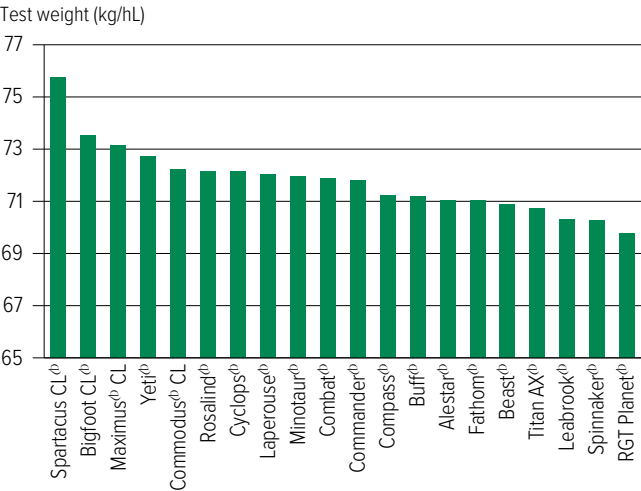
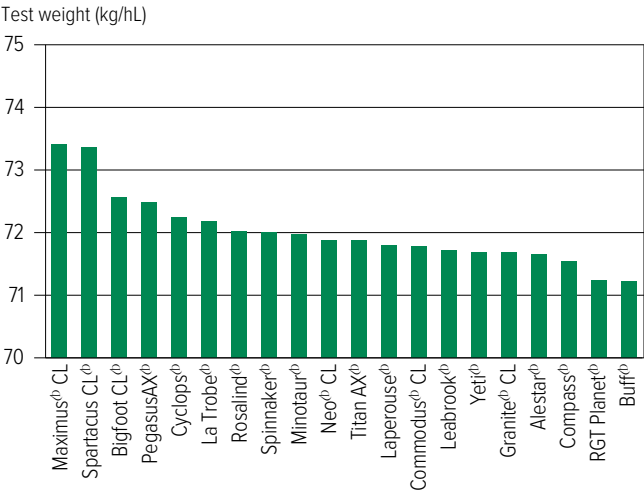


Figure 4: Test weight (kg/hL) comparisons for main season barley varieties from eight NVT sites in Central SA in 2024.



Screenings comparisons

Figure 5: Screenings (<2.2mm) comparisons for main season barley varieties from eight NVT sites in Central SA in 2023.

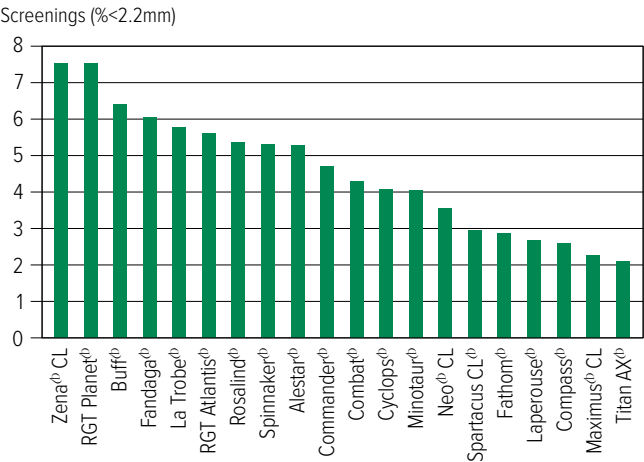
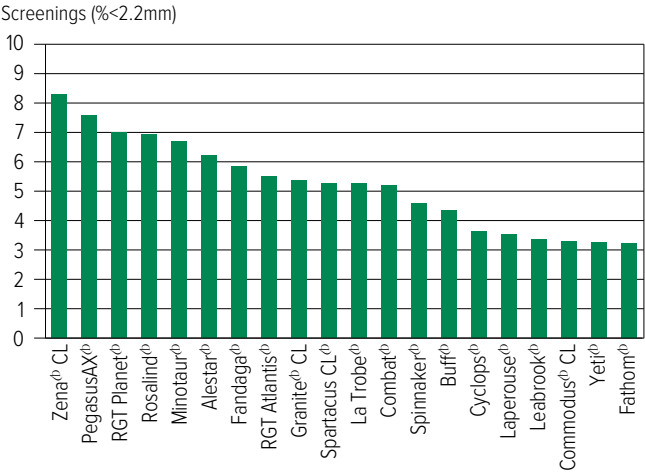


Figure 6: Screenings (<2.2mm) comparisons for main season barley varieties from eight NVT sites in Central SA in 2024.



Retention comparisons

Figure 7: Retention (>2.5mm) comparisons for main season barley varieties from eight NVT sites in Central SA in 2023.

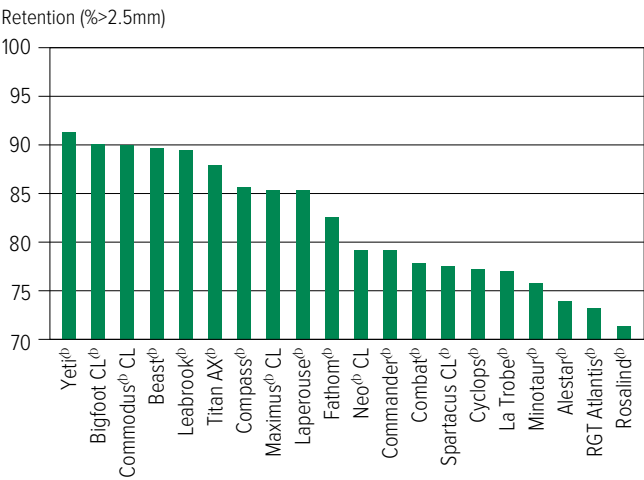
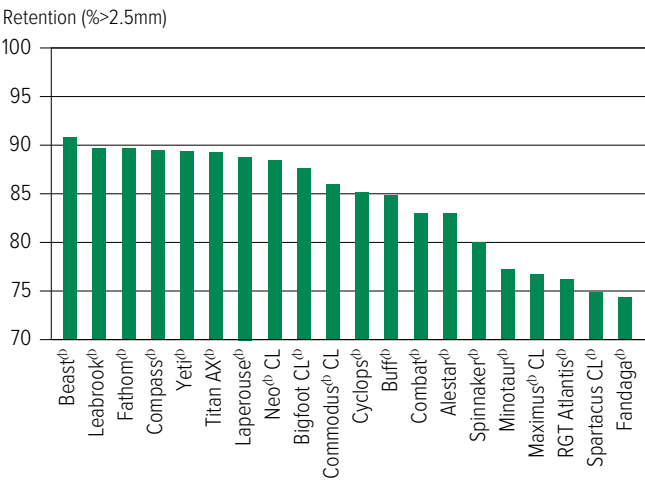


Figure 8: Retention (>2.5mm) comparisons for main season barley varieties from eight NVT sites in Central SA in 2024.





## Barley variety disease ratings – South Australia

The following tables contain varietal ratings for the predominant diseases of barley in South Australia. These ratings are updated annually by crop pathologists and were released in March 2025.

Selected varieties of most relevance to South Australian growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and tolerance ratings.

Table 13: Barley disease guide for South Australia.

| Variety                    | Leaf rust | Net form net blotch | Spot form net blotch | Leaf scald | Ramularia | RLN resistance<br>( <i>Pratylenchus neglectus</i> ) | RLN resistance<br>( <i>Pratylenchus thornei</i> ) | CCN                | Crown rot | Black point | Powdery mildew |
|----------------------------|-----------|---------------------|----------------------|------------|-----------|---|---|--------------------|-----------|-------------|----------------|
| Alestar <sup>db</sup>      | MS        | MRMS-S              | S                    | SVS        | SVS       | MR  | MR  | R <sup>a</sup> (P) | S         | MRMS        | MRMS           |
| Beast <sup>db</sup>        | S         | MRMS-S              | MSS                  | SVS        | SVS       | MRMS  | MRMS  | MR                 | S         | MSS         | S              |
| Bigfoot CL <sup>db</sup>   | S         | MS                  | MSS                  | VS         | SVS       | MR  | RMR (P)   | R                  | MSS (P)   | S (P)       | S              |
| Bottler <sup>db</sup>      | MS        | R-MS                | S                    | SVS        | SVS       | MS  | RMR   |                    | SVS       | MRMS        | RMR            |
| Buff <sup>db</sup>         | SVS       | MR-MS               | S                    | MS-VS      | SVS       | MRMS  | MS  |                    | S         | MS          | S              |
| Combat <sup>db</sup>       | SVS       | MRMS-S              | RMR                  | MS-S       | SVS       | MRMS  | MS  | MR                 | MSS       | MSS         | MSS            |
| Commander <sup>db</sup>    | MSS       | S-VS                | MSS                  | SVS        | SVS       | MRMS  | MRMS  | R                  | S         | MSS         | MSS            |
| Commodus <sup>db</sup> CL  | S         | MRMS-MSS            | MSS                  | MSS-SVS    | SVS       | MRMS  | MRMS  | R                  | S         | MS          | MSS            |
| Compass <sup>db</sup>      | SVS       | MRMS-S              | MS                   | MSS-SVS    | SVS       | MRMS  | MR  | R                  | MSS       | MSS         | S              |
| Cyclops <sup>db</sup>      | SVS       | MR-MS               | MSS                  | S          | SVS       | MRMS  | MRMS  | S                  | MSS       | MSS         | SVS            |
| Fandaga <sup>db</sup>      | S         | MRMS-SVS            | S                    | SVS        | SVS       | MR  | MR  | R                  | MS        | MRMS        | R              |
| Fathom <sup>db</sup>       | MSS       | MSS-SVS             | RMR                  | R-S        | SVS       | MRMS  | MR  | R                  | SVS       | MSS         | MRMS           |
| Flinders <sup>db</sup>     | S         | MSS                 | S                    | MSS-SVS    | SVS       | MRMS  | MR  | S                  | MSS       | MRMS        | MR             |
| Granite <sup>db</sup> CL   | S         | MRMS (P)            | MRMS (P)             | VS (P)     | SVS (P)   |   |   |                    | SVS (P)   |             | SVS (P)        |
| Kiwi                       | MSS       | MRMS-MSS            | MSS                  | SVS        | SVS       | MRMS  | RMR   | S                  | MSS       | MS          | MS             |
| La Trobe <sup>db</sup>     | S         | MS-S                | S                    | R-SVS      | SVS       | MRMS  | MRMS  | R                  | S         | MSS         | S              |
| Laperouse <sup>db</sup>    | S         | MRMS-S              | MRMS                 | SVS        | SVS       | MRMS  | MR  | S                  | S         | MSS         | MSS            |
| Leabrook <sup>db</sup>     | S         | MR-S                | MS                   | MRMS-SVS   | SVS       | MRMS  | RMR   | RMR                | S         | MS          | S              |
| Litmus <sup>db</sup>       | S         | S-VS                | S                    | VS         | SVS       | MS  | MRMS  | MS                 | S         | MS          | MSS            |
| Maximus <sup>db</sup> CL   | S         | MR-MS               | MS                   | R-SVS      | SVS       | MRMS  | MRMS  | R                  | S         | MSS         | S              |
| Minotaur <sup>db</sup>     | SVS       | MR-MS               | S                    | VS         | SVS       | MRMS  | MRMS  | R                  | MSS       | MRMS        | S              |
| Neo <sup>db</sup> CL       | MSS       | MSS                 | MR                   | S          | SVS       | MR  | MRMS  | R                  | VS (P)    | MRMS (P)    | RMR            |
| Newton                     | MS        | MR                  | MS                   | MS         | S         | MRMS  | MRMS  | MSS                | MSS (P)   | MRMS (P)    | RMR            |
| PegasusAX <sup>db</sup>    | MS        | MRMS                | MSS                  | MSS        | SVS       | MR  | MRMS  | R                  | MSS (P)   | MSS (P)     | S              |
| RGT Atlantis <sup>db</sup> | MS        | SVS                 | S                    | VS         | SVS       | MR  | RMR   | R                  | SVS (P)   | MRMS (P)    | R              |
| RGT Planet <sup>db</sup>   | MS        | MSS-SVS             | SVS                  | R-SVS      | SVS       | MRMS  | MR  | R                  | MSS       | MRMS        | RMR            |
| Rosalind <sup>db</sup>     | MSS       | MRMS                | S                    | MR-S       | SVS       | MRMS  | MRMS  | R                  | S         | MS          | S              |
| Scope CL <sup>db</sup>     | S         | R-MRMS              | MSS                  | MRMS-SVS   | SVS       | MRMS  | MRMS  | S                  | S         | MS          | MRMS           |
| Spartacus CL <sup>db</sup> | S         | MS-VS               | SVS                  | R-SVS      | SVS       | MRMS  | MRMS  | R                  | S         | MSS         | S              |
| Spinnaker <sup>db</sup>    | MSS       | SVS                 | SVS                  | S          | SVS       | MR  | MS  | S                  | MSS       | MRMS        | RMR            |
| Titan AX <sup>db</sup>     | SVS       | MRMS-S              | MSS                  | VS         | SVS       | MR  | MR  | MR (P)             | MSS       | MSS         | MSS            |
| Urambie                    | S         | MRMS                | S                    | R-S        | SVS       | MRMS  | MR  |                    | MSS       | MRMS        | MS             |
| Westminster <sup>db</sup>  | MS        | MRMS-S              | S                    | R-S        | SVS       | MRMS  | MS  |                    | MSS       | MRMS        | RMR            |
| Yeti <sup>db</sup>         | SVS       | MR-MSS              | MSS                  | VS         | SVS       | MR  | MR  | RMR                | S         | MSS         | S              |
| Zena <sup>db</sup> CL      | MSS       | MRMS-SVS            | SVS                  | R-S        | SVS       | MRMS  | MR  | R                  | S         | MRMS (P)    | RMR            |

Learn more via the [NVT Disease Ratings](#).

