



NVT HARVEST REPORT



REVISED MAY 2024

Mallee South Australia and Victoria
Southern Region



Title:

NVT Harvest Report – Mallee South Australia and Victoria

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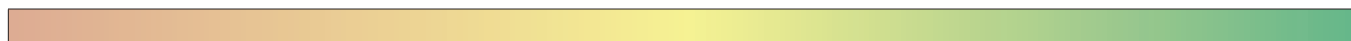
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LEGEND: MEAN VARIETY YIELD PERFORMANCE

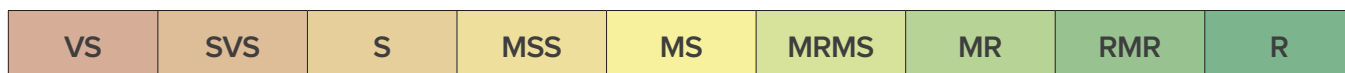


LOW

HIGH

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

DISEASE RATING COLOUR RANGE



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

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

Regularly visit 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

INTRODUCTION

The NVT Harvest Report - Mallee South Australia and Victoria provides information to support growers and advisers with decisions on variety selection for **Mallee South Australia and Victoria**. 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 2023 and long-term yield performance of varieties of crop species suitable for production in **Mallee South Australia and Victoria** 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 - Mallee South Australia and Victoria*, 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 **Mallee South Australia and Victoria**.

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](#).

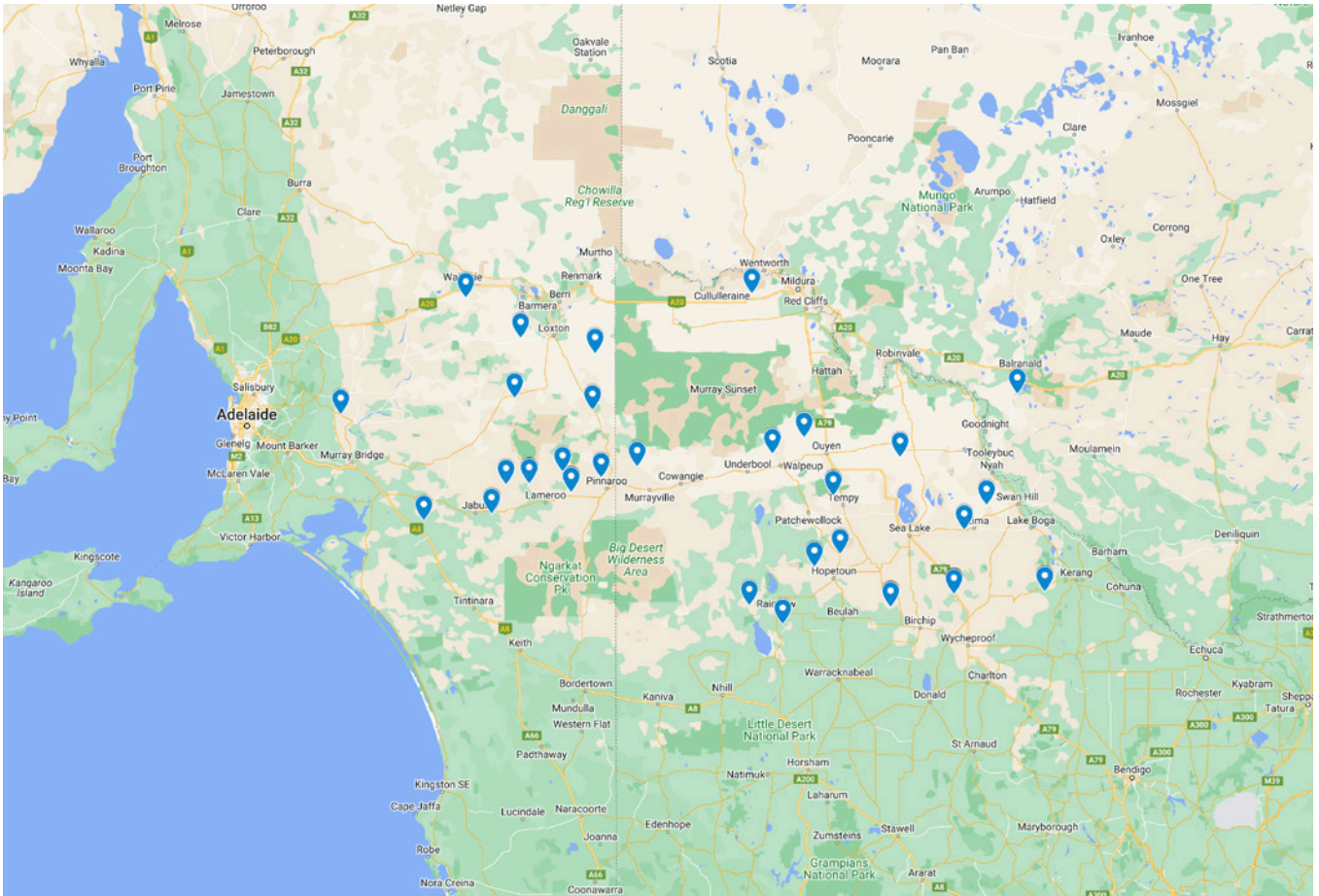
Trials listed as compromised are not suitable for making variety decisions. Results can be found in the [Quarantined trial reports](#).

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

NVT SITE LOCATIONS – Mallee South Australia and Victoria

Figure 1: Locality of NVT trial sites in Mallee South Australia and Victoria from 2019 to 2023.

SOURCE: NVT Online



See all NVT trial locations and view trial results at 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 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 ¹ |
|-------------------------------|-------------------------------|----------------------|-------------------------|---|
| Dozer [®] CL Plus | InterGrain | TBC | 3.90 | Dozer [®] CL Plus is a quick-mid maturing APW Clearfield [®] Plus wheat. Dozer [®] CL Plus pushes mid and quick-mid imidazolinone wheat yields and is an excellent alternative to Chief CL Plus. It is best suited to low-medium rainfall areas in Western Australia and South Australia. Dozer [®] CL Plus has strong lodging resistance, moderate early vigour, medium plant height and medium coleoptile length. Dozer [®] CL Plus offers good grain size and test weight. Proactive disease management of stripe rust and CCN in South Australia is recommended with Dozer [®] CL Plus to maximise yield and quality potential. |
| Genie [®] | InterGrain | AH | 3.50 | Genie [®] is a mid-slow maturing wheat and is an excellent alternative to RockStar [®] in greater than three-tonne-per-hectare yield environments. In these environments, the variety offers medium-high rainfall growers a yield improvement compared with RockStar [®] . Genie [®] , with its slightly later maturity than RockStar [®] and long coleoptile, enables earlier sowing opportunities to be maximised. Genie [®] has an excellent disease resistance package including useful stem rust and stripe rust resistances. It offers good test weight, moderate grain size and has a medium plant height. Preliminary internal data indicates Genie [®] has good sprouting tolerance. Genie [®] has an AH classification in the western and southern zones and an AH classification is expected for the south-eastern and northern zones in 2024. |
| LRPB Major [®] | LongReach Plant Breeders | AH | 4.00 | Mid-slow maturing spring wheat (similar to Beckom [®] and RockStar [®]) suitable for early to mid May seeding opportunities throughout southern NSW. Good disease package for southern NSW and Victorian production systems with improved Septoria resistance over its Beckom [®] parent. Strong yield performance in both acidic and sodic soil yield trials. AH classification southern NSW, Victoria and South Australia. Marketed by Pacific Seeds. |
| LRPB Matador [®] | LongReach Plant Breeders | AH | 3.50 | Mid-maturity AH wheat that has consistently outperformed Scepter [®] with an improved shorter canopy and better lodging tolerance. Improved powdery mildew (MS) and stripe rust resistance (MS) over Scepter [®] , adding some minor genes for both diseases. AH quality in SA and Victoria and commercialised by Pacific Seeds. |
| Soaker [®] | LongReach Plant Breeders | APW | 3.50 | Mid-maturity derived from Scepter [®] with agronomy traits being very similar. Addition of one imidazolinone resistance gene so it can be grown as a 'soaker' crop to break the imidazolinone cycle and cover off residual imidazolinone carryover into the wheat year. Quality APW in South Australia and Victoria and available from AG Schilling & Co. |
| Tomahawk CL Plus [®] | Australian Grain Technologies | APW | 4.15 | Scepter [®] -type Clearfield [®] variety with increased yield over Scepter [®] . The highest-yielding Clearfield [®] wheat variety in Western Australia, South Australia and Victoria. Tolerant to Clearfield [®] Intervix [®] herbicide. Similar disease resistance profile to Scepter [®] . Similar grain size and test weight as Scepter [®] . Mid-season maturity, similar to Scepter [®] . APW quality classification in SA, Victoria, southern NSW, classification for WA pending. |

* EPR amount is ex-GST, [®] denotes Plant Breeder's Rights apply. ¹ All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder.

Refer to the latest *Crop Sowing Guide* for further information at nvt.grdc.com.au/resources/crop-sowing-guides

Wheat variety yield performance – Mallee South Australia and Victoria

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.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------------|-------|--------|--------|--------|-------|
| Mean yield (t/ha) | 1.85 | 2.31 | 1.50 | 4.59 | 5.08 |
| RockStar ^{db} | 108 | 108 | 109 | 111 | 108 |
| Calibre ^{db} | | 109 | 115 | 108 | 107 |
| Tomahawk CL Plus ^{db*} | | | | 109 | 110 |
| Brumby ^{db} | | | 108 | 109 | 108 |
| Ballista ^{db} | 109 | 108 | 108 | 109 | 105 |
| LRPB Matador ^{db} | | | | 107 | 105 |
| Sunblade CL Plus ^{db*} | 103 | 104 | 103 | 109 | 106 |
| Cutlass ^{db} | 99 | 101 | 106 | 108 | 107 |
| Sunmaster ^{db} | | | 96 | 111 | 108 |
| Genie ^{db} | | | | | 103 |
| Scepter ^{db} | 104 | 104 | 103 | 105 | 106 |
| Beckom ^{db} | 101 | 102 | 100 | 108 | 106 |
| Boree ^{db} | | 105 | 105 | 105 | 104 |
| Catapult ^{db} | 104 | 104 | 106 | 104 | 105 |
| Soaker ^{db} | | | | | 106 |
| Sowing date | 7 May | 12 May | 25 May | 18 May | 9 May |
| Rainfall J–M (mm) | 15 | 41 | 53 | 66 | 48 |
| Rainfall A–O (mm) | 107 | 257 | 161 | 469 | 198 |

Special thanks to 2023 trial cooperator, Jake Lockhart.
* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------------|--------|--------|-------|--------|--------|
| Mean yield (t/ha) | 3.44 | 3.59 | 1.66 | 2.44 | 2.81 |
| Calibre ^{db} | | 114 | 111 | 112 | 115 |
| Tomahawk CL Plus ^{db*} | | | | 107 | 119 |
| LRPB Matador ^{db} | | | | | 108 |
| Ballista ^{db} | 112 | 116 | 107 | 112 | 109 |
| Brumby ^{db} | | | 106 | 108 | 112 |
| RockStar ^{db} | 118 | 108 | 106 | 112 | 108 |
| Scepter ^{db} | 113 | 110 | 104 | 103 | 111 |
| Vixen ^{db} | 101 | 125 | 103 | 103 | 103 |
| Sunblade CL Plus ^{db*} | 107 | 105 | 103 | 113 | 110 |
| Boree ^{db} | | 109 | 104 | 103 | 104 |
| Soaker ^{db} | | | | | 110 |
| Dozer ^{db} CL Plus* | | | 104 | | 101 |
| Catapult ^{db} | 115 | 103 | 104 | 101 | 105 |
| Sunmaster ^{db} | | | 99 | 113 | 113 |
| LRPB Major ^{db} | | | | | 103 |
| Sowing date | 22 May | 11 May | 2 Jun | 17 May | 10 May |
| Rainfall J–M (mm) | 12 | 56 | 57 | 29 | 53 |
| Rainfall A–O (mm) | 226 | 224 | 186 | 344 | 252 |

Special thanks to 2023 trial cooperator, David Slade, Arralka.
* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------------|--------|--------|--------|-------|-------|
| Mean yield (t/ha) | 4.80 | 5.36 | 2.50 | 4.22 | 4.66 |
| Tomahawk CL Plus ^{db*} | | | | 104 | 114 |
| Calibre ^{db} | | 109 | 121 | 105 | 109 |
| Ballista ^{db} | 115 | 109 | 118 | 109 | 108 |
| LRPB Matador ^{db} | | | | 99 | 108 |
| Vixen ^{db} | 118 | 110 | 116 | 101 | 106 |
| RockStar ^{db} | 112 | 111 | 110 | 103 | 109 |
| Brumby ^{db} | | | 108 | 101 | 110 |
| Sunblade CL Plus ^{db*} | 108 | 105 | 109 | 114 | 107 |
| Scepter ^{db} | 113 | 106 | 108 | 101 | 108 |
| Beckom ^{db} | 107 | 102 | 107 | 114 | 107 |
| Sunmaster ^{db} | | | 101 | 117 | 109 |
| Dozer ^{db} CL Plus* | | | 110 | | 104 |
| Soaker ^{db} | | | | | 108 |
| Genie ^{db} | | | | | 103 |
| Boree ^{db} | | 107 | 107 | 97 | 105 |
| Sowing date | 15 May | 14 May | 10 May | 9 May | 8 May |
| Rainfall J–M (mm) | 14 | 101 | 25 | 60 | 23 |
| Rainfall A–O (mm) | 197 | 205 | 172 | 384 | 118 |