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible,

T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant,

(P) = provisional rating, - hyphen indicates a range, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes,

<sup>a</sup> line contains a few susceptible off types, ( ) show outlier.

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## New oat varieties

The following information is for oat varieties released in the 12 months to the date when the MET analysis was published on NVT online. Please go to [nvt.grdc.com.au](http://nvt.grdc.com.au) to find trial results for any new varieties released since the publication of this harvest report.

| Variety              | Breeding company   | End point royalty* (\$) | Comments supplied by breeding company <sup>1</sup>  |
|----------------------|--------------------|-------------------------|---|
| Goldie <sup>db</sup> | InterGrain Pty Ltd | 3.50                    | Goldie <sup>db</sup> is a new high-yielding milling oat and is suited to all oat growing regions of southern NSW, Victoria, SA and WA. Goldie <sup>db</sup> is a mid-spring maturing oat and is well suited for the second week of April to mid-May sowing window. Goldie <sup>db</sup> has a medium-tall plant height and has excellent panicle emergence. It has good test weight and low screenings. Along with excellent grain yield and quality attributes, early hay yield and quality data looks promising for export hay. Goldie <sup>db</sup> has a mid-spring maturity. |
| Minnie <sup>db</sup> | InterGrain Pty Ltd | 3.50                    | Minnie <sup>db</sup> provides excellent yield potential for medium to high rainfall oat growing regions of southern NSW, Victoria, SA and WA. Its short-medium plant height allows improved lodging and harvestability in higher yielding situations. Minnie <sup>db</sup> has a mid-slow spring maturity.  |

\*EPR amount is ex-GST, <sup>db</sup>denotes Plant Breeder's Rights apply. <sup>1</sup>All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder.

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Refer to the latest *Crop Sowing Guide* for further information at [nvt.grdc.com.au/resources/crop-sowing-guides](http://nvt.grdc.com.au/resources/crop-sowing-guides)

## Oat variety yield performance – Central South Australia

Yield results are presented from the top-performing varieties within each NVT location in the region for the past five seasons. Results are presented (as a percentage) for each variety relative to the mean trial yield for the location within each year. Varieties are listed in descending order of average yield over the period. The Long Term Yield Reporter provides additional information on varieties not listed and can be viewed as a table or chart with error bars. Rainfall is provided for January to March (J–M) and April to October (A–O) and, where relevant, irrigation from April to October.

| Table 1: Crystal Brook oat. |       |       |       |        |              |
|-----------------------------|-------|-------|-------|--------|--------------|
| Year                        | 2020  | 2021  | 2022  | 2023   | 2024         |
| Mean yield (t/ha)           | 3.46  | 3.36  | 6.22  | 3.82   |              |
| Goldie <sup>db</sup>        |       | 111   | 113   | 107    | Trial failed |
| Koala <sup>db</sup>         | 109   | 111   | 120   | 100    |              |
| Bannister <sup>db</sup>     | 114   | 110   | 115   | 103    |              |
| Minnie <sup>db</sup>        |       |       | 106   | 104    |              |
| Williams <sup>db</sup>      | 100   | 103   | 105   | 99     |              |
| Archer <sup>db*</sup>       |       |       |       | 98     |              |
| Bilby <sup>db</sup>         | 101   | 97    | 94    | 102    |              |
| Yallara <sup>db</sup>       | 97    | 101   | 96    | 98     |              |
| Kowari <sup>db</sup>        | 95    | 95    | 94    | 100    |              |
| Wallaby <sup>db</sup>       |       |       |       | 91     |              |
| Sowing date                 | 8 May | 1 Jun | 8 Jun | 12 May | 6 Jun        |
| Rainfall J–M (mm)           | 89    | 27    | 47    | 24     | 34           |
| Rainfall A–O (mm)           | 335   | 221   | 302   | 237    | 138          |

Special thanks to 2024 trial cooperator.  
\* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

| Table 2: Paskeville oat. |       |        |                   |        |          |
|--------------------------|-------|--------|-------------------|--------|----------|
| Year                     | 2020  | 2021   | 2022              | 2023   | 2024     |
| Mean yield (t/ha)        | 0.82  | 1.69   |                   | 2.44   |          |
| Goldie <sup>db</sup>     |       | 116    | Compromised trial | 122    | No trial |
| Archer <sup>db*</sup>    |       |        |                   | 132    |          |
| Bilby <sup>db</sup>      | 110   | 114    |                   | 114    |          |
| Bannister <sup>db</sup>  | 107   | 95     |                   | 112    |          |
| Minnie <sup>db</sup>     |       |        |                   | 102    |          |
| Williams <sup>db</sup>   | 105   | 91     |                   | 113    |          |
| Kowari <sup>db</sup>     | 100   | 104    |                   | 96     |          |
| Koala <sup>db</sup>      | 104   | 78     |                   | 107    |          |
| Kultarr <sup>db</sup>    |       |        |                   | 94     |          |
| Mitika <sup>db</sup>     | 94    | 99     |                   | 88     |          |
| Sowing date              | 7 May | 12 May | 14 Jun            | 17 May |          |
| Rainfall J–M (mm)        | 39    | 33     | 113               | 47     |          |
| Rainfall A–O (mm)        | 268   | 229    | 285               | 201    |          |

No 2024 trial cooperator.  
\* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

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## Oat variety disease ratings – South Australia

The following tables contain varietal ratings for the predominant diseases of oat in South Australia. These ratings are updated annually by crop pathologists and were released in March 2025.

Selected varieties of most relevance to South Australian growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and tolerance ratings.

**Table 3: Oat disease guide for South Australia.**

| Variety                 | Stem rust (east) | Leaf rust (crown rust) | Barley yellow dwarf virus (BYDV) | CCN  | Stem nematode resistance | Stem nematode tolerance | Septoria | Bacterial blight | Red leather leaf |
|-------------------------|------------------|------------------------|----------------------------------|------|--------------------------|-------------------------|----------|------------------|------------------|
| Archer <sup>db</sup>    | MS               | R                      | MSS                              | VS   | VS (P)                   | I (P)                   | MSS      | MSS              | SVS              |
| Bannister <sup>db</sup> | S                | MRMS                   | MSS                              | MRMS | MRMS                     | MT                      | MSS      | S                | MSS-SVS          |
| Bilby <sup>db</sup>     | S                | S                      | S                                | VS   | S                        | MI                      | S        | SVS              | MS-S             |
| Brusher                 | SVS              | MR                     | S                                | MR   | S                        | MT                      | MSS      | SVS              | MS               |
| Carrolup                | S                | VS                     | SVS                              | VS   | S                        | I                       | S        | MSS              | SVS              |
| Durack <sup>db</sup>    | S                | S                      | S                                | MRMS | S                        | MT                      | S        | S                | S                |
| Echidna                 | S                | S                      | MSS                              | MRMS | MRMS                     | MT                      | SVS      | S                | MS               |
| Goldie <sup>db</sup>    | S                | R                      | MS                               | MR   | S                        | I                       | MSS      | MSS              | SVS              |
| Kingbale <sup>db</sup>  | S                | S                      | MS                               | R    | MR                       | MT                      | MS       | MSS              | SVS              |
| Koala <sup>db</sup>     | MS               | R                      | MSS                              | R    | MS                       | MT                      | MSS      | S                | S                |
| Kojonup <sup>db</sup>   | S                | SVS                    | MSS                              | VS   | MS                       | MT                      | S        | SVS              | S                |
| Kowari <sup>db</sup>    | S                | SVS                    | S                                | S    | S                        | I                       | S        | S                | S                |
| Kultarr <sup>db</sup>   | SVS              | R                      | MSS                              | MRMS | S (P)                    | MI (P)                  | MS       | MSS              | SVS              |
| Minnie <sup>db</sup>    | SVS              | R                      | S                                | RMR  | MS                       | MI                      | S        | S                | VS               |
| Mitika <sup>db</sup>    | MSS              | S                      | SVS                              | VS   | S                        | MT                      | SVS      | S                | S                |
| Mulgara <sup>db</sup>   | S                | MR                     | MSS                              | R    | MR                       | MT                      | S/MS     | MSS              | SVS              |
| Tungoo <sup>db</sup>    | S                | MR                     | MSS                              | MR   | R                        | MT                      | MRMS#    | MSS              | MRMS             |
| Wallaby <sup>db</sup>   | SVS              | R                      | MSS                              | MR   | S (P)                    | MI (P)                  | MSS      | MSS              | SVS              |
| Wandering               | SVS              | SVS                    | S                                | VS   | S                        | MT                      | S        | S                | S                |
| Williams <sup>db</sup>  | S                | MRMS                   | MSS                              | VS   | S                        | MI                      | MSS      | MSS              | MS               |
| Wintaroo                | S                | S                      | MS                               | R    | MR                       | MT                      | MS#      | MSS              | S                |
| Yallara <sup>db</sup>   | S                | MRMS                   | MSS                              | R    | MS                       | MI                      | MSS      | S                | SVS              |

Learn more via the [NVT Disease Ratings](#).

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant, (P) = provisional rating, - hyphen indicates a range, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes,

^ line contains a few susceptible off types, ( ) show outlier.

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## New canola varieties

The following information is for canola varieties released in the 12 months to the date when the MET analysis was published on NVT online. Please go to [nvt.grdc.com.au](http://nvt.grdc.com.au) to find trial results for any new varieties released since the publication of this harvest report.

| Variety             | Breeding company         | End point royalty* (\$) | Comments supplied by breeding company <sup>1</sup>   |
|---------------------|--------------------------|-------------------------|--|
| DG Buller G         | Nutrien Ag Solutions Ltd | N/A                     | DG Buller G will be available to growers in 2025. It is a 5 series, Optimum GLY® hybrid. DG Buller G is medium height with good standability. It has good oil content.   |
| InVigor® LR 5040P   | BASF Australia Ltd       | N/A                     | InVigor® LR5040P is a mid-season hybrid with PodGuard®. InVigor® LR5040P contains dual herbicide tolerance to Liberty® and Truflex®. InVigor® LR5040P combines the flexibility of PodGuard® and dual herbicide tolerance with high yield and oil results. InVigor® LR5040P is suited to mid-season growing regions.  |
| Monola® H524TT      | Nuseed Pty Ltd           | N/A                     | Monola® H524TT is an early-mid maturing Monola® TT hybrid with excellent early vigour. It is Nuseed's second Monola® TT hybrid with improved yield and oil profile. It has demonstrated competitive yield and oil content to commercial canola TT hybrids during trials and exhibits strong early vigour and good early biomass. Suited to medium to slow canola growing regions, Monola® H524TT demonstrates good harvestability. Limited commercial release in 2024. |
| Nuseed® Griffon TTI | Nuseed Pty Ltd           | N/A                     | Nuseed® Griffon TTI is Nuseed's first dual-herbicide hybrid canola, with triazine and IMI tolerance for flexible, effective crop protection. It is an early-mid maturing variety ideal for target yield environments of 0.5 to 3t/ha, which ensures fast pod development to safeguard yield. Commercial release in 2025. Rapid pod development for higher yields and a shorter growing season.   |
| Pioneer® PY323G     | Pioneer                  | N/A                     | Pioneer® PY323G (coded AA1421G) is an early maturing Optimum GLY® hybrid variety. Suited to early and early-mid season growing regions, it is medium in height. First tested in NVT 2023. Marketed by Pioneer Seeds.   |
| Pioneer® PY327C     | Pioneer                  | N/A                     | Pioneer® PY327C (coded AA0424I) is an early maturing Clearfield® hybrid suited to medium to high rainfall zones. It has mid-fast phenology and a medium-tall plant height. First tested in NVT 2023. Marketed by Pioneer Seeds.  |
| Pioneer® PY422G     | Pioneer                  | N/A                     | Pioneer® PY422G (coded AA1418G) is an early-mid maturing Optimum GLY® hybrid suited to early-mid and mid-season growing regions with medium height. First tested in NVT 2023. Marketed by Pioneer Seeds.   |
| Pioneer® PY424GC    | Pioneer                  | N/A                     | Pioneer® PY424GC (coded WW1958W) is an early-mid maturing combination Optimum GLY® and Clearfield® hybrid suited to early and early-mid season growing regions. It has medium height. First tested in NVT 2023. Marketed by Pioneer Seeds.   |
| Pioneer® PY428R     | Pioneer                  | N/A                     | Pioneer® PY428R (coded D257-18) is an early-mid maturing Roundup Ready® hybrid suited to early and early-mid season growing regions and is medium in height. First tested in NVT 2023. Marketed by Pioneer Seeds.  |

Continued on next page

Refer to the latest *Crop Sowing Guide* for further information at [nvt.grdc.com.au/resources/crop-sowing-guides](http://nvt.grdc.com.au/resources/crop-sowing-guides)

| Variety         | Breeding company | End point royalty* (\$) | Comments supplied by breeding company <sup>1</sup>   |
|-----------------|------------------|-------------------------|--|
| Pioneer® PY429T | Pioneer          | N/A                     | Pioneer® PY429T (coded AA902T) is a widely adapted early-mid maturing triazine-tolerant hybrid. Best suited to medium to medium-high rainfall zones. Medium plant height. First tested in NVT 2023. Marketed by Pioneer Seeds. |
| Pioneer® PY432T | Pioneer          | N/A                     | Variety description not supplied.  |
| Pioneer® PY525G | Pioneer          | N/A                     | Pioneer® PY525G (coded AA1409G) is a mid-maturing Optimum GLY® hybrid variety suited to mid-season growing regions with medium-tall height. First tested in NVT 2023. Marketed by Pioneer Seeds.                               |

\*EPR amount is ex-GST, <sup>d</sup>denotes Plant Breeder's Rights apply. <sup>1</sup>All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder.



## Canola variety yield performance – Central South Australia

Yield results are presented from the top-performing varieties within each NVT location in the region for the past five seasons. Results are presented (as a percentage) for each variety relative to the mean trial yield for the location within each year. Varieties are listed in descending order of average yield over the period.

The Long Term Yield Reporter provides additional information on varieties not listed and can be viewed as a table or chart with error bars. Rainfall is provided for January to March (J–M) and April to October (A–O) and, where relevant, irrigation from April to October.

**Table 1: Arthurton med-high rainfall GLY.**

| Year              | 2020     | 2021   | 2022   | 2023  | 2024     |
|-------------------|----------|--------|--------|-------|----------|
| Mean yield (t/ha) |          | 2.91   | 3.44   | 2.62  |          |
| Pioneer® PY428R   | No trial |        |        | 103   | No trial |
| InVigor® LR 4540P |          |        | 104    | 104   |          |
| InVigor® LR 5040P |          |        | 108    | 101   |          |
| Nuseed® Hunter TF |          | 112    | 103    | 105   |          |
| InVigor® R 4520P  |          | 109    | 106    | 102   |          |
| Pioneer® 44Y30 RR |          | 107    | 104    | 103   |          |
| Pioneer® 45Y28 RR |          | 103    | 106    | 102   |          |
| Pioneer® 44Y27 RR |          | 107    | 99     | 104   |          |
| Pioneer® PY424GC  |          |        |        | 102   |          |
| Nuseed® Raptor TF |          | 103    | 100    | 103   |          |
| Sowing date       |          | 25 May | 26 May | 6 May |          |
| Rainfall J–M (mm) |          | 96     | 130    | 58    |          |
| Rainfall A–O (mm) |          | 219    | 321    | 241   |          |

No 2024 trial cooperator.

Learn more via the [NVT Long Term Yield Reporter](#)

**Table 2: Riverton med-high rainfall GLY.**

| Year               | 2020     | 2021   | 2022   | 2023  | 2024  |
|--------------------|----------|--------|--------|-------|-------|
| Mean yield (t/ha)  |          | 3.24   | 3.92   | 3.09  | 2.21  |
| Pioneer® PY428R    | No trial |        |        | 108   | 112   |
| Hyola® Regiment XC |          | 110    | 101    | 109   | 111   |
| Nuseed® Hunter TF  |          |        | 103    | 111   | 110   |
| Nuseed® Eagle TF   |          |        | 105    | 104   | 107   |
| InVigor® LR 4540P  |          |        | 103    | 109   | 108   |
| InVigor® R 4520P   |          | 102    | 104    | 106   | 107   |
| Nuseed® Raptor TF  |          | 106    | 101    | 105   | 106   |
| InVigor® LR 5040P  |          |        | 105    | 104   | 105   |
| Pioneer® PY323G    |          |        |        | 105   | 103   |
| DG Buller G        |          |        |        |       | 102   |
| Sowing date        |          | 27 May | 30 May | 4 May | 3 Jun |
| Rainfall J–M (mm)  |          | 44     | 46     | 42    | 6     |
| Rainfall A–O (mm)  |          | 378    | 449    | 295   | 250   |

Special thanks to 2024 trial cooperator, Indoota Farm Trust.

Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Regiment XC, Pioneer® PY424GC.

Learn more via the [NVT Long Term Yield Reporter](#)

**Table 3: Urania med-high rainfall GLY.**

| Year               | 2020     | 2021     | 2022     | 2023     | 2024   |
|--------------------|----------|----------|----------|----------|--------|
| Mean yield (t/ha)  |          |          |          |          | 2.28   |
| Nuseed® Hunter TF  | No trial | No trial | No trial | No trial | 115    |
| InVigor® LR 4540P  |          |          |          |          | 115    |
| Nuseed® Emu TF     |          |          |          |          | 111    |
| Pioneer® 44Y27 RR  |          |          |          |          | 110    |
| InVigor® LR 5040P  |          |          |          |          | 108    |
| InVigor® R 4520P   |          |          |          |          | 108    |
| Nuseed® Raptor TF  |          |          |          |          | 106    |
| Pioneer® PY424GC   |          |          |          |          | 106    |
| Hyola® Regiment XC |          |          |          |          | 105    |
| DG Buller G        |          |          |          |          | 104    |
| Sowing date        |          |          |          |          | 30 May |
| Rainfall J–M (mm)  |          |          |          |          | 21     |
| Rainfall A–O (mm)  |          |          |          |          | 192    |

Special thanks to 2024 trial cooperator.

Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Regiment XC, Pioneer® PY424GC.

Learn more via the [NVT Long Term Yield Reporter](#)

**Table 4: Arthurton med-high rainfall IMI.**

| Year                | 2020   | 2021   | 2022   | 2023  | 2024     |
|---------------------|--------|--------|--------|-------|----------|
| Mean yield (t/ha)   | 1.12   | 2.75   | 3.48   | 2.00  |          |
| Pioneer® PY421C     |        |        |        | 109   | No trial |
| Pioneer® 44Y94 CL   | 123    | 113    | 114    | 108   |          |
| Pioneer® PY327C     |        |        |        | 107   |          |
| Pioneer® 45Y95 CL   |        | 110    | 114    | 108   |          |
| Pioneer® 45Y93 CL   | 94     | 101    | 114    | 102   |          |
| Hyola® Continuum CL |        |        | 107    | 104   |          |
| Pioneer® 43Y92 CL   | 110    |        |        | 104   |          |
| Hyola® Solstice CL  |        | 107    | 99     | 104   |          |
| Nuseed® Ceres IMI   |        | 107    | 92     | 101   |          |
| VICTORY® V75-03CL   | 84     |        |        | 98    |          |
| Sowing date         | 28 Apr | 25 May | 26 May | 6 May |          |
| Rainfall J–M (mm)   | 63     | 96     | 130    | 58    |          |
| Rainfall A–O (mm)   | 313    | 219    | 321    | 241   |          |

No trial cooperator.

Learn more via the [NVT Long Term Yield Reporter](#)

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Table 5: Riverton med-high rainfall IML

| Year                | 2020   | 2021   | 2022   | 2023  | 2024  |
|---------------------|--------|--------|--------|-------|-------|
| Mean yield (t/ha)   | 2.83   | 3.16   | 3.65   | 2.50  | 2.04  |
| Pioneer® PY421C     |        |        | 114    | 117   | 120   |
| Pioneer® 45Y95 CL   |        | 115    | 113    | 114   | 119   |
| Pioneer® 44Y94 CL   | 110    | 111    | 112    | 113   | 116   |
| Hyola® Solstice CL  |        | 113    | 102    | 115   | 115   |
| Pioneer® PY327C     |        |        |        | 112   | 111   |
| Pioneer® 45Y93 CL   | 105    | 106    | 111    | 101   |       |
| Nuseed® Ceres IML   |        | 103    | 95     | 110   | 106   |
| Pioneer® 43Y92 CL   | 101    | 104    | 102    | 106   | 105   |
| Hyola® Continuum CL |        |        | 105    | 103   | 103   |
| VICTORY® V75-03CL   | 86     |        |        | 94    | 92    |
| Sowing date         | 28 Apr | 27 May | 30 May | 4 May | 3 Jun |
| Rainfall J–M (mm)   | 42     | 44     | 46     | 42    | 6     |
| Rainfall A–O (mm)   | 388    | 378    | 449    | 295   | 250   |

Special thanks to 2024 trial cooperator, Indoota Farm Trust.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 7: Urania med-high rainfall IML

| Year                | 2020     | 2021     | 2022     | 2023     | 2024   |
|---------------------|----------|----------|----------|----------|--------|
| Mean yield (t/ha)   |          |          |          |          | 2.11   |
| Pioneer® PY421C     |          |          |          |          | 122    |
| Pioneer® 44Y94 CL   |          |          |          |          | 118    |
| Pioneer® 45Y95 CL   |          |          |          |          | 116    |
| Hyola® Solstice CL  | No trial | No trial | No trial | No trial | 111    |
| Pioneer® 43Y92 CL   |          |          |          |          | 108    |
| Hyola® Continuum CL |          |          |          |          | 108    |
| Nuseed® Ceres IML   |          |          |          |          | 107    |
| Sowing date         |          |          |          |          | 30 May |
| Rainfall J–M (mm)   |          |          |          |          | 21     |
| Rainfall A–O (mm)   |          |          |          |          | 192    |

Special thanks to 2024 trial cooperator.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 9: Arthurton med-high rainfall TT

| Year               | 2020   | 2021   | 2022   | 2023  | 2024 |
|--------------------|--------|--------|--------|-------|------|
| Mean yield (t/ha)  | 1.24   | 2.32   | 3.24   | 2.13  |      |
| Pioneer® PY429T    |        |        |        | 107   |      |
| Hyola® Blazer TT   | 108    | 109    | 113    | 106   |      |
| HyITec® Trophy     | 117    | 112    | 107    | 106   |      |
| HyITec® Trifecta   | 110    | 110    | 111    | 106   |      |
| HyITec® Trident    | 122    | 115    | 100    | 109   |      |
| SF Dynatron TT®    | 112    | 109    | 109    | 105   |      |
| Pioneer® PY520TC   |        | 107    |        | 105   |      |
| Hyola® Defender CT |        |        | 112    | 104   |      |
| InVigor® T 4510    | 114    | 108    | 102    | 104   |      |
| InVigor® T 4511    |        | 107    | 103    | 103   |      |
| Sowing date        | 28 Apr | 25 May | 26 May | 6 May |      |
| Rainfall J–M (mm)  | 63     | 96     | 130    | 58    |      |
| Rainfall A–O (mm)  | 313    | 219    | 321    | 241   |      |