Special thanks to 2023 trial cooperator, Linc Lehmann.
* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------------|--------|--------|--------|--------|--------|
| Mean yield (t/ha) | 4.61 | 4.60 | 2.91 | 5.68 | 4.29 |
| Tomahawk CL Plus ^{db*} | | | | 107 | 109 |
| Ballista ^{db} | 116 | 109 | 113 | 110 | 108 |
| Vixen ^{db} | 124 | 109 | 111 | 103 | 110 |
| Calibre ^{db} | | 110 | 116 | 104 | 109 |
| LRPB Matador ^{db} | | | | 102 | 111 |
| RockStar ^{db} | 111 | 110 | 111 | 108 | 108 |
| Brumby ^{db} | | | 109 | 105 | 107 |
| Sunblade CL Plus ^{db*} | 107 | 105 | 105 | 115 | 102 |
| Scepter ^{db} | 115 | 106 | 107 | 103 | 106 |
| Dozer ^{db} CL Plus* | | | 109 | | 108 |
| Beckom ^{db} | 108 | 103 | 103 | 115 | 99 |
| Kingston ^{db} | 110 | 107 | 101 | 104 | 108 |
| Boree ^{db} | | 107 | 108 | 100 | 107 |
| Soaker ^{db} | | | | | 104 |
| Sunmaster ^{db} | | | 98 | 122 | 97 |
| Sowing date | 16 May | 13 May | 13 May | 16 May | 15 May |
| Rainfall J–M (mm) | 16 | 87 | 31 | 43 | 30 |
| Rainfall A–O (mm) | 152 | 225 | 168 | 360 | 161 |

Special thanks to 2023 trial cooperator, Devon Mill.
* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

WHEAT
BARLEY
OAT
CANOLA
CHICKPEA
FABA BEAN
FIELD PEAS
LENTIL
LUPIN

Table 5: Manangatang main season wheat.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------------|-------------------|--------|--------|--------|-------|
| Mean yield (t/ha) | | 2.61 | 2.41 | 5.14 | 2.55 |
| Calibre ^{db} | Compromised trial | 113 | 125 | 104 | 117 |
| Tomahawk CL Plus ^{db*} | | | | 107 | 115 |
| Ballista ^{db} | | 109 | 117 | 108 | 111 |
| LRPB Matador ^{db} | | | | 102 | 115 |
| Vixen ^{db} | | 112 | 111 | 105 | 108 |
| RockStar ^{db} | | 107 | 110 | 105 | 113 |
| Brumby ^{db} | | | 109 | 104 | 113 |
| Sunblade CL Plus ^{db*} | | 101 | 107 | 111 | 104 |
| Scepter ^{db} | | 108 | 107 | 103 | 109 |
| Dozer ^{db} CL Plus* | | | 110 | | 109 |
| Beckom ^{db} | | 100 | 104 | 111 | 101 |
| Boree ^{db} | | 108 | 107 | 100 | 110 |
| Genie ^{db} | | | | | 101 |
| Reilly ^{db} | | 102 | 113 | 104 | 99 |
| Soaker ^{db} | | | | 107 | |
| Sowing date | 8 May | 12 May | 25 May | 17 May | 8 May |
| Rainfall J–M (mm) | 18 | 48 | 48 | 41 | 25 |
| Rainfall A–O (mm) | 133 | 227 | 150 | 462 | 144 |

Special thanks to 2023 trial cooperator, Brad Plant.

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

Table 6: Merrinee main season wheat.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------------|--------------|--------|--------|--------|-------|
| Mean yield (t/ha) | | 2.35 | 1.51 | 3.30 | 4.45 |
| Calibre ^{db} | Trial failed | 107 | 119 | 113 | 111 |
| RockStar ^{db} | | 106 | 110 | 113 | 112 |
| Brumby ^{db} | | | 109 | 110 | 112 |
| LRPB Matador ^{db} | | | | 109 | 109 |
| Tomahawk CL Plus ^{db*} | | | | 106 | 111 |
| Ballista ^{db} | | 105 | 112 | 110 | 107 |
| Catapult ^{db} | | 104 | 106 | 106 | 109 |
| Boree ^{db} | | 105 | 108 | 107 | 107 |
| Dozer ^{db} CL Plus* | | | 109 | | 105 |
| Scepter ^{db} | | 104 | 106 | 104 | 108 |
| LRPB Major ^{db} | | | | | 106 |
| Cutlass ^{db} | | 100 | 98 | 107 | 107 |
| Sunblade CL Plus ^{db*} | | 102 | 102 | 106 | 105 |
| Soaker ^{db} | | | | | 107 |
| LRPB Trojan ^{db} | 102 | 97 | 104 | 107 | |
| Sowing date | 6 May | 12 May | 25 May | 10 May | 9 May |
| Rainfall J–M (mm) | 4 | 49 | 55 | 86 | 19 |
| Rainfall A–O (mm) | 49 | 235 | 128 | 317 | 148 |

Special thanks to 2023 trial cooperator, Matt Curtis.

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

Table 7: Nangari main season wheat.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------------|--------|-------|--------|-------|--------|
| Mean yield (t/ha) | 0.53 | 3.12 | 1.30 | 4.11 | 2.42 |
| Calibre ^{db} | | 111 | 109 | 105 | 118 |
| Tomahawk CL Plus ^{db*} | | | | 104 | 124 |
| Ballista ^{db} | 122 | 109 | 105 | 110 | 110 |
| LRPB Matador ^{db} | | | | | 111 |
| Vixen ^{db} | 131 | 109 | 106 | 107 | 109 |
| RockStar ^{db} | 105 | 111 | 105 | 109 | 104 |
| Brumby ^{db} | | | 106 | 105 | 110 |
| Dozer ^{db} CL Plus* | | | 104 | | 102 |
| Sunblade CL Plus ^{db*} | 102 | 102 | 101 | 110 | 107 |
| Scepter ^{db} | 102 | 105 | 106 | 102 | 113 |
| Boree ^{db} | | 108 | 105 | 103 | 104 |
| Soaker ^{db} | | | | | 111 |
| Genie ^{db} | | | | | 94 |
| Reilly ^{db} | | | | 105 | 102 |
| Razor CL Plus ^{db*} | 113 | 100 | 104 | 97 | 115 |
| Sowing date | 10 May | 5 May | 28 May | 7 May | 29 May |
| Rainfall J–M (mm) | 5 | 55 | 41 | 34 | 37 |
| Rainfall A–O (mm) | 31 | 212 | 139 | 386 | 120 |

Special thanks to 2023 trial cooperator, Clinton Scholz.

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

Table 8: Palmer main season wheat.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|-----------------------------------|--------|-------|-------|-------|--------|
| Mean yield (t/ha) | 0.93 | 2.23 | 2.12 | 2.87 | 2.69 |
| Calibre ^{db} | | 118 | 114 | 114 | 106 |
| Tomahawk CL Plus ^{db*} | | | | 102 | 120 |
| LRPB Matador ^{db} | | | | | 108 |
| Ballista ^{db} | 109 | 111 | 111 | 114 | 105 |
| Vixen ^{db} | 104 | 103 | 111 | 111 | 113 |
| Brumby ^{db} | | | 103 | 105 | 107 |
| Scepter ^{db} | 113 | 110 | 104 | 101 | 111 |
| RockStar ^{db} | 108 | 110 | 104 | 111 | 102 |
| Dozer ^{db} CL Plus* | | | 108 | | 102 |
| Boree ^{db} | | 105 | 105 | 107 | 104 |
| Razor CL Plus ^{db*} | 109 | 104 | 107 | 98 | 111 |
| Sunblade CL Plus ^{db*} | 105 | 111 | 101 | 104 | 104 |
| Soaker ^{db} | | | | | 111 |
| Reilly ^{db} | | | | 111 | 96 |
| LRPB Anvil ^{db} CL Plus* | | | 108 | 92 | 112 |
| Sowing date | 14 May | 4 May | 8 Jun | 9 May | 16 May |
| Rainfall J–M (mm) | 6 | 32 | 51 | 55 | 42 |
| Rainfall A–O (mm) | 121 | 222 | 285 | 316 | 175 |

Special thanks to 2023 trial cooperator, Steen Paech, Hillydale.

* 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: Pinnaroo main season wheat.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------------|---------------|--------------|--------------|---------------|---------------|
| Mean yield (t/ha) | 2.18 | 4.21 | 0.88 | 3.78 | 2.56 |
| Calibre ^{db} | | 113 | 123 | 109 | 120 |
| Tomahawk CL Plus ^{db*} | | | | 109 | 123 |
| Ballista ^{db} | 108 | 112 | 124 | 114 | 110 |
| LRPB Matador ^{db} | | | | | 112 |
| RockStar ^{db} | 113 | 112 | 113 | 106 | 105 |
| Vixen ^{db} | 97 | 109 | 129 | 112 | 109 |
| Brumby ^{db} | | | 112 | 103 | 111 |
| Sunblade CL Plus ^{db*} | 104 | 107 | 113 | 113 | 106 |
| Scepter ^{db} | 105 | 107 | 114 | 103 | 113 |
| Dozer ^{db} CL Plus* | | | 115 | | 103 |
| Soaker ^{db} | | | | | 110 |
| Boree ^{db} | | 108 | 110 | 101 | 106 |
| Sunmaster ^{db} | | | 106 | 112 | 103 |
| Genie ^{db} | | | | | 94 |
| Reilly ^{db} | | | | 111 | 102 |
| Sowing date | 13 May | 5 May | 2 Jun | 10 May | 31 May |
| Rainfall J–M (mm) | 8 | 85 | 32 | 61 | 25 |
| Rainfall A–O (mm) | 157 | 236 | 184 | 363 | 218 |

Special thanks to 2023 trial cooperator, Danyon Hawthorne, Pine Park.

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

Table 10: Quambatook main season wheat.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------------|---------------|---------------|--------------|---------------|--------------|
| Mean yield (t/ha) | 2.63 | 3.12 | 3.84 | 4.63 | 5.52 |
| Vixen ^{db} | 123 | 116 | 121 | 98 | 110 |
| Ballista ^{db} | 115 | 112 | 114 | 109 | 108 |
| Tomahawk CL Plus ^{db*} | | | | 100 | 111 |
| LRPB Matador ^{db} | | | | 98 | 111 |
| Calibre ^{db} | | 113 | 113 | 104 | 109 |
| RockStar ^{db} | 107 | 109 | 108 | 107 | 111 |
| Dozer ^{db} CL Plus* | | | 111 | | 108 |
| Sunblade CL Plus ^{db*} | 107 | 104 | 105 | 115 | 104 |
| Brumby ^{db} | | | 107 | 102 | 110 |
| Genie ^{db} | | | | | 103 |
| Beckom ^{db} | 106 | 102 | 104 | 115 | 102 |
| Scepter ^{db} | 106 | 107 | 109 | 99 | 107 |
| Kingston ^{db} | 109 | 105 | 107 | 95 | 111 |
| Boree ^{db} | | 108 | 108 | 97 | 108 |
| Sunmaster ^{db} | | | 100 | 120 | 102 |
| Sowing date | 15 May | 13 May | 6 May | 17 May | 8 May |
| Rainfall J–M (mm) | 34 | 77 | 57 | 82 | 62 |
| Rainfall A–O (mm) | 176 | 222 | 171 | 404 | 210 |

Special thanks to 2023 trial cooperator, Ash Marshall.

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

Table 11: Ultima main season wheat.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 | |
|---------------------------------|-------------------|---------------|---------------|---------------|---------------|-----|
| Mean yield (t/ha) | | 2.27 | 1.46 | 5.45 | 2.55 | |
| Ballista ^{db} | Compromised trial | | 112 | 115 | 111 | 113 |
| Genie ^{db} | | | | | | 105 |
| Sunblade CL Plus ^{db*} | | | 105 | 108 | 114 | 107 |
| Calibre ^{db} | | | 114 | 122 | 101 | 116 |
| Vixen ^{db} | | | 115 | 104 | 108 | 110 |
| RockStar ^{db} | | | 107 | 112 | 107 | 112 |
| Beckom ^{db} | | | 105 | 104 | 113 | 104 |
| LRPB Scout ^{db} | | | 100 | 112 | 113 | 103 |
| LRPB Matador ^{db} | | | | | 102 | 113 |
| Sunmaster ^{db} | | | | 98 | 117 | 101 |
| Tomahawk CL Plus ^{db*} | | | | | 101 | 113 |
| Reilly ^{db} | | | 103 | 112 | 110 | 104 |
| Dozer ^{db} CL Plus* | | | | 108 | | 109 |
| Brumby ^{db} | | | | 109 | 101 | 111 |
| Ascot ^{db} | | | 99 | 99 | 111 | 100 |
| Sowing date | 8 May | 11 May | 11 May | 11 May | 11 May | |
| Rainfall J–M (mm) | 18 | 47 | 29 | 63 | 34 | |
| Rainfall A–O (mm) | 161 | 233 | 199 | 453 | 209 | |

Special thanks to 2023 trial cooperator, Warrick Grey.

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

Table 12: Walpeup main season wheat.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------------|--------------|---------------|---------------|---------------|---------------|
| Mean yield (t/ha) | 2.43 | 4.15 | 2.36 | 4.22 | 4.87 |
| Tomahawk CL Plus ^{db*} | | | | 107 | 112 |
| Calibre ^{db} | | 108 | 115 | 108 | 103 |
| Ballista ^{db} | 115 | 107 | 112 | 111 | 104 |
| Vixen ^{db} | 120 | 107 | 111 | 105 | 105 |
| LRPB Matador ^{db} | | | | 104 | 103 |
| Sunblade CL Plus ^{db*} | 105 | 104 | 106 | 113 | 108 |
| Beckom ^{db} | 103 | 103 | 104 | 113 | 110 |
| Brumby ^{db} | | | 111 | 104 | 106 |
| RockStar ^{db} | 110 | 108 | 111 | 106 | 104 |
| Sunmaster ^{db} | | | 101 | 114 | 114 |
| Scepter ^{db} | 112 | 106 | 109 | 103 | 107 |
| Soaker ^{db} | | | | | 108 |
| Dozer ^{db} CL Plus* | | | 108 | | 100 |
| Genie ^{db} | | | | | 103 |
| Boree ^{db} | | 106 | 108 | 100 | 101 |
| Sowing date | 7 May | 11 May | 25 May | 14 May | 11 May |
| Rainfall J–M (mm) | 9 | 85 | 54 | 86 | 55 |
| Rainfall A–O (mm) | 118 | 247 | 189 | 444 | 228 |

Special thanks to 2023 trial cooperator, Mick Pole.