No 2024 trial cooperator.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 6: Spalding med-high rainfall IML

| Year                | 2020   | 2021   | 2022   | 2023   | 2024  |
|---------------------|--------|--------|--------|--------|-------|
| Mean yield (t/ha)   |        | 3.03   | 3.51   | 2.08   | 2.05  |
| Pioneer® PY421C     |        |        | 112    | 114    | 113   |
| Pioneer® 45Y95 CL   |        | 113    | 110    | 111    | 109   |
| Pioneer® 44Y94 CL   |        | 111    | 109    | 111    | 110   |
| Pioneer® PY327C     |        |        |        | 110    | 110   |
| Hyola® Solstice CL  |        | 105    | 105    | 112    | 110   |
| Pioneer® 45Y93 CL   |        | 107    | 106    | 101    |       |
| Hyola® Continuum CL |        |        | 103    | 102    | 102   |
| Pioneer® 43Y92 CL   |        | 104    | 102    | 104    | 104   |
| Nuseed® Ceres IML   |        |        | 100    | 108    | 108   |
| VICTORY® V75-03CL   |        | 99     |        | 95     | 95    |
| Sowing date         | 27 Apr | 28 May | 30 May | 22 May | 2 Jun |
| Rainfall J–M (mm)   | 78     | 31     | 46     | 38     | 60    |
| Rainfall A–O (mm)   | 383    | 325    | 405    | 239    | 161   |

Special thanks to 2024 trial cooperator, Andrew Cootes.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 8: Wasleys med-high rainfall IML

| Year                | 2020   | 2021   | 2022  | 2023  | 2024  |
|---------------------|--------|--------|-------|-------|-------|
| Mean yield (t/ha)   | 2.41   | 2.31   | 3.21  | 3.09  | 1.82  |
| Pioneer® PY421C     |        |        | 120   | 113   | 117   |
| Pioneer® 44Y94 CL   | 115    | 113    | 116   | 109   | 113   |
| Pioneer® 45Y95 CL   |        | 120    | 112   | 107   | 115   |
| Pioneer® 45Y93 CL   | 104    | 117    | 116   | 101   |       |
| Pioneer® PY327C     |        |        |       | 109   | 110   |
| Hyola® Continuum CL |        |        | 109   | 102   | 103   |
| Pioneer® 43Y92 CL   | 104    | 102    | 102   | 103   | 104   |
| Hyola® Solstice CL  |        | 107    | 89    | 106   | 112   |
| Nuseed® Ceres IML   |        |        | 88    | 107   | 106   |
| VICTORY® V75-03CL   | 89     | 96     |       | 94    | 93    |
| Sowing date         | 25 Apr | 27 May | 6 May | 2 May | 4 Jun |
| Rainfall J–M (mm)   | 46     | 35     | 82    | 9     | 25    |
| Rainfall A–O (mm)   | 360    | 297    | 370   | 224   | 150   |

Special thanks to 2024 trial cooperator.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 10: Riverton med-high rainfall TT

| Year              | 2020   | 2021   | 2022   | 2023  | 2024  |
|-------------------|--------|--------|--------|-------|-------|
| Mean yield (t/ha) | 2.77   | 2.96   | 3.58   | 2.16  | 1.61  |
| HyITec® Trifecta  | 108    | 116    | 111    | 116   | 123   |
| Hyola® Blazer TT  | 106    | 112    | 111    | 111   | 117   |
| HyITec® Trophy    | 106    | 111    | 107    | 115   | 117   |
| Pioneer® PY429T   |        |        |        | 112   | 116   |
| HyITec® Trident   | 98     | 113    | 102    | 120   | 118   |
| Pioneer® PY520TC  |        | 110    | 109    | 109   | 114   |
| SF Dynatron TT®   | 104    | 106    | 106    | 108   | 109   |
| HyITec® Velocity  |        |        | 99     | 114   | 111   |
| InVigor® T 4511   |        | 106    | 103    | 109   | 110   |
| RGT Baseline® TT  |        | 106    | 109    | 100   | 107   |
| Sowing date       | 28 Apr | 27 May | 30 May | 4 May | 3 Jun |
| Rainfall J–M (mm) | 42     | 44     | 46     | 42    | 6     |
| Rainfall A–O (mm) | 388    | 378    | 449    | 295   | 250   |

Special thanks to 2024 trial cooperator, Indoota Farm Trust.  
Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Defender CT, Nuseed® Griffon TTI, Pioneer® PY520TC.  
Learn more via the [NVT Long Term Yield Reporter](#)

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Table 11: Spalding med-high rainfall TT.

| Year               | 2020              | 2021   | 2022   | 2023   | 2024  |
|--------------------|-------------------|--------|--------|--------|-------|
| Mean yield (t/ha)  |                   | 2.61   | 3.23   | 1.76   | 1.34  |
| HyITec® Trident    | Compromised trial | 113    | 105    | 116    | 118   |
| HyITec® Trifecta   |                   | 112    | 109    | 113    | 114   |
| Pioneer® PY429T    |                   |        |        | 110    | 112   |
| HyITec® Trophy     |                   | 110    | 107    | 112    | 114   |
| Hyola® Blazer TT   |                   | 112    | 108    | 109    | 110   |
| Pioneer® PY520TC   |                   |        | 107    | 107    | 108   |
| SF Dynatron TT®    |                   | 108    | 105    | 106    | 108   |
| HyITec® Velocity   |                   |        | 103    | 112    | 116   |
| InVigor® T 4511    |                   | 104    | 104    | 108    | 110   |
| Hyola® Defender CT |                   |        | 105    | 101    | 101   |
| Sowing date        | 27 Apr            | 28 May | 30 May | 22 May | 2 Jun |
| Rainfall J–M (mm)  | 78                | 31     | 46     | 38     | 60    |
| Rainfall A–O (mm)  | 383               | 325    | 405    | 239    | 161   |

Special thanks to 2024 trial cooperator, Andrew Cootes.

Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Defender CT, Nuseed® Griffon TTI, Pioneer® PY520TC.

Learn more via the [NVT Long Term Yield Reporter](#)

Table 12: Urania med-high rainfall TT.

| Year              | 2020     | 2021     | 2022     | 2023     | 2024              |
|-------------------|----------|----------|----------|----------|-------------------|
| Mean yield (t/ha) |          |          |          |          |                   |
|                   | No trial | No trial | No trial | No trial | Compromised trial |
|                   |          |          |          |          |                   |
|                   |          |          |          |          |                   |
|                   |          |          |          |          |                   |
|                   |          |          |          |          |                   |
|                   |          |          |          |          |                   |
|                   |          |          |          |          |                   |
|                   |          |          |          |          |                   |
|                   |          |          |          |          |                   |
|                   |          |          |          |          |                   |
| Sowing date       |          |          |          |          | 30 May            |
| Rainfall J–M (mm) |          |          |          |          | 21                |
| Rainfall A–O (mm) |          |          |          |          | 192               |

Special thanks to 2024 trial cooperator.

Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Defender CT, Nuseed® Griffon TTI, Pioneer® PY520TC.

Table 13: Wasleys med-high rainfall TT.

| Year                | 2020   | 2021   | 2022  | 2023  | 2024  |
|---------------------|--------|--------|-------|-------|-------|
| Mean yield (t/ha)   | 2.46   | 2.19   | 2.99  | 2.50  | 1.40  |
| Pioneer® PY429T     |        |        |       | 109   | 114   |
| Hyola® Blazer TT    | 108    | 117    | 113   | 106   | 114   |
| HyITec® Trifecta    | 109    | 118    | 105   | 108   | 119   |
| Pioneer® PY520TC    |        | 115    | 110   | 105   | 112   |
| HyITec® Trophy      | 110    | 108    | 105   | 109   | 115   |
| Hyola® Defender CT  |        |        | 116   | 102   | 105   |
| SF Dynatron TT®     | 108    | 106    | 112   | 106   | 108   |
| RGT Baseline® TT    |        | 116    | 110   | 99    | 105   |
| Nuseed® Griffon TTI |        |        |       | 107   | 105   |
| HyITec® Trident     | 107    | 103    | 94    | 110   | 116   |
| Sowing date         | 25 Apr | 27 May | 6 May | 2 May | 4 Jun |
| Rainfall J–M (mm)   | 46     | 35     | 82    | 9     | 25    |
| Rainfall A–O (mm)   | 360    | 297    | 370   | 224   | 150   |

Special thanks to 2024 trial cooperator.

Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Defender CT, Nuseed® Griffon TTI, Pioneer® PY520TC.

Learn more via the [NVT Long Term Yield Reporter](#)

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## Australian canola variety disease ratings

The following table contains varietal ratings for blackleg disease of canola.

These ratings are updated twice a year by crop pathologists and were released in autumn 2025.

**Table 14: Canola disease guide – autumn 2025 ratings and resistance groups.**

| Variety                          | 2025 autumn blackleg rating |                         |                               | 2025 upper canopy infection blackleg rating | Type  | Major gene resistance group of cultivar |
|----------------------------------|-----------------------------|-------------------------|-------------------------------|---|---|---|
|                                  | Bare                        | Fluopyram (e.g. ILeVo®) | Pydiflumetofen (e.g. Saltro®) |   |   |   |
| CONVENTIONAL VARIETIES           |                             |                         |                               |   |   |   |
| Outlaw <sup>Ⓢ</sup>              | RMR                         | R                       | R                             | MR-UCI                                      | Open pollinated                               | A                                       |
| Nuseed® Diamond                  | RMR                         | R                       | R                             | MR-UCI                                      | Hybrid  | ABF                                     |
| Nuseed® Quartz                   | MR                          |                         |                               | MR-UCI                                      | Hybrid  | ABD                                     |
| TRIAZINE-TOLERANT VARIETIES      |                             |                         |                               |   |   |   |
| Pioneer® PY429T                  | R                           |                         | R                             | R-UCI                                       | Hybrid, Triazine                              | ABH                                     |
| HyTTec® Trifecta                 | R                           |                         |                               | MR-UCI                                      | Hybrid, Triazine                              | ABD                                     |
| DG Bidgee TT <sup>Ⓢ</sup>        | R                           | R                       | R                             | R-UCI                                       | Open pollinated, Triazine                     | H                                       |
| HyTTec® Trident                  | R                           |                         |                               | MR-UCI                                      | Hybrid, Triazine                              | AD                                      |
| HyTTec® Trophy                   | R                           | R                       | R                             | MR-UCI                                      | Hybrid, Triazine                              | AD                                      |
| DG Torrens TT <sup>Ⓢ</sup>       | RMR                         |                         |                               | R-UCI                                       | Open pollinated, Triazine                     | H                                       |
| Monola® H524TT                   | RMR                         |                         |                               | MR-UCI                                      | High stability oil, hybrid, Triazine          | AD                                      |
| Hyola® Blazer TT                 | RMR                         |                         | R                             | MR-UCI                                      | Hybrid, Triazine                              | ADF                                     |
| Monola® H421TT                   | RMR                         |                         |                               | MR-UCI                                      | High stability oil, hybrid, Triazine          | BC                                      |
| InVigor® T 4511                  | RMR                         | R                       |                               | MR-UCI                                      | Hybrid, Triazine                              | Unknown                                 |
| ATR-Bluefin <sup>Ⓢ</sup>         | RMR                         |                         |                               | MR-UCI                                      | Open pollinated, Triazine                     | AB                                      |
| Renegade TT <sup>Ⓢ</sup>         | MR                          | R                       | R                             | MR-UCI                                      | Open pollinated, Triazine                     | A                                       |
| SF Spark™ TT                     | MR                          | R                       | R                             | MR-UCI                                      | Hybrid, Triazine                              | ABDS                                    |
| HyTTec® Velocity                 | MR                          |                         |                               | MR-UCI                                      | Hybrid, Triazine                              | AB                                      |
| Monola® 422TT                    | MR                          |                         |                               | MR-UCI                                      | High stability oil, open pollinated, Triazine | BC                                      |
| DG Avon TT <sup>Ⓢ</sup>          | MR                          |                         | R                             | MR-UCI                                      | Open pollinated, Triazine                     | AC                                      |
| SF Dynatron™ TT                  | MRMS                        | R                       | R                             | MRMS-UCI                                    | Hybrid, Triazine                              | BC                                      |
| ATR-Swordfish <sup>Ⓢ</sup>       | MRMS                        |                         |                               | MRMS-UCI                                    | Open pollinated, Triazine                     | AB                                      |
| RGT Baseline™ TT                 | MRMS                        | RMR                     | R                             | MRMS-UCI                                    | Hybrid, Triazine                              | B                                       |
| Bandit TT <sup>Ⓢ</sup>           | MRMS                        | RMR                     | R                             | MRMS-UCI                                    | Open pollinated, Triazine                     | A                                       |
| RGT Capacity™ TT                 | MRMS                        | RMR                     | R                             | MRMS-UCI                                    | Hybrid, Triazine                              | B                                       |
| ATR-Bonito <sup>Ⓢ</sup>          | MS                          | MR                      | RMR                           | MS-UCI                                      | Open pollinated, Triazine                     | A                                       |
| IMIDAZOLINONE-TOLERANT VARIETIES |                             |                         |                               |   |   |   |
| Captain CL                       | R                           |                         |                               | R-UCI                                       | Winter, hybrid, Clearfield®                   | AH                                      |
| Hyola® Solstice CL               | R                           |                         | R                             | R-UCI                                       | Hybrid, Clearfield®                           | ADFH                                    |
| Hyola® Feast CL                  | R                           |                         | R                             | R-UCI                                       | Winter, hybrid, Clearfield®                   | H                                       |
| Phoenix CL                       | R                           |                         |                               | MR-UCI                                      | Winter, hybrid, Clearfield®                   | B                                       |
| Hyola® 970CL                     | R                           |                         | R                             | R-UCI                                       | Winter, hybrid, Clearfield®                   | H                                       |
| RGT Nizza™ CL                    | R                           |                         |                               | MR-UCI                                      | Winter, hybrid, Clearfield®                   | B                                       |
| Pioneer® PN526C                  | R                           |                         | R                             | MR-UCI                                      | High stability oil, hybrid, Clearfield®       | ABD                                     |
| Pioneer® PY327C                  | R                           |                         | R                             | MR-UCI                                      | Hybrid, Clearfield®                           | AB                                      |
| RGT Clavier™ CL                  | R                           |                         |                               | R-UCI                                       | Winter, hybrid, Clearfield®                   | ACH                                     |
| Pioneer® 45Y95 CL                | RMR                         |                         |                               | MR-UCI                                      | Hybrid, Clearfield®                           | C                                       |
| Pioneer® PY421C                  | RMR                         |                         | R                             | MR-UCI                                      | Hybrid, Clearfield®                           | A                                       |
| Nuseed® Ceres IMI                | RMR                         |                         |                               | MR-UCI                                      | Hybrid, Imidazolinone                         | AD                                      |
| Pioneer® 43Y92 CL                | RMR                         | R                       | R                             | MR-UCI                                      | Hybrid, Clearfield®                           | B                                       |
| VICTORY® V75-03CL                | RMR                         | R                       |                               | MR-UCI                                      | High stability oil, hybrid, Clearfield®       | AB                                      |
| Pioneer® 44Y94 CL                | RMR                         |                         |                               | MR-UCI                                      | Hybrid, Clearfield®                           | BC                                      |

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Table 14: Canola disease guide – autumn 2025 ratings and resistance groups (continued).

| Variety   | 2025 autumn blackleg rating |                         |                                | 2025 upper canopy infection blackleg rating | Type                                 | Major gene resistance group of cultivar |
|---|-----------------------------|-------------------------|--------------------------------|---|--------------------------------------|---|
|   | Bare                        | Fluopyram (e.g. iLeVo®) | Pydiflumetofen (e.g. Salstro®) |   |                                      |   |
| IMIDAZOLINONE AND TRIAZINE-TOLERANT VARIETIES   |                             |                         |                                |   |                                      |   |
| Hyola® Defender CT                              | R                           |                         | R                              | MR-UCI                                      | Hybrid, Clearfield®, Triazine        | ADF                                     |
| Pioneer® PY520 TC                               | RMR                         |                         | R                              | MR-UCI                                      | Hybrid, Clearfield®, Triazine        | BC                                      |
| Nuseed® Griffon TTI                             | RMR                         |                         |                                | MR-UCI                                      | Hybrid, Imidazolinone, Triazine      | AC                                      |
| GLYPHOSATE-TOLERANT VARIETIES                   |                             |                         |                                |   |                                      |   |
| DG Hotham TF                                    | R                           |                         |                                | R-UCI                                       | Hybrid, TruFlex®                     | ABH                                     |
| Nuseed® Raptor TF                               | R                           |                         |                                | MR-UCI                                      | Hybrid, TruFlex®                     | AD                                      |
| Nuseed® Eagle TF                                | R                           |                         |                                | MR-UCI                                      | Hybrid, TruFlex®                     | ABD                                     |
| VICTORY® V55-04TF                               | R                           | R                       |                                | MR-UCI                                      | High stability oil, hybrid, TruFlex® | AB                                      |
| DG Lofty TF                                     | R                           |                         |                                | R-UCI                                       | Hybrid, TruFlex®                     | ABH                                     |
| Nuseed® Hunter TF                               | RMR                         |                         |                                | MR-UCI                                      | Hybrid, TruFlex®                     | AB                                      |
| Pioneer® PY422G                                 | RMR                         |                         | R                              | MR-UCI                                      | Hybrid, Optimum GLY®                 | AB                                      |
| Pioneer® 44Y27 RR                               | RMR                         | R                       | R                              | MR-UCI                                      | Hybrid, Roundup Ready®               | B                                       |
| DG Buller G                                     | RMR                         |                         |                                | R-UCI                                       | Hybrid, Optimum GLY®                 | H                                       |
| Nuseed® Emu TF                                  | MR                          |                         |                                | MR-UCI                                      | Hybrid, TruFlex®                     | AB                                      |
| Pioneer® PY525G                                 | MR                          |                         | R                              | MR-UCI                                      | Hybrid, Optimum GLY®                 | AB                                      |
| Pioneer® PY323G                                 | MR                          |                         | R                              | MR-UCI                                      | Hybrid, Optimum GLY®                 | BC                                      |
| Pioneer® PY428R                                 | MR                          |                         | R                              | MR-UCI                                      | Hybrid, Roundup Ready®               | B                                       |
| InVigor® R 4520P                                | MRMS                        | R                       |                                | MRMS-UCI                                    | Hybrid, Truflex®                     | B                                       |
| GLYPHOSATE AND IMIDAZOLINONE-TOLERANT VARIETIES |                             |                         |                                |   |                                      |   |
| Hyola® Regiment XC                              | R                           | R                       | R                              | R-UCI                                       | Hybrid, TruFlex®, Clearfield®        | ADFH                                    |
| Pioneer® PY424GC                                | MR                          |                         | R                              | MR-UCI                                      | Hybrid, TruFlex®, Clearfield®        | BC                                      |
| GLUFOSINATE AND TRIAZINE-TOLERANT VARIETIES     |                             |                         |                                |   |                                      |   |
| InVigor® LT 4530P                               | RMR                         | R                       |                                | MR-UCI                                      | Hybrid, LibertyLink®, Triazine       | BF                                      |
| GLUFOSINATE AND GLYPHOSATE-TOLERANT VARIETIES   |                             |                         |                                |   |                                      |   |
| InVigor® LR 4540P                               | RMR                         | R                       |                                | MR-UCI                                      | Hybrid, LibertyLink®, TruFlex®       | B                                       |
| InVigor® LR 5040P                               | RMR                         | R                       |                                | MR-UCI                                      | Hybrid, LibertyLink®, TruFlex®       | AB                                      |
| InVigor® LR 3540P                               | MR                          | R                       |                                | MR-UCI                                      | Hybrid, LibertyLink®, TruFlex®       | AB                                      |

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, UCI = upper canopy infection.

Please check updated ratings using the [Blackleg Management Guide](#) or the [NVT Disease Ratings](#).

Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Defender CT, Nuseed® Griffon TTI, Pioneer® PY520TC.

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LUPIN

# CHICKPEA

## Chickpea variety yield performance – Central South Australia

Yield results are presented from the top-performing varieties within each NVT location in the region for the past five seasons. Results are presented (as a percentage) for each variety relative to the mean trial yield for the location within each year. Varieties are listed in descending order of average yield over the period. The Long Term Yield Reporter provides additional information on varieties not listed and can be viewed as a table or chart with error bars. Rainfall is provided for January to March (J–M) and April to October (A–O) and, where relevant, irrigation from April to October.

**Table 1: Kulpara desi chickpea.**

| Year                     | 2020              | 2021  | 2022  | 2023              | 2024     |
|--------------------------|-------------------|-------|-------|-------------------|----------|
| Mean yield (t/ha)        |                   | 0.58  | 2.46  |                   |          |
| PBA Slasher <sup>Ⓢ</sup> | Compromised trial | 96    | 104   | Compromised trial | No trial |
| Neelam <sup>Ⓢ</sup>      |                   | 84    | 106   |                   |          |
| PBA Maiden               |                   | 84    | 105   |                   |          |
| PBA Striker <sup>Ⓢ</sup> |                   | 90    | 103   |                   |          |
| PBA Seamer <sup>Ⓢ</sup>  |                   |       | 94    |                   |          |
| CBA Captain <sup>Ⓢ</sup> |                   | 107   | 93    |                   |          |
| Sowing date              | 24 May            | 2 Jun | 8 Jun | 23 May            |          |
| Rainfall J–M (mm)        | 39                | 33    | 96    | 53                |          |
| Rainfall A–O (mm)        | 268               | 229   | 290   | 197               |          |

No 2024 trial cooperator.

Learn more via the [NVT Long Term Yield Reporter](https://nvt.grdc.com.au/resources/crop-sowing-guides)

**Table 2: Kulpara kabuli chickpea.**

| Year                     | 2020              | 2021  | 2022  | 2023              | 2024     |
|--------------------------|-------------------|-------|-------|-------------------|----------|
| Mean yield (t/ha)        |                   | 0.51  | 2.49  |                   |          |
| PBA Monarch <sup>Ⓢ</sup> | Compromised trial | 93    | 105   | Compromised trial | No trial |
| Genesis® 090             |                   | 112   | 99    |                   |          |
| PBA Royal <sup>Ⓢ</sup>   |                   | 101   | 99    |                   |          |
| Genesis® Kalkee          |                   | 81    | 103   |                   |          |
| Almaz <sup>Ⓢ</sup>       |                   | 90    | 99    |                   |          |
| PBA Magnus <sup>Ⓢ</sup>  |                   | 98    | 92    |                   |          |
| Sowing date              | 24 May            | 2 Jun | 8 Jun | 23 May            |          |
| Rainfall J–M (mm)        | 39                | 33    | 96    | 53                |          |
| Rainfall A–O (mm)        | 268               | 229   | 290   | 197               |          |

No 2024 trial cooperator.

Learn more via the [NVT Long Term Yield Reporter](https://nvt.grdc.com.au/resources/crop-sowing-guides)

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## Chickpea variety disease ratings – South Australia

The following table contains varietal ratings for the predominant diseases of chickpea in South Australia. These ratings are updated annually by crop pathologists and were released in March 2025.

Selected varieties of most relevance to South Australian growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and tolerance ratings.

**Table 3: Chickpea disease guide for South Australia.**

| Variety                    | Ascochyta blight<br>(pathogen group 1 – south) | 2022-23<br>Phytophthora root rot | RLN resistance<br>( <i>Pratylenchus neglectus</i> ) | RLN resistance<br>( <i>Pratylenchus thornei</i> ) |
|----------------------------|--|----------------------------------|---|---|
| <b>DESI</b>                |  |                                  |   |   |
| CBA Captain <sup>db</sup>  | S  | S                                | MR  | MS  |
| Genesis® 836               | S  |                                  | MR  | MS  |
| Kyabra <sup>db</sup>       | VS   | VS                               | MRMS  | S   |
| Neelam <sup>db</sup>       | S  |                                  | MRMS  | MS  |
| PBA Boundary <sup>db</sup> | S  | VS                               | RMR   | MRMS  |
| PBA Drummond <sup>db</sup> | VS   | VS                               | MR  | MRMS  |
| PBA HatTrick <sup>db</sup> | S  | S                                | MRMS  | MRMS  |
| PBA Maiden                 | S  |                                  | MRMS  | MRMS  |
| PBA Pistol <sup>db</sup>   | S  |                                  | RMR   | MRMS  |
| PBA Seamer <sup>db</sup>   | S  | S                                | MRMS  | MRMS  |
| PBA Slasher <sup>db</sup>  | S  |                                  | MRMS  | MRMS  |
| PBA Striker <sup>db</sup>  | S  |                                  | MRMS  | MRMS  |
| <b>KABULI</b>              |  |                                  |   |   |
| Almaz <sup>db</sup>        | S  |                                  | MRMS  | S   |
| Genesis® 090               | MS   |                                  | MRMS  | MS  |
| Genesis® Kalkee            | S  |                                  | MRMS  | MS  |
| PBA Magnus <sup>db</sup>   | S  |                                  | MRMS  | MSS   |
| PBA Monarch <sup>db</sup>  | S  |                                  | MRMS  | MS  |
| PBA Royal <sup>db</sup>    | MS   |                                  | MR (P)  | MS  |

Learn more via the [NVT Disease Ratings](#).