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

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Table 13: Wanbi main season wheat.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------------|--------|-------|--------------|-------------------|--------|
| Mean yield (t/ha) | 0.45 | 2.87 | | | 2.43 |
| Calibre ^{db} | | 111 | Trial failed | Compromised trial | 116 |
| Brumby ^{db} | | | | | 112 |
| Tomahawk CL Plus ^{db*} | | | | | 119 |
| RockStar ^{db} | 102 | 110 | | | 109 |
| Ballista ^{db} | 93 | 107 | | | 111 |
| LRPB Matador ^{db} | | | | | 113 |
| Cutlass ^{db} | 130 | 109 | | | 99 |
| Scepter ^{db} | 73 | 107 | | | 111 |
| Sunblade CL Plus ^{db*} | 105 | 106 | | | 106 |
| Catapult ^{db} | 90 | 107 | | | 107 |
| LRPB Major ^{db} | | | | | 103 |
| Boree ^{db} | | 105 | | | 108 |
| Soaker ^{db} | | | | | 108 |
| Sunmaster ^{db} | | | | | 102 |
| Dozer ^{db} CL Plus* | | | | | 107 |
| Sowing date | 22 May | 5 May | 25 May | 16 May | 30 May |
| Rainfall J–M (mm) | 7 | 110 | 19 | 47 | 21 |
| Rainfall A–O (mm) | 111 | 237 | 139 | 332 | 159 |

Special thanks to 2023 trial cooperator, Darren Eatts.

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

Table 14: Wunkar main season wheat.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------------|--------|-------|--------------|--------|--------|
| Mean yield (t/ha) | 0.45 | 2.28 | | 3.31 | 1.67 |
| Calibre ^{db} | | 112 | Trial failed | 103 | 125 |
| RockStar ^{db} | 113 | 109 | | 108 | 110 |
| Ballista ^{db} | 124 | 108 | | 103 | 114 |
| Brumby ^{db} | | | | 104 | 113 |
| Cutlass ^{db} | 84 | 104 | | 115 | 100 |
| LRPB Matador ^{db} | | | | | 115 |
| LRPB Major ^{db} | | | | | 105 |
| Tomahawk CL Plus ^{db*} | | | | 96 | 122 |
| Sunblade CL Plus ^{db*} | 104 | 104 | | 107 | 106 |
| Genie ^{db} | | | | | 97 |
| Catapult ^{db} | 107 | 105 | | 102 | 108 |
| Dozer ^{db} CL Plus* | | | | | 107 |
| Boree ^{db} | | 105 | | 100 | 108 |
| Scepter ^{db} | 113 | 104 | | 98 | 113 |
| LRPB Scout ^{db} | 111 | 103 | | 104 | 101 |
| Sowing date | 12 Jun | 6 May | 28 May | 26 May | 30 May |
| Rainfall J–M (mm) | 2 | 70 | 22 | 51 | 31 |
| Rainfall A–O (mm) | 81 | 187 | 137 | 409 | 119 |

Special thanks to 2023 trial cooperator, David Gibbs.

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

Table 15: Birchip early season wheat.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|--------------------------------|--------|--------|--------|--------|--------|
| Mean yield (t/ha) | 4.60 | 5.30 | 3.76 | 4.46 | 5.81 |
| Genie ^{db} | | | | | 109 |
| IGW6755 | | | | | 103 |
| LRPB Major ^{db} | | | | | 108 |
| RockStar ^{db} | 107 | 109 | 117 | 104 | 105 |
| LRPB Beaufort ^{db} | 101 | 106 | 105 | 115 | 107 |
| Denison ^{db} | | 109 | 106 | 97 | 109 |
| Catapult ^{db} | 98 | 110 | 111 | 92 | 106 |
| Cutlass ^{db} | | 104 | 105 | 101 | 103 |
| Coota ^{db} | | 101 | 104 | 92 | 104 |
| DS Pascal ^{db} | 109 | 94 | 102 | 104 | 94 |
| Brumby ^{db} | | | | | 105 |
| Sheriff CL Plus ^{db*} | 103 | 100 | 106 | 89 | 97 |
| Illabo ^{db} | 98 | 95 | 90 | 108 | 97 |
| LRPB Nighthawk ^{db} | 97 | 100 | 95 | 101 | 94 |
| EG Titanium | 103 | 92 | 96 | 98 | 98 |
| Sowing date | 16 Apr | 16 Apr | 19 Apr | 18 Apr | 19 Apr |
| Rainfall J–M (mm) | 14 | 101 | 25 | 60 | 23 |
| Rainfall A–O (mm) | 197 | 205 | 172 | 384 | 118 |
| Irrigation A–O (mm) | 16 | | 15 | | |

Special thanks to 2023 trial cooperator, Linc Lehmann.

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

Table 16: Pinnaroo early season wheat.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|--------------------------------|--------|--------|-------------------|--------|--------|
| Mean yield (t/ha) | | 3.72 | | 2.92 | 4.27 |
| IGW6755 | | | Compromised trial | | 95 |
| DS Bennett ^{db} | | 122 | | 115 | 89 |
| Valiant ^{db} CL Plus* | | | | 109 | 103 |
| RockStar ^{db} | | 118 | | 111 | 90 |
| Denison ^{db} | | 113 | | 98 | 103 |
| Illabo ^{db} | | 96 | | 104 | 110 |
| Cutlass ^{db} | | 108 | | 102 | 99 |
| Catapult ^{db} | | 113 | | 92 | 95 |
| Longsword ^{db} | | 92 | | 83 | 119 |
| EG Titanium | | 86 | | 108 | 99 |
| LRPB Nighthawk ^{db} | | 99 | | 88 | 101 |
| DS Pascal ^{db} | | 92 | | 111 | 91 |
| Brumby ^{db} | | | | | 97 |
| Yitpi | | 84 | | 103 | 98 |
| LRPB Major ^{db} | | | | | 94 |
| Sowing date | 11 Apr | 15 Apr | 19 Apr | 19 Apr | 13 Apr |
| Rainfall J–M (mm) | 8 | 85 | 32 | 61 | 25 |
| Rainfall A–O (mm) | 157 | 236 | 184 | 363 | 218 |
| Irrigation A–O (mm) | 15 | 15 | | 10 | |

Special thanks to 2023 trial cooperator, Skeet Lawson.

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

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Wheat variety quality – Mallee South Australia and Victoria

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 2022 and 2023 NVT averaged for trials in the Mallee South Australia and Victoria 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 13 NVT sites in Mallee SA–Victoria in 2022.

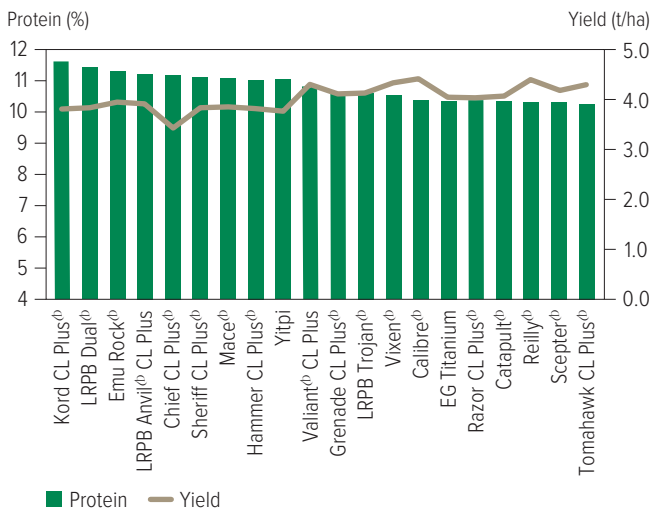


Figure 2: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from 14 NVT sites in Mallee SA–Victoria in 2023.

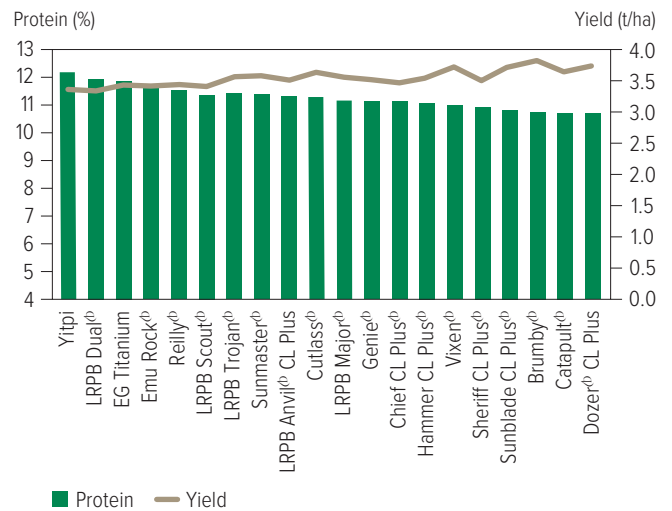


Figure 3: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from two NVT sites in Mallee SA–Victoria in 2022.

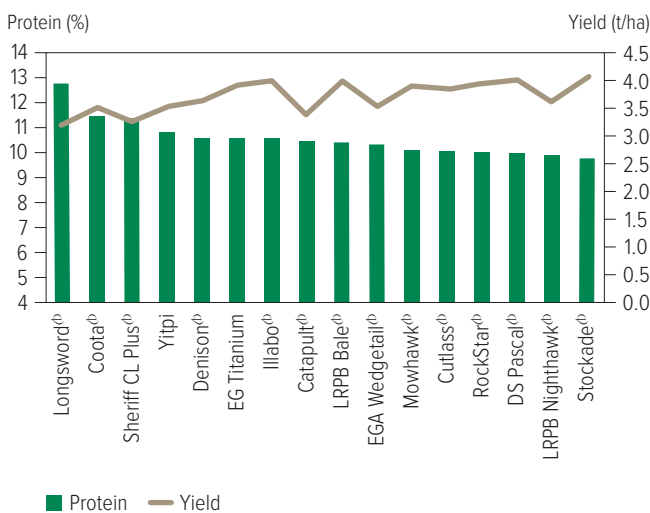
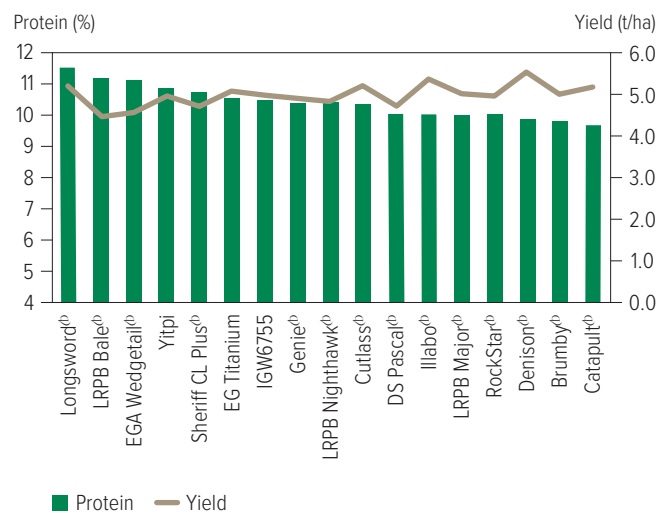


Figure 4: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from two NVT sites in Mallee SA–Victoria in 2023.



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Test weight comparisons

Figure 5: Test weight (kg/hL) comparisons for main season wheat varieties from 13 NVT sites in Mallee SA–Victoria in 2022.

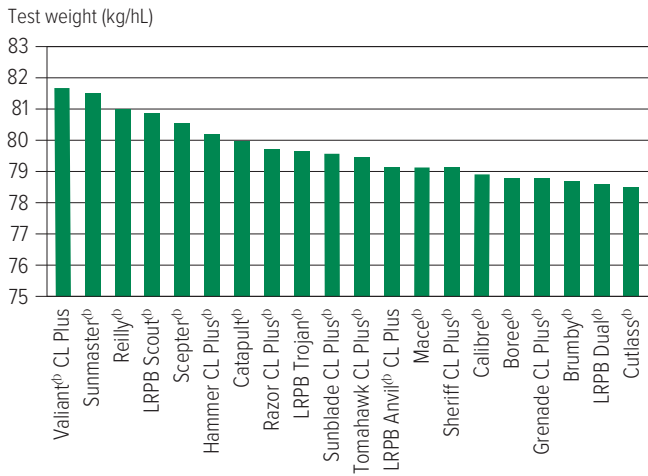


Figure 6: Test weight (kg/hL) comparisons for main season wheat varieties from 14 NVT sites in Mallee SA–Victoria in 2023.

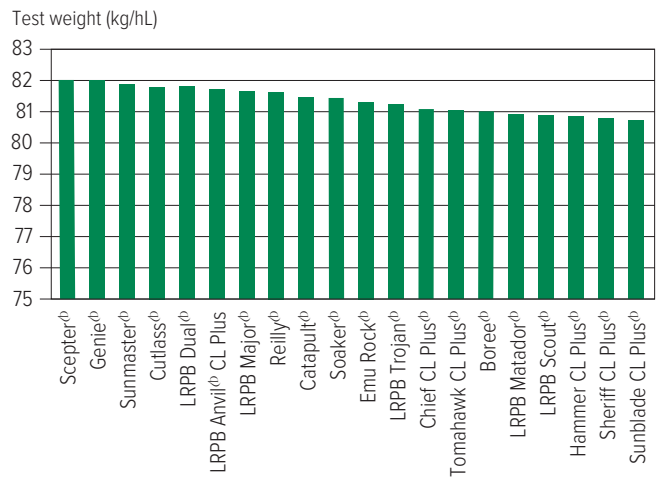


Figure 7: Test weight (kg/hL) comparisons for early season wheat varieties from two NVT sites in Mallee SA–Victoria in 2022.