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant, (P) = provisional rating, - hyphen indicates a range, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes, ^ line contains a few susceptible off types, () show outlier.

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# FABA BEAN

## Faba bean variety yield performance – Central South Australia

Yield results are presented from the top-performing varieties within each NVT location in the region for the past five seasons. Results are presented (as a percentage) for each variety relative to the mean trial yield for the location within each year. Varieties are listed in descending order of average yield over the period. The Long Term Yield Reporter provides additional information on varieties not listed and can be viewed as a table or chart with error bars. Rainfall is provided for January to March (J–M) and April to October (A–O) and, where relevant, irrigation from April to October.

**Table 1: Laura faba bean.**

| Year                       | 2020   | 2021   | 2022   | 2023   | 2024     |
|----------------------------|--------|--------|--------|--------|----------|
| Mean yield (t/ha)          | 4.99   | 3.09   | 7.10   | 1.96   |          |
| PBA Amberley <sup>db</sup> | 107    | 100    | 98     | 97     |          |
| PBA Samira <sup>db</sup>   | 107    | 98     | 98     | 100    |          |
| PBA Zahra <sup>db</sup>    | 104    | 98     | 96     | 101    |          |
| PBA Rana                   |        | 91     | 87     | 87     |          |
| Fiesta VF                  | 101    | 95     | 93     | 101    | No trial |
| PBA Bendoc <sup>db*</sup>  | 100    | 100    | 93     | 93     |          |
| Farah                      | 103    | 94     | 91     | 101    |          |
| Nura                       | 105    | 98     | 89     | 90     |          |
| PBA Marne <sup>db</sup>    | 87     | 97     | 96     | 107    |          |
| Sowing date                | 21 May | 28 May | 25 May | 31 May |          |
| Rainfall J–M (mm)          | 102    | 36     | 46     | 28     |          |
| Rainfall A–O (mm)          | 413    | 282    | 388    | 179    |          |

No 2024 trial cooperator.

\* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

**Table 2: Maitland faba bean.**

| Year                       | 2020   | 2021   | 2022  | 2023   | 2024     |
|----------------------------|--------|--------|-------|--------|----------|
| Mean yield (t/ha)          | 5.25   | 5.02   | 4.80  | 3.08   |          |
| PBA Zahra <sup>db</sup>    | 105    | 104    | 95    | 97     |          |
| PBA Samira <sup>db</sup>   | 105    | 104    | 96    | 95     |          |
| PBA Amberley <sup>db</sup> | 105    | 104    | 97    | 93     |          |
| PBA Marne <sup>db</sup>    | 94     | 97     | 99    | 112    |          |
| PBA Bendoc <sup>db*</sup>  | 99     | 100    | 95    | 98     | No trial |
| Farah                      | 99     | 100    | 91    | 99     |          |
| Fiesta VF                  | 97     | 98     | 93    | 100    |          |
| Nura                       | 99     | 99     | 91    | 94     |          |
| PBA Rana                   |        | 94     | 82    | 82     |          |
| Sowing date                | 13 May | 14 May | 2 Jun | 13 May |          |
| Rainfall J–M (mm)          | 47     | 71     | 97    | 69     |          |
| Rainfall A–O (mm)          | 344    | 219    | 417   | 280    |          |

No 2024 trial cooperator.

\* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

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Table 3: Minlaton faba bean.

| Year                       | 2020     | 2021     | 2022     | 2023     | 2024   |
|----------------------------|----------|----------|----------|----------|--------|
| Mean yield (t/ha)          |          |          |          |          | 2.59   |
| PBA Marne <sup>db</sup>    | No trial | No trial | No trial | No trial | 103    |
| PBA Samira <sup>db</sup>   |          |          |          |          | 98     |
| PBA Zahra <sup>db</sup>    |          |          |          |          | 98     |
| PBA Amberley <sup>db</sup> |          |          |          |          | 97     |
| Fiesta VF                  |          |          |          |          | 97     |
| Farah                      |          |          |          |          | 96     |
| PBA Bendoc <sup>db*</sup>  |          |          |          |          | 95     |
| Nura                       |          |          |          |          | 92     |
| PBA Rana                   |          |          |          |          | 86     |
| Sowing date                |          |          |          |          | 30 May |
| Rainfall J–M (mm)          |          |          |          |          | 28     |
| Rainfall A–O (mm)          |          |          |          |          | 145    |

Special thanks to 2024 trial cooperator.

\* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 4: Spalding faba bean.

| Year                       | 2020     | 2021     | 2022     | 2023     | 2024   |
|----------------------------|----------|----------|----------|----------|--------|
| Mean yield (t/ha)          |          |          |          |          | 1.23   |
| PBA Amberley <sup>db</sup> | No trial | No trial | No trial | No trial | 100    |
| PBA Zahra <sup>db</sup>    |          |          |          |          | 99     |
| PBA Samira <sup>db</sup>   |          |          |          |          | 98     |
| PBA Bendoc <sup>db*</sup>  |          |          |          |          | 98     |
| PBA Marne <sup>db</sup>    |          |          |          |          | 98     |
| Nura                       |          |          |          |          | 95     |
| Fiesta VF                  |          |          |          |          | 94     |
| Farah                      |          |          |          |          | 94     |
| PBA Rana                   |          |          |          |          | 85     |
| Sowing date                |          |          |          |          | 30 May |
| Rainfall J–M (mm)          |          |          |          |          | 60     |
| Rainfall A–O (mm)          |          |          |          |          | 161    |

Special thanks to 2024 trial cooperator, Andrew Cootes.

\* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 5: Tarlee faba bean.

| Year                       | 2020   | 2021   | 2022   | 2023  | 2024  |
|----------------------------|--------|--------|--------|-------|-------|
| Mean yield (t/ha)          | 4.33   | 5.61   | 6.80   | 4.09  | 2.38  |
| PBA Samira <sup>db</sup>   | 107    | 98     | 103    | 94    | 103   |
| PBA Marne <sup>db</sup>    | 87     | 102    | 103    | 106   | 97    |
| PBA Zahra <sup>db</sup>    | 99     | 99     | 103    | 95    | 101   |
| PBA Amberley <sup>db</sup> | 101    | 98     | 99     | 94    | 100   |
| Fiesta VF                  | 98     | 95     | 99     | 98    | 96    |
| Farah                      | 97     | 95     | 100    | 95    | 96    |
| PBA Rana                   |        | 80     | 88     | 85    | 91    |
| PBA Bendoc <sup>db*</sup>  | 84     | 96     | 91     | 97    | 91    |
| Nura                       | 86     | 92     | 89     | 94    | 88    |
| Sowing date                | 26 May | 19 May | 27 May | 4 May | 6 Jun |
| Rainfall J–M (mm)          | 34     | 43     | 59     | 47    | 27    |
| Rainfall A–O (mm)          | 355    | 410    | 484    | 282   | 233   |

Special thanks to 2024 trial cooperator.

\* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

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## Faba bean variety disease ratings – South Australia

The following table contains varietal ratings for the predominant diseases of faba bean in South Australia. These ratings are updated annually by crop pathologists and were released in March 2025.

Selected varieties of most relevance to South Australian growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and tolerance ratings.

**Table 6: Faba bean disease guide for South Australia.**

| Variety                   | Ascochyta blight | Cercospora leaf spot | Chocolate spot (Botrytis) | RLN resistance ( <i>Pratylenchus thornei</i> ) | Leaf rust |
|---------------------------|------------------|----------------------|---------------------------|--|-----------|
| Cairo                     | S (P)            | S                    | S                         | MSS  | S         |
| Doza                      | S (P)            | S                    | S                         | MSS  | MR        |
| Farah                     | MS (P)           | S                    | S                         | MRMS   | VS        |
| FBA Ayla <sup>Ⓛ</sup>     | MS (P)           | S                    | S                         | MRMS   | MR        |
| Fiesta VF                 | S                | S                    | S                         | MS   | VS        |
| Nura                      | MR (P)           | S                    | MS                        | MS   | VS        |
| PBA Amberley <sup>Ⓛ</sup> | MR               | S                    | MRMS                      | MRMS   | VS        |
| PBA Bendoc <sup>Ⓛ</sup>   | MR (MS) (P)      | S                    | S                         | MRMS   | VS        |
| PBA Marne <sup>Ⓛ</sup>    | MS               | S                    | MS                        | MS   | MRMS      |
| PBA Nanu <sup>Ⓛ</sup>     | MS (P)           | S                    | S                         | MRMS   | MR        |
| PBA Nasma <sup>Ⓛ</sup>    | S (P)            | S                    | S                         | MSS  | MRMS      |
| PBA Rana                  | MRMS (P)         | S                    | MS                        | MS   | VS        |
| PBA Samira <sup>Ⓛ</sup>   | MR (P)           | S                    | MS                        | MRMS   | S         |
| PBA Warda <sup>Ⓛ</sup>    | S                | S                    | S                         | MRMS   | MRMS      |
| PBA Zahra <sup>Ⓛ</sup>    | MRMS             | S                    | MS                        | MRMS   | S         |

Learn more via the [NVT Disease Ratings](#).

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible,

T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant,

(P) = provisional rating, - hyphen indicates a range, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes,

<sup>Ⓛ</sup> line contains a few susceptible off types, ( ) show outlier.

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# FIELD PEA

## Field pea variety yield performance – Central South Australia

Yield results are presented from the top-performing varieties within each NVT location in the region for the past five seasons. Results are presented (as a percentage) for each variety relative to the mean trial yield for the location within each year. Varieties are listed in descending order of average yield over the period.

The Long Term Yield Reporter provides additional information on varieties not listed and can be viewed as a table or chart with error bars. Rainfall is provided for January to March (J–M) and April to October (A–O) and, where relevant, irrigation from April to October.

**Table 1: Laura field pea.**

| Year                      | 2020   | 2021   | 2022   | 2023   | 2024     |
|---------------------------|--------|--------|--------|--------|----------|
| Mean yield (t/ha)         | 3.15   | 2.23   | 4.94   | 1.68   |          |
| PBA Pearl                 | 101    | 115    | 117    | 108    | No trial |
| PBA Butler <sup>db</sup>  |        | 110    | 113    | 103    |          |
| APB Bondi <sup>db</sup>   | 107    | 105    | 110    | 114    |          |
| PBA Taylor <sup>db</sup>  | 106    | 99     | 104    | 108    |          |
| PBA Noosa <sup>db</sup>   | 103    | 103    | 105    | 105    |          |
| PBA Percy                 | 98     | 107    | 104    | 90     |          |
| Kaspa                     | 105    | 99     | 100    | 99     |          |
| PBA Gunyah <sup>db</sup>  |        | 101    | 100    | 97     |          |
| PBA Oura <sup>db</sup>    | 96     | 101    | 99     | 98     |          |
| PBA Wharton <sup>db</sup> | 99     | 94     | 94     | 104    |          |
| Sowing date               | 21 May | 28 May | 25 May | 31 May |          |
| Rainfall J–M (mm)         | 102    | 36     | 46     | 28     |          |
| Rainfall A–O (mm)         | 413    | 282    | 388    | 179    |          |

No 2024 trial cooperator.

Learn more via the [NVT Long Term Yield Reporter](https://nvt.grdc.com.au/resources/crop-sowing-guides)

**Table 2: Minlaton field pea.**

| Year                      | 2020              | 2021  | 2022   | 2023   | 2024     |
|---------------------------|-------------------|-------|--------|--------|----------|
| Mean yield (t/ha)         |                   | 4.23  | 3.59   | 2.31   |          |
| APB Bondi <sup>db</sup>   | Compromised trial | 123   | 120    | 115    | No trial |
| PBA Pearl                 |                   | 110   | 116    | 108    |          |
| PBA Butler <sup>db</sup>  |                   | 114   | 111    | 107    |          |
| PBA Taylor <sup>db</sup>  |                   | 112   | 109    | 108    |          |
| PBA Noosa <sup>db</sup>   |                   | 106   | 106    | 104    |          |
| PBA Wharton <sup>db</sup> |                   | 102   | 101    | 102    |          |
| Kaspa                     |                   | 103   | 99     | 101    |          |
| PBA Gunyah <sup>db</sup>  |                   | 96    | 96     | 97     |          |
| PBA Oura <sup>db</sup>    |                   | 92    | 96     | 96     |          |
| PBA Percy                 |                   | 83    | 88     | 89     |          |
| Sowing date               | 21 May            | 1 Jun | 10 Jun | 10 May |          |
| Rainfall J–M (mm)         | 45                | 51    | 92     | 35     |          |
| Rainfall A–O (mm)         | 410               | 308   | 286    | 234    |          |

No 2024 trial cooperator.

Learn more via the [NVT Long Term Yield Reporter](https://nvt.grdc.com.au/resources/crop-sowing-guides)

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Table 3: Riverton field pea.

| Year                     | 2020   | 2021  | 2022   | 2023   | 2024  |
|--------------------------|--------|-------|--------|--------|-------|
| Mean yield (t/ha)        | 3.08   | 4.39  | 3.65   | 3.51   | 2.29  |
| APB Bondi <sup>Ⓛ</sup>   | 123    | 110   | 119    | 114    | 107   |
| PBA Butler <sup>Ⓛ</sup>  |        | 107   | 120    | 106    | 105   |
| PBA Taylor <sup>Ⓛ</sup>  | 115    | 105   | 109    | 108    | 108   |
| PBA Pearl                | 109    | 106   | 123    | 100    | 97    |
| PBA Noosa <sup>Ⓛ</sup>   | 108    | 103   | 108    | 102    | 104   |
| Kaspa                    | 107    | 101   | 102    | 102    | 105   |
| PBA Wharton <sup>Ⓛ</sup> | 99     | 100   | 94     | 104    | 101   |
| PBA Gunyah <sup>Ⓛ</sup>  |        | 99    | 99     | 96     | 101   |
| PBA Oura <sup>Ⓛ</sup>    | 91     | 97    | 97     | 94     | 96    |
| PBA Percy                | 88     | 95    | 101    | 84     | 96    |
| Sowing date              | 27 May | 2 Jun | 27 May | 24 May | 7 Jun |
| Rainfall J–M (mm)        | 42     | 45    | 59     | 39     | 6     |
| Rainfall A–O (mm)        | 401    | 354   | 484    | 233    | 250   |

Special thanks to 2024 trial cooperator, Bruce Farming.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 4: Willamulka field pea.

| Year                     | 2020   | 2021   | 2022  | 2023   | 2024  |
|--------------------------|--------|--------|-------|--------|-------|
| Mean yield (t/ha)        | 1.34   | 2.27   | 2.16  | 2.06   | 1.47  |
| APB Bondi <sup>Ⓛ</sup>   | 111    | 106    | 108   | 112    | 106   |
| PBA Taylor <sup>Ⓛ</sup>  | 110    | 109    | 105   | 109    | 107   |
| PBA Butler <sup>Ⓛ</sup>  |        | 111    | 108   | 106    | 99    |
| PBA Noosa <sup>Ⓛ</sup>   | 104    | 104    | 104   | 105    | 104   |
| Kaspa                    | 107    | 108    | 101   | 102    | 100   |
| PBA Pearl                | 97     | 98     | 109   | 106    | 103   |
| PBA Gunyah <sup>Ⓛ</sup>  |        | 102    | 100   | 99     | 100   |
| PBA Wharton <sup>Ⓛ</sup> | 101    | 98     | 98    | 101    | 103   |
| PBA Percy                | 91     | 100    | 101   | 95     | 97    |
| PBA Oura <sup>Ⓛ</sup>    | 93     | 95     | 99    | 97     | 100   |
| Sowing date              | 21 May | 27 May | 8 Jun | 22 May | 5 Jun |
| Rainfall J–M (mm)        | 32     | 36     | 135   | 52     | 20    |
| Rainfall A–O (mm)        | 273    | 234    | 238   | 216    | 155   |

Special thanks to 2024 trial cooperator, Kyffields Grain.  
Learn more via the [NVT Long Term Yield Reporter](#)

Field pea variety disease ratings – South Australia

The following table contains varietal ratings for the predominant diseases of field pea in South Australia. These ratings are updated annually by crop pathologists and were released in March 2025. Selected varieties of most relevance to South Australian growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and tolerance ratings.

Table 5: Field pea disease guide for South Australia.

| Variety                   | Bacterial blight | Downy mildew | Powdery mildew | RLN resistance<br>( <i>Pratylenchus neglectus</i> ) | RLN resistance<br>( <i>Pratylenchus thornei</i> ) |
|---------------------------|------------------|--------------|----------------|---|---|
| APB Bondi <sup>Ⓛ</sup>    | S                | RMR (S)      | RMR            | RMR   | MSS   |
| GIA Kastar <sup>Ⓛ</sup>   | S                | S            | RMR            | MR  | MS  |
| GIA Ourstar <sup>Ⓛ</sup>  | S (P)            | S            | S              | MRMS  | MS  |
| Kaspa                     | S                | S            | S              | RMR   | MRMS  |
| PBA Butler <sup>Ⓛ</sup>   | MS               | S            | S              | RMR   | MRMS  |
| PBA Gunyah <sup>Ⓛ</sup>   | S                | S            | S              | RMR   | MRMS  |
| PBA Noosa <sup>Ⓛ</sup>    | S                | MS           | S              | RMR   | MRMS  |
| PBA Oura <sup>Ⓛ</sup>     | MS               | S            | S              | MR  | MRMS (P)  |
| PBA Pearl                 | MS               | S            | S              | MR  | MRMS  |
| PBA Percy                 | MRMS             | S            | S              | RMR   | RMR   |
| PBA Taylor <sup>Ⓛ</sup>   | S                | S            | S              | RMR   | MRMS  |
| PBA Twilight <sup>Ⓛ</sup> | S                | S            | S              | MR  | MRMS  |
| PBA Wharton <sup>Ⓛ</sup>  | S                | S            | R (S)          | MR  | MRMS  |

Learn more via the [NVT Disease Ratings](#).  
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible,  
T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant,  
(P) = provisional rating, - hyphen indicates a range, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes,  
^ line contains a few susceptible off types, () show outlier.

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# LENTIL

## Lentil variety yield performance – Central South Australia

Yield results are presented from the top-performing varieties within each NVT location in the region for the past five seasons. Results are presented (as a percentage) for each variety relative to the mean trial yield for the location within each year. Varieties are listed in descending order of average yield over the period.

The Long Term Yield Reporter provides additional information on varieties not listed and can be viewed as a table or chart with error bars. Rainfall is provided for January to March (J–M) and April to October (A–O) and, where relevant, irrigation from April to October.

From 2024, selected trials may be managed as imidazolinone (IMI) tolerant and will not include conventional varieties.

**Table 1: Crystal Brook lentil.**

| Year              | 2020     | 2021     | 2022     | 2023     | 2024              |
|-------------------|----------|----------|----------|----------|-------------------|
| Mean yield (t/ha) |          |          |          |          |                   |
|                   | No trial | No trial | No trial | No trial | Compromised trial |
|                   |          |          |          |          |                   |
|                   |          |          |          |          |                   |
|                   |          |          |          |          |                   |
|                   |          |          |          |          |                   |
|                   |          |          |          |          |                   |
|                   |          |          |          |          |                   |
|                   |          |          |          |          |                   |
|                   |          |          |          |          |                   |
|                   |          |          |          |          |                   |
| Sowing date       |          |          |          |          | 6 Jun             |
| Rainfall J–M (mm) |          |          |          |          | 34                |
| Rainfall A–O (mm) |          |          |          |          | 138               |

Special thanks to 2024 trial cooperator.

**Table 2: Laura lentil.**

| Year                            | 2020   | 2021         | 2022   | 2023   | 2024     |
|---------------------------------|--------|--------------|--------|--------|----------|
| Mean yield (t/ha)               | 1.55   |              | 3.47   | 1.35   |          |
| GIA Thunder <sup>db*</sup>      | 132    | Trial failed | 149    | 108    | No trial |
| ALB Terrier <sup>db*</sup>      |        |              | 142    | 104    |          |
| PBA Jumbo2 <sup>db</sup>        | 116    |              | 134    | 102    |          |
| GIA Leader <sup>db*</sup>       | 109    |              | 111    | 97     |          |
| PBA Hallmark XT <sup>db*</sup>  | 100    |              | 114    | 96     |          |
| GIA Lightning <sup>db*</sup>    | 112    |              | 97     | 110    |          |
| PBA Hurricane XT <sup>db*</sup> | 103    |              | 103    | 99     |          |
| PBA KelpieXT <sup>db*</sup>     | 95     |              | 106    | 98     |          |
| PBA HighlandXT <sup>db*</sup>   | 95     |              | 98     | 101    |          |
| Nipper <sup>db</sup>            | 77     |              | 93     | 84     |          |
| Sowing date                     | 21 May | 28 May       | 25 May | 31 May |          |
| Rainfall J–M (mm)               | 102    | 36           | 46     | 28     |          |
| Rainfall A–O (mm)               | 413    | 282          | 388    | 179    |          |

No 2024 trial cooperator.

\* herbicide-tolerant variety.

Learn more via the [NVT Long Term Yield Reporter](#)

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| Table 3: Maitland lentil.       |                   |       |       |        |                   |
|---------------------------------|-------------------|-------|-------|--------|-------------------|
| Year                            | 2020              | 2021  | 2022  | 2023   | 2024 <sup>1</sup> |
| Mean yield (t/ha)               |                   | 3.55  | 2.29  | 2.34   |                   |
| GIA Thunder <sup>db*</sup>      | Compromised trial | 107   | 133   | 109    | Compromised trial |
| PBA Jumbo2 <sup>d</sup>         |                   | 100   | 125   | 106    |                   |
| ALB Terrier <sup>db*</sup>      |                   | 100   | 125   | 100    |                   |
| GIA Lightning <sup>db*</sup>    |                   | 110   | 99    | 104    |                   |
| PBA KelpieXT <sup>db*</sup>     |                   | 95    | 112   | 108    |                   |
| PBA HighlandXT <sup>db*</sup>   |                   | 105   | 99    | 105    |                   |
| PBA Hallmark XT <sup>db*</sup>  |                   | 100   | 104   | 98     |                   |
| PBA Hurricane XT <sup>db*</sup> |                   | 97    | 103   | 99     |                   |
| PBA Bolt <sup>d</sup>           |                   | 104   | 78    | 101    |                   |
| GIA Leader <sup>db*</sup>       |                   | 93    | 104   | 92     |                   |
| Sowing date                     | 14 May            | 1 Jun | 2 Jun | 13 May | 5 Jun             |
| Rainfall J–M (mm)               | 47                | 71    | 97    | 69     | 23                |
| Rainfall A–O (mm)               | 344               | 219   | 417   | 280    | 198               |

Special thanks to 2024 trial cooperator.  
\* herbicide-tolerant variety. <sup>1</sup> IMI-trial.  
Learn more via the [NVT Long Term Yield Reporter](#)

| Table 5: Owen lentil. |          |          |          |          |                   |
|-----------------------|----------|----------|----------|----------|-------------------|
| Year                  | 2020     | 2021     | 2022     | 2023     | 2024              |
| Mean yield (t/ha)     |          |          |          |          |                   |
|                       | No trial | No trial | No trial | No trial | Compromised trial |
|                       |          |          |          |          |                   |
|                       |          |          |          |          |                   |
|                       |          |          |          |          |                   |
|                       |          |          |          |          |                   |
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|                       |          |          |          |          |                   |
|                       |          |          |          |          |                   |
|                       |          |          |          |          |                   |
|                       |          |          |          |          |                   |
| Sowing date           |          |          |          |          | 30 May            |
| Rainfall J–M (mm)     |          |          |          |          | 13                |
| Rainfall A–O (mm)     |          |          |          |          | 184               |

Special thanks to 2024 trial cooperator, Nine Mile Farm.