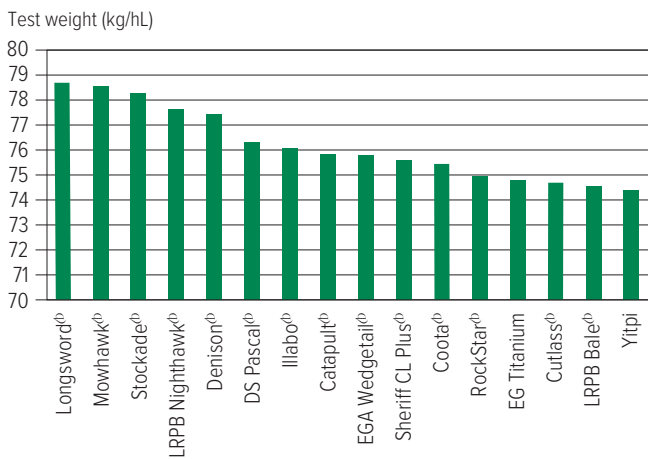
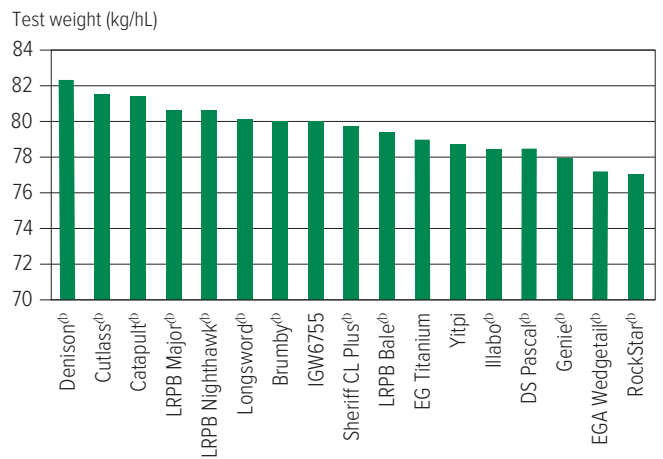


Figure 8: Test weight (kg/hL) comparisons for early season wheat varieties from two NVT sites in Mallee SA–Victoria in 2023.



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Screenings comparisons

Figure 9: Screenings (<2.0mm) comparisons for main season wheat varieties from 13 NVT sites in Mallee SA–Victoria in 2022.

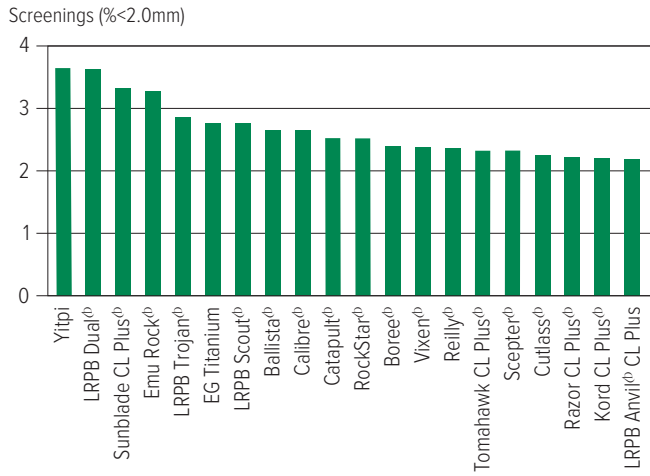


Figure 10: Screenings (<2.0mm) comparisons for main season wheat varieties from 14 NVT sites in Mallee SA–Victoria in 2023.

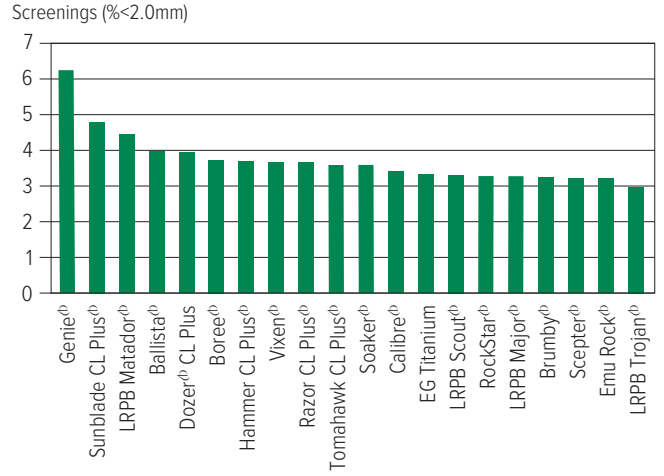


Figure 11: Screenings (<2.0mm) comparisons for early season wheat varieties from two NVT sites in Mallee SA–Victoria in 2022.

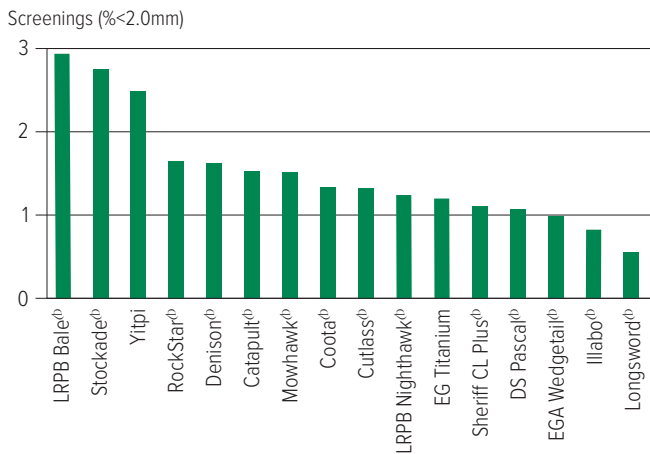
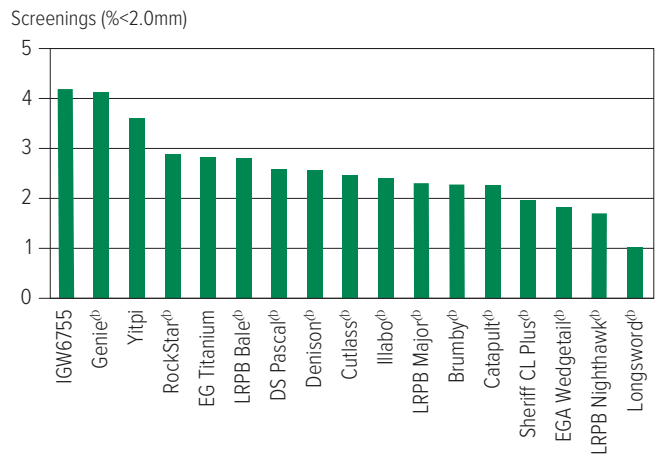


Figure 12: Screenings (<2.0mm) comparisons for early season wheat varieties from two NVT sites in Mallee SA–Victoria in 2023.



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Wheat variety disease ratings – South Australia and Victoria

The following tables contain varietal ratings for the predominant diseases of wheat in South Australia and Victoria. These ratings are updated annually by crop pathologists and were released in March 2024. Selected varieties of most relevance to South Australian and Victorian growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and tolerance ratings.

Table 17: Wheat disease guide for South Australia.

| Variety | Stem rust | Stripe rust (east coast resistance) | Leaf rust | Septoria tritici blotch | Yellow leaf spot | Powdery mildew | RLN resistance (<i>Pratylenchus neglectus</i>) | RLN resistance (<i>Pratylenchus thornei</i>) | CCN | Eyespot | Crown rot | Black point |
|---------------------------------|-----------|-------------------------------------|-----------|-------------------------|------------------|----------------|--|--|--------|---------|-----------|-------------|
| Anapurna | MSS | RMR | MS | MRMS | MRMS | RMR | MS | S (P) | MRMS | | SVS | MSS |
| Ascot [Ⓢ] | MRMS | MSS | RMR | S | MRMS | S | S | S | MR | S | S | S |
| Ballista [Ⓢ] | MR | MSS | S | SVS | MS | SVS | S | MRMS | MRMS | S | S | MS |
| Beckom [Ⓢ] | MRMS | MRMS | MSS | S | MSS | MSS | S | MSS | R | | S | MRMS |
| BigRed [Ⓢ] | S | RMR | MRMS | MR | MR | RMR | MS | MS | S | | MSS | MR |
| Boree [Ⓢ] | MR | SVS | S | SVS | MRMS | SVS | S | MSS | MSS | | S | S |
| Borlaug 100 [Ⓢ] | MR | SVS | MR | MSS | MRMS | S | S | MS | MS | MSS (P) | MSS | MSS |
| Brumby [Ⓢ] | MR | MS | SVS | S | MRMS | MR/S | MRMS | MS (P) | MRMS | S | S | MSS |
| Calibre [Ⓢ] | MR | S | S | S | MRMS | MSS | S | MSS | MRMS | S | S | MSS |
| Catapult [Ⓢ] | MR | S | S | MSS | MRMS | S | S | MS | R | S | MSS | S |
| Chief CL Plus [Ⓢ] | MR | SVS | MR | S | MRMS | SVS | MRMS | MSS | MS | MSS | MSS | MS |
| Coolah [Ⓢ] | MR | MSS | RMR | MSS | MSS | S | S | MS | S | | MSS | S |
| Coota [Ⓢ] | RMR | S | MR | S | MSS | S | MR | MS | MR | S | MSS | MS |
| Cosmick [Ⓢ] | MS | MSS | SVS | SVS | MRMS | MSS | MSS | MSS | S | | S | MRMS |
| Cutlass [Ⓢ] | R | MSS | RMR | MSS | MSS | MSS | MSS | MSS | MR | | S | MS |
| Denison [Ⓢ] | MS | S | S | MSS | MRMS | S | S | S | MS | S | MSS | MS |
| Devil [Ⓢ] | S | SVS | SVS | SVS | MRMS | S | MSS | S | MSS | S | MSS | MSS |
| Dozer [Ⓢ] CL Plus | MS | S | MSS | S (P) | MS | S | MRMS | S | MS (P) | SVS (P) | S | MRMS (P) |
| DS Bennett [Ⓢ] | MS | S | SVS | MSS | MRMS | R | S | S | S | | VS | MSS |
| DS Pascal [Ⓢ] | MSS | MRMS | MRMS# | MSS | MS | RMR | S | S | S | | S | MS |
| EG Jet [Ⓢ] | S | MRMS | S | MSS | MRMS | SVS | S | S | MRMS | | S | MS |
| EG Titanium | MS | MR | MS | MSS | MSS | S | MSS | MSS | R | S | MSS | MSS |
| EGA Wedgetail [Ⓢ] | MRMS | MS | MSS | MSS | MSS | MSS | S | VS | S | | S | MS |
| Einstein | S | RMR | S | MSS | MR | | MRMS | S | S | | S (P) | R |
| Emu Rock [Ⓢ] | MS | SVS | SVS | S | MS | MSS | MSS | S | S | | MSS | MSS |
| Genie [Ⓢ] | MS (P) | MRMS (P) | S (P) | S (P) | MRMS (P) | SVS (P) | | | | | | |
| Hammer CL Plus [Ⓢ] | MR | MS | S | MSS | MRMS | S | MSS | S | MRMS | S | MSS | MRMS |
| Hyperno [Ⓢ] | RMR | MR | RMR | MSS | MRMS | MS | MS | RMR | MS | | SVS | MS |
| IGW6755 | MRMS | MSS | MS | MSS | MRMS | S | MSS | MR | MSS | MSS (P) | S | MR |
| Illabo [Ⓢ] | MRMS | MRMS | S | MSS | MS | R | MSS | MSS | MRMS | S | S | MRMS |
| Jillaroo [Ⓢ] | MS | MSS | S | S | MS | SVS | S | MS (P) | MS | S | S | MS |
| Kingston [Ⓢ] | S | MSS | S | S | MSS | S | S | MRMS | R | S | S | MSS |
| Longford | RMR | RMR | RMR | MRMS/S | MRMS | RMR | S | S | MS | MSS (P) | MSS | MRMS |
| Longsword [Ⓢ] | MR | MRMS/MS | MS | MS | MRMS | S | MRMS | MRMS | MRMS | S | MSS | MS |
| LRPB Anvil [Ⓢ] CL Plus | MR | S | SVS | VS | MSS | SVS | MSS | S | MS | S | MSS | S |
| LRPB Avenger [Ⓢ] | MS | S | S | S | MS | SVS | MSS | MRMS | MRMS | S | S | MRMS |
| LRPB Bale [Ⓢ] | MRMS | MRMS | MSS | MSS | SVS | MS | S | S | R | S | S | MS |

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Table 17: Wheat disease guide for South Australia (continued).

| Variety | Stem rust | Stripe rust (east coast resistance) | Leaf rust | Septoria tritici blotch | Yellow leaf spot | Powdery mildew | RLN resistance (<i>Pratylenchus neglectus</i>) | RLN resistance (<i>Pratylenchus thornei</i>) | CCN | Eyespot | Crown rot | Black point |
|--------------------------------|-----------|-------------------------------------|-----------|-------------------------|------------------|----------------|--|--|----------|---------|-----------|-------------|
| LRPB Beaufort ^{db} | SVS | RMR | MSS | S | MRMS | RMR | MS | MSS | MS | | S | MRMS |
| LRPB Dual ^{db} | MRMS | MS | MSS | MSS | S | S | MSS | MSS | R | S | S | S |
| LRPB Havoc ^{db} | S | MSS | S | MSS | MRMS | S | S | MSS | S | | MSS | MS |
| LRPB Impala ^{db} | MR | MRMS | SVS | SVS | MSS | R | SVS | S | MSS | | MSS | MS |
| LRPB Kittyhawk ^{db} | MRMS (S) | MR | MR | MRMS | MRMS | MS | S | S | S | S | SVS | MRMS |
| LRPB Major ^{db} | MRMS | MRMS | MR# | MSS | MS | MS | MSS | MSS | MRMS (P) | S (P) | S | MRMS (P) |
| LRPB Matador ^{db} | MS | MS | MSS | S (P) | MRMS | MS | S | MRMS | MS (P) | S (P) | S | MRMS (P) |
| LRPB Nighthawk ^{db} | RMR | MR | MSS | MS | MS | SVS | MSS | MS | MS | | MSS | MS |
| LRPB Oryx ^{db} | MR | MS | RMR# | SVS | MSS | MR | MSS | MSS | S | S | MSS | MS |
| LRPB Raider ^{db} | RMR | MR | RMR | S | MSS | S | MSS | MS | S | | S | MSS |
| LRPB Scotch ^{db} | MSS | MRMS | MR# | S | MRMS | MR | MS | S | MS | S | S | MS |
| LRPB Scout ^{db} | MRMS | MS | MS | S | SVS | MRMS | S | MSS | R | | S | S |
| LRPB Trojan ^{db} | MRMS | S | MR# | S | MSS | S | MSS | MSS | MS | MS | MS | MS |
| Mace ^{db} | MRMS | SVS | S | SVS | MRMS | MSS | MS | MS | MRMS | S | S | MRMS |
| Manning ^{db} | MR | RMR | MSS | MRMS/S | MRMS | MS | MSS | S | S | MS (P) | VS | S |
| Naparoo ^{db} | MRMS | MRMS | MS | S | MRMS | R | SVS | S | | | S | |
| Razor CL Plus ^{db} | MRMS | MRMS | S | SVS | MSS | MSS | S | MS | MR | S | S | MS |
| Reilly ^{db} | MRMS | MS | MSS | S | S | MSS | MS | MSS | R | S | S | MSS |
| RGT Accroc ^{db} | MS | RMR | SVS | MS | MRMS | MSS | MS | MSS | S | MSS (P) | SVS | MRMS |
| RGT Calabro | MS | RMR | MSS | MRMS | MR | RMR | S | MS | S | | SVS | MS |
| RGT Cesario ^{db} | RMR | RMR | RMR | MRMS | MR | RMR | MRMS | MSS | MSS (P) | | VS | |
| RGT Waugh ^{db} | MS | RMR | S | MRMS# | MRMS | R | MSS | MSS | MS | | S | MRMS |
| RGT Zanzibar | VS | MR | SVS | MSS | MS | RMR | S | MS (P) | MSS | | S | MRMS |
| RockStar ^{db} | MRMS | S | S | S | MRMS | SVS | MRMS | MS | MSS | S | S | MSS |
| Saintly ^{db} | MS | MRMS | RMR | MRMS/S | MRMS | S | MS | RMR | MS | | VS (P) | MS |
| Scepter ^{db} | MRMS | MSS | MSS | S | MRMS | SVS | S | MSS | MRMS | S | MSS | MS |
| Severn ^{db} | MS | RMR | MRMS | MSS | MRMS | RMR | S | MRMS | MSS (P) | | S | MR |
| Sheriff CL Plus ^{db} | MS | SVS | SVS | S | MRMS | SVS | MRMS | MRMS | MS | S | S | MS |
| Soaker ^{db} | MR (P) | MS (P) | S (P) | S (P) | MS (P) | S (P) | | | | | | |
| SQP Revenue ^{db} | RMR | MR | VS | MSS | MRMS | R | S | S | S | S | S | MS |
| Sting ^{db} | MRMS | S | SVS | SVS | MRMS | SVS | MS | MS | MS | | MSS | S |
| Stockade ^{db} | MS | MR | MR | MS | MRMS | SVS | S | MSS | MRMS | | S | MRMS |
| Sunblade CL Plus ^{db} | MS | MRMS | MSS | S | MSS | S | MSS | MRMS | MSS | | S | MRMS |
| Sunflex ^{db} | MR | MRMS | RMR# | SVS | MS | S | S | MSS | MS | | MSS | MSS |
| Sunmaster ^{db} | MS | MRMS | RMR | S | MSS | MSS | MRMS | MS | MSS | | MSS | MR |
| Sunprime ^{db} | MS | MS | MR# | S | MSS | MSS | S | S | MS | | MSS | MSS |
| Tomahawk CL Plus ^{db} | MR | MSS | S | S (P) | MRMS | SVS | S | MS | MRMS (P) | S (P) | S | S (P) |
| Valiant ^{db} CL Plus | MR | S | S | MSS | MRMS | VS | S | S (P) | MSS (P) | MSS | MSS | MS (P) |
| Vixen ^{db} | MRMS | SVS | SVS | S | MRMS | SVS | MRMS | MS | MSS | S | S | MSS |
| Willaura ^{db} | MR | S | MRMS | S | MS | SVS | MSS | MRMS | MS | | S | MRMS |
| Yitpi | S | MS | S | S | SVS | MS | MSS | S | MR | | S | MS |
| Zen ^{db} | S | S | S | S | MRMS | MS | MRMS | S | S | | S | MRMS |

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Table 17: Wheat disease guide for South Australia (continued).

| Variety | Stem rust | Stripe rust (east coast resistance) | Leaf rust | Septoria tritici blotch | Yellow leaf spot | Powdery mildew | RLN resistance (<i>Pratylenchus neglectus</i>) | RLN resistance (<i>Pratylenchus thornei</i>) | CCN | Eyespot | Crown rot | Black point |
|----------------------------|-----------|-------------------------------------|-----------|-------------------------|------------------|----------------|--|--|----------|---------|-----------|-------------|
| DURUM | | | | | | | | | | | | |
| Caparoi ^{db} | MR | MS | RMR | MRMS/S | MR | S | MS | MR | MRMS (P) | | VS | MSS |
| DBA Bindaroi ^{db} | MR | MS | MR | MS | MS | MSS | MRMS | MR | MS | | SVS | MRMS |
| DBA Lillaroi ^{db} | RMR | MS | RMR | S | MRMS | MS | MRMS | RMR | S | | SVS | MS |
| DBA Mataroi ^{db} | MRMS | MS | MR | MSS | MRMS | S | MS | RMR | MRMS | | SVS | MS |
| DBA Spes | R | MS | RMR | S | MRMS | S | MRMS | RMR | MS | | VS | MS |
| DBA Vittaroi ^{db} | MR | MS | RMR | MSS | MRMS | MS | MS | MR | S | | SVS | MSS |
| DBA-Artemis ^{db} | MR | MRMS | RMR | MRMS/S | MRMS | SVS | MS | MR | MS | | SVS | MS |
| DBA-Aurora ^{db} | RMR | MRMS | RMR | MRMS/S | MRMS | MSS | MRMS | RMR | MSS | | SVS | MS |
| Jandaroi ^{db} | MRMS | MRMS | MR | MSS | MRMS | S | MS | MRMS | MS | | VS | MS |
| Patron ^{db} | RMR | MRMS | MR# | MRMS | MRMS | MSS | MRMS | MR | S | | SVS | MSS |
| Westcourt ^{db} | RMR | MR | RMR | S | MRMS | S | 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,

(P) = provisional rating, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes, () show outlier.

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Table 18: Wheat disease guide for Victoria.

| Variety | Stem rust | Leaf rust | Stripe rust (east coast resistance) | CCN | Crown rot | Eyespot | RLN resistance (<i>Pratylenchus neglectus</i>) | RLN resistance (<i>Pratylenchus thornei</i>) | <i>Septoria tritici</i> blotch | Yellow leaf spot | Black tip (Black point) | Powdery mildew |
|----------------------------------|-----------|-----------|-------------------------------------|--------|-----------|---------|--|--|--------------------------------|------------------|-------------------------|----------------|
| Anapurna | MSS | MS | RMR | MRMS | SVS | | MS | S (P) | MRMS | MRMS | MSS | RMR |
| Ascot ^{db} | MRMS | RMR | MSS | MR | S | S | S | S | S | MRMS | S | S |
| Ballista ^{db} | MR | S | MSS | MRMS | S | S | S | MRMS | SVS | MS | MS | SVS |
| Beckom ^{db} | MRMS | MSS | MRMS | R | S | | S | MSS | S | MSS | MRMS | MSS |
| BigRed ^{db} | S | MRMS | RMR | S | MSS | | MS | MS | MR | MR | MR | RMR |
| Boree ^{db} | MR | S | SVS | MSS | S | | S | MSS | SVS | MRMS | S | SVS |
| Brumby ^{db} | MR | SVS | MS | MRMS | S | S | MRMS | MS (P) | S | MRMS | MSS | MR/S |
| Calibre ^{db} | MR | S | S | MRMS | S | S | S | MSS | S | MRMS | MSS | MSS |
| Catapult ^{db} | MR | S | S | R | MSS | S | S | MS | MSS | MRMS | S | S |
| Chief CL Plus ^{db} | MR | MR | SVS | MS | MSS | MSS | MRMS | MSS | S | MRMS | MS | SVS |
| Condo ^{db} | MR | S | MRMS/MS | MR | S | | S | MS | S | MS | MS | MR |
| Coolah ^{db} | MR | RMR | MSS | S | MSS | | S | MS | MSS | MSS | S | S |
| Coota ^{db} | RMR | MR | S | MR | MSS | S | MR | MS | S | MSS | MS | S |
| Cosmick ^{db} | MS | SVS | MSS | S | S | | MSS | MSS | SVS | MRMS | MRMS | MSS |
| Cutlass ^{db} | R | RMR | MSS | MR | S | | MSS | MSS | MSS | MSS | MS | MSS |
| Denison ^{db} | MS | S | S | MS | MSS | S | S | S | MSS | MRMS | MS | S |
| Dozer ^{db} CL Plus | MS | MSS | S | MS (P) | S | SVS (P) | MRMS | S | S (P) | MS | MRMS (P) | S |
| DS Bennett ^{db} | MS | SVS | S | S | VS | | S | S | MSS | MRMS | MSS | R |
| DS Faraday ^{db} | RMR | RMR | MRMS | MS | MSS | | S | MSS | MSS | MSS | MSS | |
| DS Pascal ^{db} | MSS | MRMS# | MRMS | S | S | | S | S | MSS | MS | MS | RMR |
| DS Tull ^{db} | MR | MSS | MS | MSS | S | | MSS | MSS | SVS | S | MRMS | |
| EG Jet ^{db} | S | S | MRMS | MRMS | S | | S | S | MSS | MRMS | MS | SVS |
| EG Titanium | MS | MS | MR | R | MSS | S | MSS | MSS | MSS | MSS | MSS | S |
| EGA Gregory ^{db} | MR | MR | MS | S | S | | S | MSS | MSS | S | MSS | RMR |
| EGA Wedgetail ^{db} | MRMS | MSS | MS | S | S | | S | VS | MSS | MSS | MS | MRMS |
| Einstein | S | S | RMR | S | S (P) | | MRMS | S | MSS | MR | R | |
| Emu Rock ^{db} | MS | SVS | SVS | S | MSS | | MSS | S | S | MS | MSS | MSS |
| Genie ^{db} | MS (P) | S (P) | MRMS (P) | | | | | | S (P) | MRMS (P) | | SVS (P) |
| Hammer CL Plus ^{db} | MR | S | MS | MRMS | MSS | S | MSS | S | MSS | MRMS | MRMS | S |
| Hyperno ^{db} | RMR | RMR | MR | MS | SVS | | MS | RMR | MSS | MRMS | MS | RMR |
| IGW6755 | MRMS | MS | MSS | MSS | S | MSS (P) | MSS | MR | MSS | MRMS | MR | S |
| Illabo ^{db} | MRMS | S | MRMS | MRMS | S | S | MSS | MSS | MSS | MS | MRMS | R |
| Jillaroo ^{db} | MS | S | MSS | MS | S | S | S | MS (P) | S | MS | MS | SVS |
| Kingston ^{db} | S | S | MSS | R | S | S | S | MRMS | S | MSS | MSS | S |
| Leverage ^{db} | MR | RMR# | MRMS | MS (P) | S | S (P) | S | MS | S | MRMS | MSS (P) | S |
| Longford | RMR | RMR | RMR | MS | MSS | MSS (P) | S | S | MRMS/S | MRMS | MRMS | RMR |
| Longsword ^{db} | MR | MS | MRMS/MS | MRMS | MSS | S | MRMS | MRMS | MS | MRMS | MS | S |
| LRPB Anvil ^{db} CL Plus | MR | SVS | S | MS | MSS | S | MSS | S | VS | MSS | S | SVS |
| LRPB Avenger ^{db} | MS | S | S | MRMS | S | S | MSS | MRMS | S | MS | MRMS | SVS |
| LRPB Bale ^{db} | MRMS | MSS | MRMS | R | S | S | S | S | MSS | SVS | MS | MS |
| LRPB Beaufort ^{db} | SVS | MSS | RMR | MS | S | | MS | MSS | S | MRMS | MRMS | RMR |
| LRPB Dual ^{db} | MRMS | MSS | MS | R | S | S | MSS | MSS | MSS | S | S | S |
| LRPB Havoc ^{db} | S | S | MSS | S | MSS | | S | MSS | MSS | MRMS | MS | S |
| LRPB Hellfire ^{db} | MR | MSS | MR | MS | MSS | | MSS | MSS | S | MSS | S | S |

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Table 18: Wheat disease guide for Victoria (continued).