| Table 4: Minlaton lentil.       |        |                   |        |        |                   |
|---------------------------------|--------|-------------------|--------|--------|-------------------|
| Year                            | 2020   | 2021              | 2022   | 2023   | 2024 <sup>1</sup> |
| Mean yield (t/ha)               | 3.53   |                   | 3.53   | 2.23   | 2.19              |
| GIA Thunder <sup>db*</sup>      | 112    | Compromised trial | 111    | 107    | 107               |
| ALB Terrier <sup>db*</sup>      |        |                   | 106    | 98     | 107               |
| GIA Lightning <sup>db*</sup>    | 105    |                   | 103    | 106    | 113               |
| GIA Leader <sup>db*</sup>       | 108    |                   | 98     | 91     | 102               |
| PBA Hurricane XT <sup>db*</sup> | 102    |                   | 100    | 98     | 99                |
| PBA HighlandXT <sup>db*</sup>   | 95     |                   | 101    | 105    | 98                |
| PBA Hallmark XT <sup>db*</sup>  | 100    |                   | 100    | 97     | 97                |
| PBA KelpieXT <sup>db*</sup>     | 94     |                   | 104    | 106    | 89                |
| GIA Metro <sup>db*</sup>        |        |                   | 84     | 75     | 76                |
| GIA Sire <sup>db*</sup>         |        |                   | 87     | 93     | 78                |
| Sowing date                     | 21 May | 1 Jun             | 10 Jun | 10 May | 30 May            |
| Rainfall J–M (mm)               | 45     | 51                | 92     | 35     | 28                |
| Rainfall A–O (mm)               | 410    | 308               | 286    | 234    | 145               |

Special thanks to 2024 trial cooperator.  
\* herbicide-tolerant variety. <sup>1</sup> IMI-trial.  
Learn more via the [NVT Long Term Yield Reporter](#)

| Table 6: Riverton lentil.       |        |       |        |        |                   |
|---------------------------------|--------|-------|--------|--------|-------------------|
| Year                            | 2020   | 2021  | 2022   | 2023   | 2024 <sup>1</sup> |
| Mean yield (t/ha)               | 3.95   | 4.00  | 4.60   | 2.85   | 2.11              |
| GIA Thunder <sup>db*</sup>      | 115    | 107   | 133    | 103    | 105               |
| ALB Terrier <sup>db*</sup>      |        | 102   | 125    | 100    | 105               |
| PBA KelpieXT <sup>db*</sup>     | 103    | 107   | 120    | 97     | 94                |
| GIA Lightning <sup>db*</sup>    | 109    | 104   | 92     | 107    | 107               |
| PBA Hurricane XT <sup>db*</sup> | 100    | 101   | 105    | 99     | 99                |
| PBA HighlandXT <sup>db*</sup>   | 101    | 101   | 98     | 101    | 100               |
| GIA Leader <sup>db*</sup>       | 97     | 96    | 105    | 97     | 100               |
| PBA Hallmark XT <sup>db*</sup>  | 96     | 95    | 104    | 97     | 99                |
| GIA Metro <sup>db*</sup>        |        | 85    | 84     | 84     | 85                |
| GIA Sire <sup>db*</sup>         |        | 83    | 66     | 90     | 88                |
| Sowing date                     | 27 May | 2 Jun | 27 May | 24 May | 7 Jun             |
| Rainfall J–M (mm)               | 42     | 45    | 59     | 39     | 6                 |
| Rainfall A–O (mm)               | 401    | 354   | 484    | 233    | 250               |

Special thanks to 2024 trial cooperator, Bruce Farming.  
\* herbicide-tolerant variety. <sup>1</sup> IMI-trial.  
Learn more via the [NVT Long Term Yield Reporter](#)

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| Table 7: Willamulka lentil.      |        |              |                   |                   |                   |
|----------------------------------|--------|--------------|-------------------|-------------------|-------------------|
| Year                             | 2020   | 2021         | 2022              | 2023              | 2024 <sup>1</sup> |
| Mean yield (t/ha)                | 1.50   |              |                   |                   |                   |
| PBA Hallmark XT <sup>db</sup> *  | 109    | Trial failed | Compromised trial | Compromised trial | Compromised trial |
| GIA Leader <sup>db</sup> *       | 108    |              |                   |                   |                   |
| GIA Thunder <sup>db</sup> *      | 107    |              |                   |                   |                   |
| GIA Lightning <sup>db</sup> *    | 103    |              |                   |                   |                   |
| PBA Jumbo2 <sup>db</sup>         | 100    |              |                   |                   |                   |
| PBA Hurricane XT <sup>db</sup> * | 99     |              |                   |                   |                   |
| PBA HighlandXT <sup>db</sup> *   | 98     |              |                   |                   |                   |
| PBA Ace <sup>db</sup>            | 93     |              |                   |                   |                   |
| PBA Bolt <sup>db</sup>           | 91     |              |                   |                   |                   |
| Nipper <sup>db</sup>             | 87     |              |                   |                   |                   |
| Sowing date                      | 21 May | 27 May       | 8 Jun             | 22 May            | 5 Jun             |
| Rainfall J–M (mm)                | 32     | 36           | 135               | 52                | 20                |
| Rainfall A–O (mm)                | 273    | 234          | 238               | 216               | 155               |

Special thanks to 2024 trial cooperator, Kyffields Grain.  
\* herbicide-tolerant variety. <sup>1</sup> IMI-trial.  
Learn more via the [NVT Long Term Yield Reporter](#)

Lentil variety disease ratings – South Australia

The following table contains varietal ratings for the predominant diseases of lentil in South Australia. These ratings are updated annually by crop pathologists and were released in March 2025. Selected varieties of most relevance to South Australian growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and tolerance ratings.

| Table 8: Lentil disease guide for South Australia. |  |  |                     |   |   |
|--|--|--|---------------------|---|---|
| Variety  | Ascochyta blight<br>(Pathotype 2 PBA<br>Hurricane XT <sup>db</sup> virulent) | Ascochyta blight<br>(Pathotype 1 Nipper <sup>db</sup><br>virulent) | Botrytis grey mould | RLN resistance<br>( <i>Pratylenchus neglectus</i> ) | RLN resistance<br>( <i>Pratylenchus thornei</i> ) |
| IMI-TOLERANT                                       |  |  |                     |   |   |
| ALB Terrier <sup>db</sup>                          | MR   | R  | MRMS                | MRMS (P)  | MRMS  |
| GIA Leader <sup>db</sup>                           | MR   | MR   | MRMS                | MRMS (P)  | MR (P)  |
| GIA Lightning <sup>db</sup>                        | MRMS (P)   | R (P)  | MS                  | MRMS (P)  | MR (P)  |
| GIA Metro <sup>db</sup>                            | RMR  | MR   | MRMS                | MRMS  | MRMS (P)  |
| GIA Sire <sup>db</sup>                             | MRMS (P)   | R (P)  | MS                  | MRMS  | MRMS (P)  |
| GIA Thunder <sup>db</sup>                          | MRMS (P)   | R (P)  | MRMS                | MRMS  | MR (P)  |
| PBA Hallmark XT <sup>db</sup>                      | MRMS   | RMR  | MRMS                | MR  | MRMS  |
| PBA HighlandXT <sup>db</sup>                       | MR   | MR   | MS                  | MRMS  | MRMS  |
| PBA Hurricane XT <sup>db</sup>                     | MRMS (P)   | RMR  | MS                  | MRMS  | MRMS  |
| PBA KelpieXT <sup>db</sup>                         | MRMS   | MRMS   | MS                  | MRMS  | MRMS  |
| CONVENTIONAL                                       |  |  |                     |   |   |
| PBA Bolt <sup>db</sup>                             | MRMS   | MR   | S                   | MR  | MR  |
| PBA Jumbo2 <sup>db</sup>                           | RMR  | R  | MS                  | MR  | MRMS  |

Learn more via the [NVT Disease Ratings](#).  
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible,  
T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant,  
(P) = provisional rating, - hyphen indicates a range, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes,  
^ line contains a few susceptible off types, ( ) show outlier.

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## Lupin variety yield performance – Central South Australia

Yield results are presented from the top-performing varieties within each NVT location in the region for the past five seasons. Results are presented (as a percentage) for each variety relative to the mean trial yield for the location within each year. Varieties are listed in descending order of average yield over the period.

The Long Term Yield Reporter provides additional information on varieties not listed and can be viewed as a table or chart with error bars. Rainfall is provided for January to March (J–M) and April to October (A–O) and, where relevant, irrigation from April to October.

**Table 1: Spalding narrow-leaf lupin.**

| Year                      | 2020                         | 2021   | 2022   | 2023  | 2024     |
|---------------------------|------------------------------|--------|--------|-------|----------|
| Mean yield (t/ha)         |                              | 1.37   | 4.81   | 2.44  |          |
| Coyote <sup>db</sup>      | Trial results below standard | 122    | 103    | 113   | No trial |
| PBA Bateman <sup>db</sup> |                              | 113    | 104    | 111   |          |
| PBA Gunyidi <sup>db</sup> |                              | 105    | 103    | 106   |          |
| PBA Jurien <sup>db</sup>  |                              | 94     | 106    | 106   |          |
| PBA Barlock <sup>db</sup> |                              | 94     | 105    | 105   |          |
| Rosemont <sup>db</sup>    |                              |        | 103    | 105   |          |
| Jenabillup <sup>db</sup>  |                              | 92     | 104    | 102   |          |
| Lawler <sup>db</sup>      |                              | 101    | 100    | 101   |          |
| Gidgee <sup>db</sup>      |                              | 99     | 100    | 101   |          |
| Mandelup <sup>db</sup>    |                              | 97     | 101    | 100   |          |
| Sowing date               | 27 Apr                       | 31 May | 26 May | 8 May |          |
| Rainfall J–M (mm)         | 84                           | 42     | 42     | 35    |          |
| Rainfall A–O (mm)         | 411                          | 290    | 458    | 297   |          |

No 2024 trial cooperator.

Learn more via the [NVT Long Term Yield Reporter](https://nvt.grdc.com.au/resources/long-term-yield-reporter)

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## Lupin variety disease ratings – South Australia

The following table contains varietal ratings for the predominant diseases of lupin in South Australia. These ratings are updated annually by crop pathologists and were released in March 2025.

Selected varieties of most relevance to South Australian growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and tolerance ratings.

**Table 2: Lupin disease guide for South Australia.**

| Variety                    | Anthraxnose | Bean yellow mosaic virus (BYMV) | Cucumber mosaic virus (CMV) | Phomopsis pod infection | Phomopsis stem infection | Sclerotinia stem rot |
|----------------------------|-------------|---------------------------------|-----------------------------|-------------------------|--------------------------|----------------------|
| Coromup <sup>db</sup>      | MRMS        | S (P)                           | MR                          | S                       | MR                       | S (P)                |
| Coyote <sup>db</sup>       | MS          | MR (P)                          | MRMS                        | MRMS                    | S                        | S (P)                |
| Gidgee <sup>db</sup>       | MRMS        | S (P)                           | MRMS                        | S                       | MR                       | S (P)                |
| Jenabillup <sup>db</sup>   | MRMS        |                                 | MRMS                        | MR                      | MS                       | S (P)                |
| Lawler <sup>db</sup>       | MS          | MS (P)                          | MRMS                        | MS                      | MR                       | S (P)                |
| Mandelup <sup>db</sup>     | MRMS        | S (P)                           | MRMS                        | S                       | MR                       | S (P)                |
| PBA Barlock <sup>db</sup>  | S           | MS (P)                          | MRMS                        | MR                      | MR                       | S (P)                |
| PBA Bateman <sup>db</sup>  | MRMS        | MR (P)                          | MR                          | S                       | RMR                      | S (P)                |
| PBA Gunyidir <sup>db</sup> | MS          | MS (P)                          | MRMS                        | MRMS                    | RMR                      | S (P)                |
| PBA Jurien <sup>db</sup>   | MS          | MRMS (P)                        | MS                          | MRMS                    | RMR                      | S (P)                |
| PBA Leeman <sup>db</sup>   | MR          | S (P)                           | MRMS                        | MRMS                    | MR                       | S (P)                |
| Rosemont <sup>db</sup>     | MRMS (P)    | MRMS (P)                        | MR                          | MRMS                    | MR                       | S (P)                |
| Wonga                      | MS          | MS (P)                          | MR                          | MR                      | MR                       | S (P)                |

Learn more via the [NVT Disease Ratings](#).

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant, (P) = provisional rating, - hyphen indicates a range, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes, ^ line contains a few susceptible off types, ( ) show outlier.

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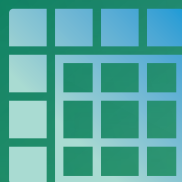
**Trial  
results**



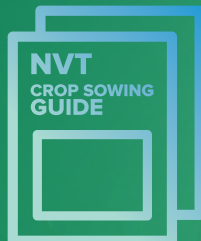
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