| Variety | Stem rust | Leaf rust | Stripe rust (east coast resistance) | CCN | Crown rot | Eyespot | RLN resistance (<i>Pratylenchus neglectus</i>) | RLN resistance (<i>Pratylenchus thornei</i>) | <i>Septoria tritici</i> blotch | Yellow leaf spot | Black tip (Black point) | Powdery mildew |
|--------------------------------|-----------|-----------|-------------------------------------|----------|-----------|---------|--|--|--------------------------------|------------------|-------------------------|----------------|
| LRPB Impala ^{db} | MR | SVS | MRMS | MSS | MSS | | SVS | S | SVS | MSS | MS | R |
| LRPB Kittyhawk ^{db} | MRMS (S) | MR | MR | S | SVS | S | S | S | MRMS | MRMS | MRMS | MS |
| LRPB Lancer ^{db} | R | RMR | RMR | S | MSS | | S | MS | MS | MS | MRMS | R |
| LRPB Major ^{db} | MRMS | MR# | MRMS | MRMS (P) | S | S (P) | MSS | MSS | MSS | MS | MRMS (P) | MS |
| LRPB Matador ^{db} | MS | MSS | MS | MS (P) | S | S (P) | S | MRMS | S (P) | MRMS | MRMS (P) | MS |
| LRPB Mustang ^{db} | MRMS | MSS | MR | MR | MSS | | S | MSS | S | MSS | MS | MSS |
| LRPB Nighthawk ^{db} | RMR | MSS | MR | MS | MSS | | MSS | MS | MS | MS | MS | SVS |
| LRPB Oryx ^{db} | MR | RMR# | MS | S | MSS | S | MSS | MSS | SVS | MSS | MS | MR |
| LRPB Parakeet ^{db} | MR | R | MR | MS | MSS | S | MRMS | S | SVS | MSS | MS | SVS |
| LRPB Raider ^{db} | RMR | RMR | MR | S | S | | MSS | MS | S | MSS | MSS | S |
| LRPB Scotch ^{db} | MSS | MR# | MRMS | MS | S | S | MS | S | S | MRMS | MS | MR |
| LRPB Scout ^{db} | MRMS | MS | MS | R | S | | S | MSS | S | SVS | S | MRMS |
| LRPB Stealth ^{db} | R | RMR# | RMR | S | MSS | | MSS | S | MSS | MS | MRMS | MS |
| LRPB Trojan ^{db} | MRMS | MR# | S | MS | MS | MS | MSS | MSS | S | MSS | MS | S |
| Mace ^{db} | MRMS | S | SVS | MRMS | S | S | MS | MS | SVS | MRMS | MRMS | MSS |
| Manning ^{db} | MR | MSS | RMR | S | VS | MS (P) | MSS | S | MRMS/S | MRMS | S | MS |
| Razor CL Plus ^{db} | MRMS | S | MRMS | MR | S | S | S | MS | SVS | MSS | MS | MSS |
| Reilly ^{db} | MRMS | MSS | MS | R | S | S | MS | MSS | S | S | MSS | MSS |
| RGT Accroc ^{db} | MS | SVS | RMR | S | SVS | MSS (P) | MS | MSS | MS | MRMS | MRMS | MSS |
| RGT Calabro | MS | MSS | RMR | S | SVS | | S | MS | MRMS | MR | MS | RMR |
| RGT Cesario ^{db} | RMR | RMR | RMR | MSS (P) | VS | | MRMS | MSS | MRMS | MR | | RMR |
| RGT Waugh ^{db} | MS | S | RMR | MS | S | | MSS | MSS | MRMS# | MRMS | MRMS | R |
| RGT Zanzibar | VS | SVS | MR | MSS | S | | S | MS (P) | MSS | MS | MRMS | RMR |
| RockStar ^{db} | MRMS | S | S | MSS | S | S | MRMS | MS | S | MRMS | MSS | SVS |
| Saintly ^{db} | MS | RMR | MRMS | S | VS (P) | | MS | RMR | MRMS/S | MRMS | MS | S |
| Scepter ^{db} | MRMS | MSS | MSS | MRMS | MSS | S | S | MSS | S | MRMS | MS | SVS |
| Severn ^{db} | MS | MRMS | RMR | MSS (P) | S | | S | MRMS | MSS | MRMS | MR | RMR |
| Sheriff CL Plus ^{db} | MS | SVS | SVS | MS | S | S | MRMS | MRMS | S | MRMS | MS | SVS |
| Soaker ^{db} | MR (P) | S (P) | MS (P) | | | | | | S (P) | MS (P) | | S (P) |
| SQP Revenue ^{db} | RMR | VS | MR | S | S | S | S | S | MSS | MRMS | MS | R |
| Sting ^{db} | MRMS | SVS | S | MS | MSS | | MS | MS | SVS | MRMS | S | SVS |
| Stockade ^{db} | MS | MR | MR | MRMS | S | | S | MSS | MS | MRMS | MRMS | SVS |
| Sunblade CL Plus ^{db} | MS | MSS | MRMS | MSS | S | | MSS | MRMS | S | MSS | MRMS | S |
| Suncentral ^{db} | MRMS | RMR | | S | MSS | | MRMS | MRMS | S | MSS | MRMS | SVS |
| Sundancer ^{db} | MR | RMR | MR | MS (P) | MSS | | MSS | MS | MSS | MS | MSS (P) | S |
| Sunflex ^{db} | MR | RMR# | MRMS | MS | MSS | | S | MSS | SVS | MS | MSS | S |
| Sunmaster ^{db} | MS | RMR | MRMS | MSS | MSS | | MRMS | MS | S | MSS | MR | MSS |
| Sunprime ^{db} | MS | MR# | MS | MS | MSS | | S | S | S | MSS | MSS | |
| Suntop ^{db} | MRMS | MR | MRMS | S | MSS | | S | MRMS | MSS | MSS | MSS | S |
| Tomahawk CL Plus ^{db} | MR | S | MSS | MRMS (P) | S | S (P) | S | MS | S (P) | MRMS | S (P) | SVS |
| Valiant ^{db} CL Plus | MR | S | S | MSS (P) | MSS | MSS | S | S (P) | MSS | MRMS | MS (P) | VS |
| Vixen ^{db} | MRMS | SVS | SVS | MSS | S | S | MRMS | MS | S | MRMS | MSS | SVS |
| Willaura ^{db} | MR | MRMS | S | MS | S | | MSS | MRMS | S | MS | MRMS | SVS |
| Yitpi | S | S | MS | MR | S | | MSS | S | S | SVS | MS | MS |

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Table 18: Wheat disease guide for Victoria (continued).

| Variety | Stem rust | Leaf rust | Stripe rust (east coast resistance) | CCN | Crown rot | Eyespot | RLN resistance (<i>Pratylenchus neglectus</i>) | RLN resistance (<i>Pratylenchus thornei</i>) | <i>Septoria tritici</i> blotch | Yellow leaf spot | Black tip (Black point) | Powdery mildew |
|----------------------------|-----------|-----------|-------------------------------------|----------|-----------|---------|--|--|--------------------------------|------------------|-------------------------|----------------|
| DURUM | | | | | | | | | | | | |
| Caparoi ^{db} | MR | RMR | MS | MRMS (P) | VS | | MS | MR | MRMS/S | MR | MSS | S |
| DBA Bindaroi ^{db} | MR | MR | MS | MS | SVS | | MRMS | MR | MS | MS | MRMS | MSS |
| DBA Lillaroi ^{db} | RMR | RMR | MS | S | SVS | | MRMS | RMR | S | MRMS | MS | MS |
| DBA Mataroi ^{db} | MRMS | MR | MS | MRMS | SVS | | MS | RMR | MSS | MRMS | MS | S |
| DBA Spes | R | RMR | MS | MS | VS | | MRMS | RMR | S | MRMS | MS | S |
| DBA Vittaroi ^{db} | MR | RMR | MS | S | SVS | | MS | MR | MSS | MRMS | MSS | MS |
| DBA-Artemis ^{db} | MR | RMR | MRMS | MS | SVS | | MS | MR | MRMS/S | MRMS | MS | SVS |
| DBA-Aurora ^{db} | RMR | RMR | MRMS | MSS | SVS | | MRMS | RMR | MRMS/S | MRMS | MS | MSS |
| Jandaroi ^{db} | MRMS | MR | MRMS | MS | VS | | MS | MRMS | MSS | MRMS | MS | MS |
| Patron ^{db} | RMR | MR# | MRMS | S | SVS | | MRMS | MR | MRMS | MRMS | MSS | MSS |
| Westcourt ^{db} | RMR | RMR | MR | MSS | VS | | MS | MR | S | MRMS | MSS | S |

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

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

(P) = provisional rating, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes, () show outlier.

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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 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 ¹ |
|------------------------|--------------------|-----------------------|-------------------------|---|
| Neo [®] CL | InterGrain | Under malt evaluation | 4.25 | Neo [®] CL is a mid-maturing, imidazolinone-tolerant spring barley, ideally suited to medium-high rainfall environments. Neo [®] CL provides an outstanding disease resistance profile with excellent resistance to cereal cyst nematode, powdery mildew and the spot form of net blotch, and useful resistance to the net form of net blotch and leaf scald. Neo [®] CL has a semi-prostrate early growth habit, medium plant height, good tolerance to lodging, good grain retention and tolerance to head loss, and very good levels of grain plumpness. Neo [®] CL has been accepted into Grains Australia's malting accreditation program with earliest potential final accreditation in March 2025. |
| Spinnaker [®] | Secobra Recherches | | TBC | Released under code name SCA21-Y003. |

* EPR amount is ex-GST, [®] denotes Plant Breeder's Rights apply. ¹ 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

Barley variety yield performance – Mallee South Australia and Victoria

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: Birchip main season barley.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|-----------------------------|---------------|---------------|---------------|--------------|---------------|
| Mean yield (t/ha) | 5.54 | 5.57 | 2.27 | 5.12 | 4.92 |
| Neo ^{db} CL* | | | | | 124 |
| Combat ^{db} | | | | 105 | 114 |
| Cyclops ^{db} | | 111 | 115 | 99 | 124 |
| Minotaur ^{db} | | 109 | 111 | 105 | 119 |
| Rosalind ^{db} | 114 | 108 | 97 | 102 | 110 |
| Spinnaker ^{db} | | | | 110 | 100 |
| Laperouse ^{db} | 100 | 105 | 117 | 96 | 121 |
| RGT Planet ^{db} | 116 | 105 | 90 | 112 | 95 |
| Yeti ^{db} | 98 | 104 | 116 | 97 | 120 |
| Maximus ^{db} CL* | 105 | 106 | 101 | 92 | 120 |
| Zena ^{db} CL* | | | | 110 | 94 |
| Spartacus CL ^{db*} | 105 | 104 | 91 | 91 | 110 |
| Titan AX ^{db*} | | | | 96 | 106 |
| Leabrook ^{db} | 88 | 100 | 124 | 98 | 105 |
| Beast ^{db} | 90 | 100 | 118 | 94 | 108 |
| Sowing date | 15 May | 14 May | 10 May | 9 May | 11 May |
| Rainfall J–M (mm) | 14 | 101 | 25 | 60 | 23 |
| Rainfall A–O (mm) | 197 | 205 | 172 | 384 | 118 |

Special thanks to 2023 trial cooperator, Linc Lehmann.
* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 2: Cooke Plains main season barley.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|----------------------------|---------------|---------------|---------------|--------------|--------------|
| Mean yield (t/ha) | | 6.03 | 4.01 | | |
| Combat ^{db} | | | 118 | | |
| Leabrook ^{db} | | 103 | 117 | | |
| Titan AX ^{db*} | | | 119 | | |
| Minotaur ^{db} | | 105 | 108 | | |
| RGT Planet ^{db} | | 109 | 100 | | |
| Compass ^{db} | | 100 | 113 | | |
| Beast ^{db} | | 99 | 111 | | |
| Cyclops ^{db} | | 99 | 111 | | |
| Commodus ^{db} CL* | | 98 | 110 | | |
| Yeti ^{db} | | 101 | 105 | | |
| Rosalind ^{db} | | 103 | 100 | | |
| Laperouse ^{db} | | 98 | 106 | | |
| Commander ^{db} | | 96 | 108 | | |
| Fathom ^{db} | | 96 | 103 | | |
| Buff ^{db} | | 93 | 100 | | |
| Sowing date | 17 May | 12 May | 10 Jun | 1 Jun | 8 Jun |
| Rainfall J–M (mm) | 14 | 34 | 49 | 24 | 56 |
| Rainfall A–O (mm) | 241 | 292 | 232 | 342 | 210 |

Special thanks to 2023 trial cooperator, Matthew Ballard, Wondalee Pastoral Co..
* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 3: Lameroo main season barley.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|--------------------------|---------------|--------------|---------------|---------------|--------------|
| Mean yield (t/ha) | 3.76 | 3.92 | 0.84 | 4.13 | 3.36 |
| Neo ^{db} CL* | | | | | 115 |
| Combat ^{db} | | | 120 | 111 | 117 |
| Spinnaker ^{db} | | | | 116 | 111 |
| Rosalind ^{db} | 110 | 113 | 109 | 107 | 109 |
| RGT Planet ^{db} | 105 | 107 | 92 | 117 | 109 |
| Zena ^{db} CL* | | | | 115 | 107 |
| Cyclops ^{db} | | 115 | 115 | 100 | 108 |
| Leabrook ^{db} | 110 | 109 | 122 | 99 | 101 |
| Minotaur ^{db} | | 110 | 105 | 105 | 107 |
| Beast ^{db} | 111 | 109 | 123 | 95 | 101 |
| Fathom ^{db} | 106 | 106 | 115 | 97 | 102 |
| Yeti ^{db} | 106 | 106 | 113 | 95 | 99 |
| La Trobe ^{db} | 102 | 106 | 110 | 95 | 104 |
| Titan AX ^{db*} | | | 120 | 95 | 100 |
| Compass ^{db} | 110 | 104 | 122 | 93 | 96 |
| Sowing date | 21 May | 6 May | 26 May | 26 May | 9 May |
| Rainfall J–M (mm) | 8 | 56 | 52 | 30 | 35 |
| Rainfall A–O (mm) | 197 | 241 | 149 | 302 | 194 |

Special thanks to 2023 trial cooperator, Lampata, RM & S Pocock.
* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 4: Manangatang main season barley.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|----------------------------|--------------|---------------|---------------|---------------|--------------|
| Mean yield (t/ha) | 2.52 | 2.70 | 3.01 | 5.95 | 2.79 |
| Combat ^{db} | | | | 116 | 120 |
| Titan AX ^{db*} | | | | 111 | 111 |
| Cyclops ^{db} | | 116 | 119 | 112 | 119 |
| Neo ^{db} CL* | | | | | 109 |
| Leabrook ^{db} | 120 | 113 | 118 | 106 | 106 |
| Beast ^{db} | 115 | 115 | 119 | 101 | 106 |
| Minotaur ^{db} | | 110 | 109 | 110 | 112 |
| Laperouse ^{db} | 103 | 111 | 109 | 107 | 112 |
| Compass ^{db} | 121 | 111 | 115 | 101 | 101 |
| Commodus ^{db} CL* | | 109 | 113 | 100 | 101 |
| Yeti ^{db} | 105 | 114 | 110 | 101 | 106 |
| Commander ^{db} | 108 | 96 | 102 | 108 | 106 |
| Fathom ^{db} | 105 | 109 | 112 | 98 | 104 |
| Rosalind ^{db} | 97 | 111 | 109 | 99 | 104 |
| Buff ^{db} | 101 | 101 | 107 | 101 | 105 |
| Sowing date | 8 May | 12 May | 25 May | 17 May | 8 May |
| Rainfall J–M (mm) | 18 | 48 | 48 | 41 | 25 |
| Rainfall A–O (mm) | 133 | 227 | 150 | 462 | 144 |

Special thanks to 2023 trial cooperator, Brad Plant.
* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

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Table 5: Murrayville main season barley.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|----------------------------|--------------|---------------|---------------|---------------|---------------|
| Mean yield (t/ha) | 2.81 | 2.41 | 1.94 | 4.81 | 4.39 |
| Neo ^{db} CL* | | | | | 123 |
| Combat ^{db} | | | | 115 | 120 |
| Leabrook ^{db} | 125 | 119 | 115 | 107 | 94 |
| Cyclops ^{db} | | 109 | 108 | 105 | 121 |
| Minotaur ^{db} | | 106 | 107 | 108 | 118 |
| Titan AX ^{db*} | | | | 107 | 98 |
| Spinnaker ^{db} | | | | 111 | 109 |
| Beast ^{db} | 120 | 120 | 112 | 101 | 95 |
| Rosalind ^{db} | 102 | 114 | 106 | 102 | 109 |
| Compass ^{db} | 127 | 118 | 112 | 102 | 85 |
| RGT Planet ^{db} | 99 | 102 | 103 | 110 | 106 |
| Yeti ^{db} | 107 | 112 | 107 | 99 | 105 |
| Commodus ^{db} CL* | | 113 | 109 | 100 | 87 |
| Laperouse ^{db} | 97 | 103 | 103 | 99 | 111 |
| Zena ^{db} CL* | | | | 106 | 103 |
| Sowing date | 7 May | 11 May | 11 May | 11 May | 11 May |
| Rainfall J–M (mm) | 33 | 50 | 38 | 49 | 22 |
| Rainfall A–O (mm) | 156 | 240 | 149 | 369 | 229 |

Special thanks to 2023 trial cooperator, Giles Oster.

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

Table 6: Palmer main season barley.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|----------------------------|----------|--------------|--------------|--------------|---------------|
| Mean yield (t/ha) | | 2.13 | 2.61 | 3.94 | 3.79 |
| Combat ^{db} | | | 124 | 108 | 110 |
| Leabrook ^{db} | | 130 | 128 | 107 | 108 |
| Beast ^{db} | | 134 | 126 | 101 | 108 |
| Compass ^{db} | | 130 | 127 | 103 | 106 |
| Titan AX ^{db*} | | | 130 | 102 | 106 |
| Neo ^{db} CL* | | | | | 109 |
| Commodus ^{db} CL* | | 125 | 124 | 100 | 105 |
| Cyclops ^{db} | No trial | 123 | 119 | 97 | 108 |
| Yeti ^{db} | | 121 | 115 | 97 | 107 |
| Fathom ^{db} | | 122 | 115 | 98 | 104 |
| Rosalind ^{db} | | 118 | 104 | 104 | 106 |
| Minotaur ^{db} | | 108 | 107 | 103 | 105 |
| Laperouse ^{db} | | 113 | 114 | 93 | 104 |
| Spinnaker ^{db} | | | | 112 | 103 |
| Maximus ^{db} CL* | | 119 | 107 | 88 | 105 |
| Sowing date | | 4 May | 8 Jun | 9 May | 16 May |
| Rainfall J–M (mm) | | 32 | 51 | 55 | 42 |
| Rainfall A–O (mm) | | 222 | 285 | 316 | 175 |

Special thanks to 2023 trial cooperator, Steen Paech, Hillydale.

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

Table 7: Paruna main season barley.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|----------------------------|---------------|--------------|---------------|--------------|---------------|
| Mean yield (t/ha) | 1.64 | 2.75 | 0.93 | 4.12 | 2.48 |
| Combat ^{db} | | | 136 | 126 | 112 |
| Neo ^{db} CL* | | | | | 111 |
| Leabrook ^{db} | 139 | 114 | 107 | 106 | 120 |
| Beast ^{db} | 141 | 113 | 110 | 102 | 120 |
| Cyclops ^{db} | | 109 | 119 | 118 | 111 |
| Titan AX ^{db*} | | | 107 | 111 | 116 |
| Compass ^{db} | 143 | 110 | 102 | 99 | 119 |
| Rosalind ^{db} | 115 | 114 | 117 | 104 | 107 |
| Commodus ^{db} CL* | | 106 | 101 | 98 | 116 |
| Yeti ^{db} | 127 | 106 | 96 | 101 | 116 |
| Fathom ^{db} | 121 | 109 | 116 | 101 | 109 |
| Minotaur ^{db} | | 106 | 105 | 114 | 106 |
| Spinnaker ^{db} | | | | 109 | 99 |
| Laperouse ^{db} | 107 | 98 | 96 | 106 | 110 |
| La Trobe ^{db} | 104 | 105 | 125 | 99 | 101 |
| Sowing date | 13 May | 5 May | 26 May | 4 May | 22 May |
| Rainfall J–M (mm) | 16 | 56 | 20 | 47 | 26 |
| Rainfall A–O (mm) | 126 | 214 | 129 | 363 | 153 |

Special thanks to 2023 trial cooperator, Bernie Lehmann.

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

Table 8: Rainbow main season barley.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|--------------------------|---------------|---------------|---------------|---------------|---------------|
| Mean yield (t/ha) | 3.63 | 3.21 | 3.29 | 4.70 | 3.88 |
| Neo ^{db} CL* | | | | | 110 |
| Combat ^{db} | | | | 113 | 113 |
| Cyclops ^{db} | | 108 | 109 | 107 | 109 |
| Spinnaker ^{db} | | | | 115 | 103 |
| Minotaur ^{db} | | 110 | 107 | 111 | 106 |
| Rosalind ^{db} | 114 | 100 | 100 | 110 | 104 |
| RGT Planet ^{db} | 101 | 110 | 100 | 116 | 100 |
| Leabrook ^{db} | 111 | 100 | 111 | 94 | 108 |
| Titan AX ^{db*} | | | | 92 | 109 |
| Zena ^{db} CL* | | | | 113 | 99 |
| Beast ^{db} | 115 | 94 | 107 | 93 | 107 |
| Yeti ^{db} | 108 | 96 | 104 | 98 | 104 |
| Laperouse ^{db} | 101 | 100 | 105 | 98 | 104 |
| Fathom ^{db} | 112 | 95 | 102 | 95 | 104 |
| Compass ^{db} | 110 | 93 | 108 | 87 | 106 |
| Sowing date | 16 May | 22 May | 18 May | 19 May | 16 May |
| Rainfall J–M (mm) | 22 | 88 | 51 | 76 | 33 |
| Rainfall A–O (mm) | 199 | 253 | 205 | 421 | 198 |

Special thanks to 2023 trial cooperator, Brett Fisher.

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

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Table 9: Ultima main season barley.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------|-------------------|--------|--------|--------|--------|
| Mean yield (t/ha) | | 2.70 | 1.30 | 6.92 | 2.22 |
| Neo ^{db} CL* | Compromised trial | | | | 112 |
| Combat ^{db} | | | | 113 | 126 |
| Cyclops ^{db} | | 118 | 105 | 107 | 124 |
| Minotaur ^{db} | | 110 | 104 | 109 | 114 |
| Rosalind ^{db} | | 114 | 113 | 106 | 102 |
| Spinnaker ^{db} | | | | 112 | 99 |
| Leabrook ^{db} | | 115 | 110 | 99 | 114 |
| Yeti ^{db} | | 117 | 112 | 99 | 109 |
| Beast ^{db} | | 119 | 113 | 96 | 112 |
| Titan AX ^{db*} | | | | 98 | 121 |
| Laperouse ^{db} | | 112 | 102 | 99 | 116 |
| RGT Planet ^{db} | | 94 | 102 | 112 | 92 |
| Maximus ^{db} CL* | | 118 | 110 | 96 | 106 |
| Fathom ^{db} | | 112 | 107 | 96 | 106 |
| Zena ^{db} CL* | | | | 109 | 89 |
| Sowing date | 8 May | 11 May | 11 May | 11 May | 11 May |
| Rainfall J–M (mm) | 18 | 47 | 29 | 63 | 34 |
| Rainfall A–O (mm) | 161 | 233 | 199 | 453 | 209 |

Special thanks to 2023 trial cooperator, Warrick Grey.

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

Table 10: Walpeup main season barley.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------|-------|--------|--------|--------|--------|
| Mean yield (t/ha) | 2.16 | 4.78 | 3.22 | 5.68 | 4.39 |
| Neo ^{db} CL* | | | | | 123 |
| Combat ^{db} | | | | 116 | 117 |
| Cyclops ^{db} | | 109 | 115 | 107 | 121 |
| Minotaur ^{db} | | 108 | 107 | 109 | 117 |
| Rosalind ^{db} | 118 | 104 | 108 | 105 | 114 |
| Spinnaker ^{db} | | | | 113 | 107 |
| Yeti ^{db} | 121 | 102 | 108 | 98 | 114 |
| Beast ^{db} | 131 | 100 | 115 | 98 | 105 |
| Leabrook ^{db} | 125 | 100 | 115 | 102 | 102 |
| Laperouse ^{db} | 105 | 104 | 107 | 99 | 113 |
| Titan AX ^{db*} | | | | 102 | 101 |
| Maximus ^{db} CL* | 117 | 102 | 106 | 93 | 116 |
| RGT Planet ^{db} | 94 | 103 | 98 | 112 | 102 |
| Fathom ^{db} | 119 | 100 | 110 | 97 | 102 |
| La Trobe ^{db} | 113 | 101 | 107 | 94 | 106 |
| Sowing date | 8 May | 11 May | 25 May | 13 May | 11 May |
| Rainfall J–M (mm) | 9 | 85 | 54 | 86 | 55 |
| Rainfall A–O (mm) | 118 | 247 | 189 | 444 | 228 |

Special thanks to 2023 trial cooperator, Mick Pole.

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

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Barley variety quality – Mallee South Australia and Victoria

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 2022 and 2023 NVT averaged for trials in the Mallee South Australia and Victoria 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 nine NVT sites in Mallee SA–Victoria in 2022.

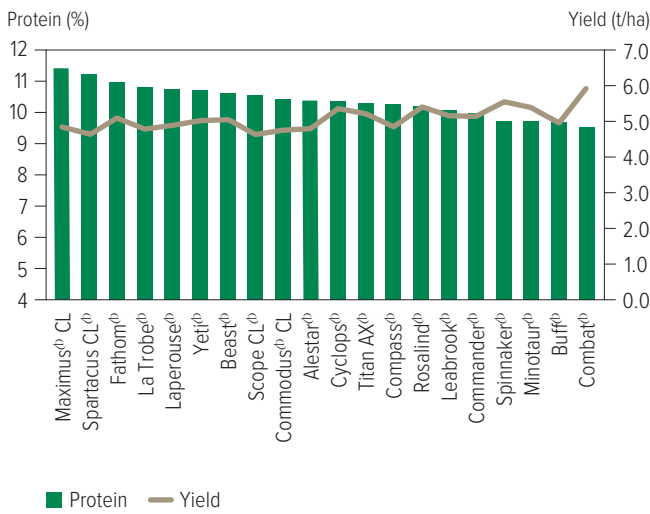
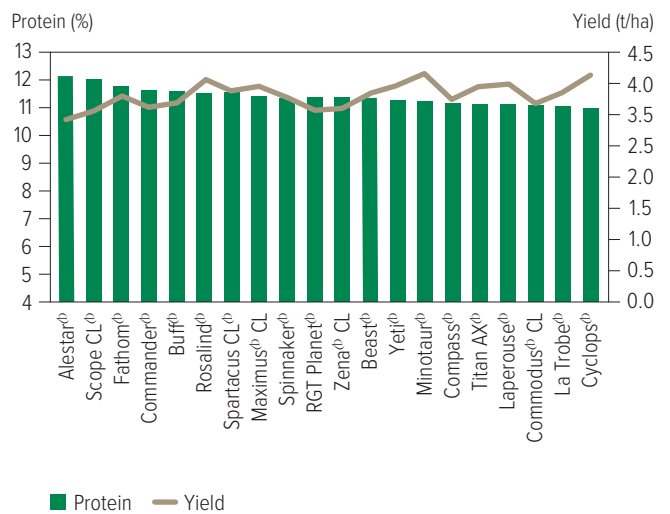


Figure 2: Protein (%) and yield (t/ha) comparisons for main season barley varieties from nine NVT sites in Mallee SA–Victoria in 2023.



Test weight comparisons

Figure 3: Test weight (kg/hL) comparisons for main season barley varieties from nine NVT sites in Mallee SA–Victoria in 2022.

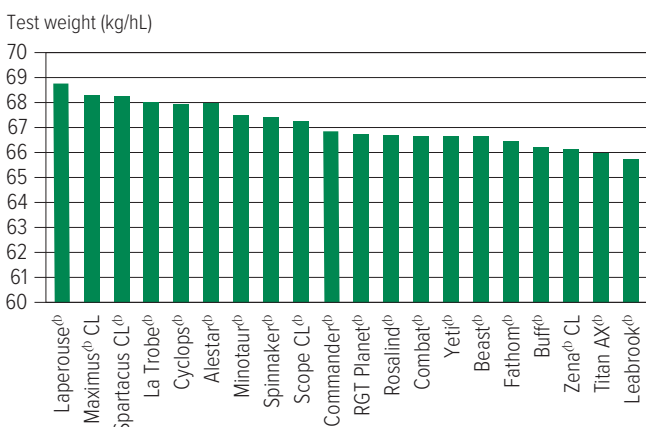
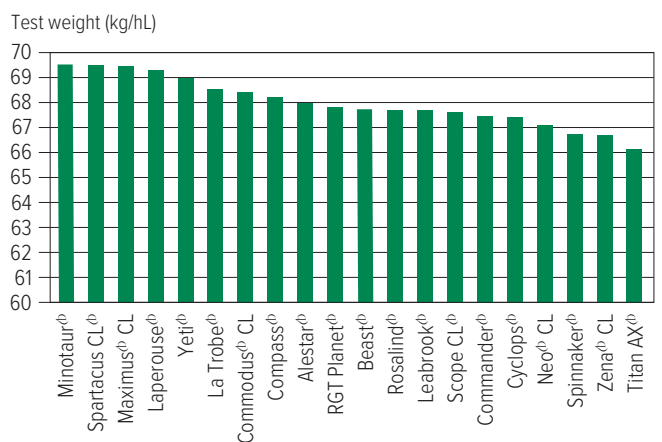


Figure 4: Test weight (kg/hL) comparisons for main season barley varieties from nine NVT sites in Mallee SA–Victoria in 2023.



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Screenings comparisons

Figure 5: Screenings (<2.2mm) comparisons for main season barley varieties from nine NVT sites in Mallee SA–Victoria in 2022.

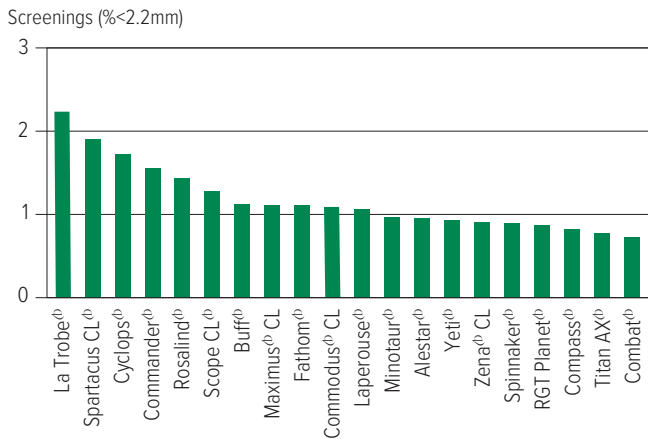
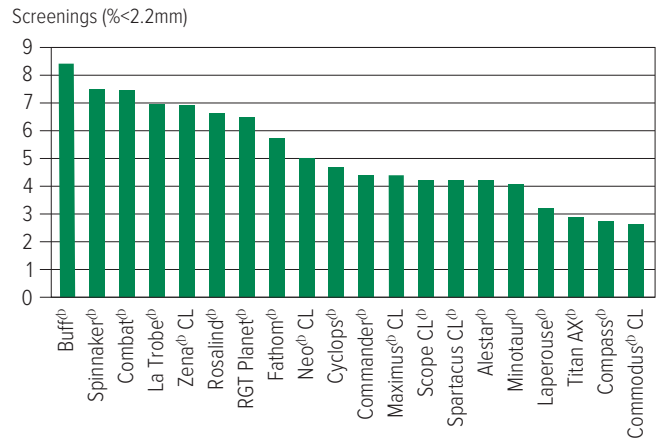


Figure 6: Screenings (<2.2mm) comparisons for main season barley varieties from nine NVT sites in Mallee SA–Victoria in 2023.



Retention comparisons

Figure 7: Retention (>2.5mm) comparisons for main season barley varieties from nine NVT sites in Mallee SA–Victoria in 2022.

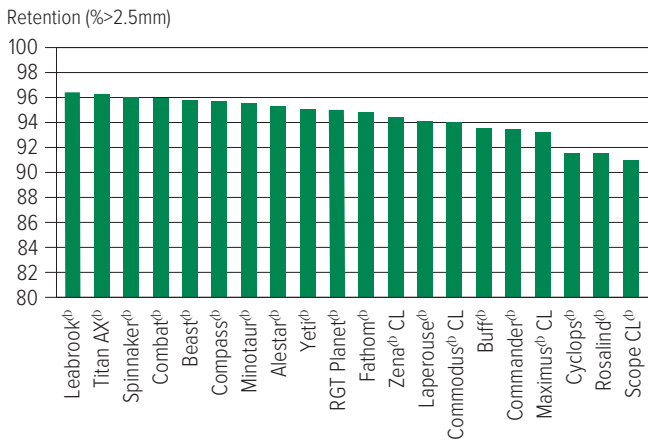
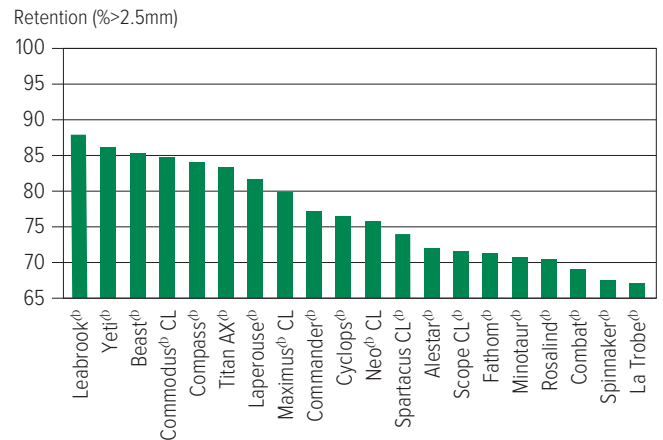


Figure 8: Retention (>2.5mm) comparisons for main season barley varieties from nine NVT sites in Mallee SA–Victoria in 2023.



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Barley variety disease ratings – South Australia and Victoria

The following tables contain varietal ratings for the predominant diseases of barley in South Australia and Victoria. These ratings are updated annually by crop pathologists and were released in March 2024.

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

Table 11: Barley disease guide for South Australia.

| Variety | Leaf rust | Net form net blotch | Spot form net blotch | Leaf scald | Ramularia | RLN resistance (<i>Pratylenchus neglectus</i>) | RLN resistance (<i>Pratylenchus thornei</i>) | CCN | Crown rot | Black point | Powdery mildew |
|----------------------------|-----------|---------------------|----------------------|------------|-----------|---|---|--------------------|-----------|-------------|----------------|
| Alestar ^{db} | MSS | MRMS-S | S | SVS | SVS | MR | MR | R ^a (P) | S | MRMS | MR |
| Banks ^{db} | MRMS | MR | S | MS-SVS | VS | MS | MR | S | MSS | MS | MS |
| Bass ^{db} | S | MS-SVS | MSS | MSS | VS | MS | MRMS | S | MSS | MRMS | S |
| Beast ^{db} | MS | MRMS-S | MS | SVS | SVS | MRMS | MRMS | MR | S | MSS | S |
| Bottler ^{db} | MSS | R-MS | MSS | SVS | SVS | MS | RMR | | SVS | MRMS | RMR |
| Buff ^{db} | SVS | MR-MS | MSS | MS-VS | SVS | MRMS | MS | | S | MS | S |
| Combat ^{db} | SVS | MRMS-S | RMR | MS-S | SVS | MRMS | MS | MR | S | MSS | MS |
| Commander ^{db} | MSS | S-VS | MSS | SVS | SVS | MRMS | MRMS | R | S | MSS | MSS |
| Commodus ^{db} CL | S | MRMS-MSS | MSS | MSS-SVS | SVS | MRMS | MRMS | R | S | MS | MSS |
| Compass ^{db} | S | MRMS-S | MS | MSS-SVS | SVS | MRMS | MR | R | MSS | MSS | S |
| Cyclops ^{db} | S | MR-MS | MSS | S | SVS | MRMS | MRMS | S | MSS | MSS | SVS |
| Fairview ^{db} | S | SVS | S | SVS | SVS | MR | MR | | MSS | MS | R |
| Fandaga ^{db} | MSS | MRMS# | S | SVS | VS | MR | MR | R | MSS | MRMS | R |
| Fathom ^{db} | MSS | MSS-SVS | RMR | R-S | SVS | MRMS | MR | R | SVS | MSS | MRMS |
| Flinders ^{db} | S | MSS | S | MSS-SVS | SVS | MRMS | MR | S | MSS | MRMS | RMR |
| Keel | S | MS-SVS | MR | MS-SVS | SVS | MS | MRMS | R | S | MSS | S |
| Kiwi | MSS | MRMS | MSS | SVS | VS | MRMS | RMR | S | MSS | MS | RMR |
| La Trobe ^{db} | S | MS-S | S | R-SVS | SVS | MRMS | MRMS | R | S | MSS | MSS |
| Laperouse ^{db} | S | MRMS | MRMS | SVS | VS | MRMS | MR | S | S | MSS | MSS |
| Leabrook ^{db} | S | MR-MSS | MS | MRMS-SVS | VS | MRMS | RMR | RMR | S | MS | S |
| Litmus ^{db} | S | S-VS | S | VS | VS | MS | MRMS | MS | S | MS | MS |
| Maximus ^{db} CL | S | MR-MS | MS | R-SVS | VS | MRMS | MRMS | R | S | MSS | S |
| Minotaur ^{db} | SVS | MR-MS | S | VS | SVS | MRMS | MRMS | R | MSS | MRMS | S |
| Neo ^{db} CL | MSS (P) | MS (P) | MR (P) | S (P) | SVS (P) | RMR (P) | MR (P) | R | | MRMS (P) | RMR (P) |
| RGT Planet ^{db} | S | MRMS-SVS | SVS | R-SVS | SVS | MRMS | MR | R (P) | MSS | MRMS | RMR |
| Rosalind ^{db} | MSS | MRMS | S | MR-S | VS | MRMS | MRMS | R | S | MS | MSS |
| SakuraStar | MSS | S | MS | MS-SVS | SVS | MR | MR | R | S | MS | MSS |
| Scope CL ^{db} | S | R-MR | MSS | MRMS-SVS | SVS | MRMS | MRMS | S | S | MS | MRMS |
| Spartacus CL ^{db} | MSS | MS-VS | S | R-SVS | VS | MRMS | MRMS | R | S | MSS | MSS |
| Spinnaker ^{db} | S | SVS | SVS | S | VS | MR | MS | S | S | MRMS | RMR |
| Titan AX ^{db} | SVS | MRMS-S | MS | VS | VS | MR | MR | MR (P) | S | MSS | MSS |
| Topstart | S | MRMS-SVS | S | S | SVS | RMR | RMR | S | MSS | MRMS | RMR |
| Urambie | S | R-MR | S | R-S | VS | MRMS | MR | | MSS | MRMS | MS |
| Westminster ^{db} | MS | MRMS | S | R-S | SVS | MRMS | MS | | MSS | MRMS | RMR |
| Yeti ^{db} | SVS | MR-MS | MS | VS | VS | MR | MR | RMR | S | MSS | S |
| Zena ^{db} CL | S | MR-S | S | R-S | VS | 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, # warning, may be more susceptible to alternate pathotypes,

^a line contains a few susceptible off types.

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Table 12: Barley disease guide for Victoria.

| Variety | Leaf scald | Spot form net blotch | Net form net blotch | Leaf rust | CCN | RLN resistance (<i>Pratylenchus neglectus</i>) | RLN resistance (<i>Pratylenchus thornei</i>) | Ramularia | Powdery mildew |
|----------------------------|------------|----------------------|---------------------|-----------|--------------------|---|---|-----------|----------------|
| Alestar ^{db} | SVS | S | S | MS | R [^] (P) | MR | MR | SVS | MR |
| Banks ^{db} | SVS | S | MR | S | S | MS | MR | VS | MS |
| Bass ^{db} | S | MSS | S | SVS | S | MS | MRMS | VS | S |
| Beast ^{db} | SVS | MS | MRMS | S | MR | MRMS | MRMS | SVS | S |
| Bottler ^{db} | SVS | MSS | MR | MRMS | | MS | RMR | SVS | RMR |
| Buff ^{db} | SVS | MSS | MS | SVS | | MRMS | MS | SVS | S |
| Combat ^{db} | S | RMR | MRMS# | S | MR | MRMS | MS | SVS | MS |
| Commander ^{db} | SVS | MSS | S | SVS | R | MRMS | MRMS | SVS | MSS |
| Commodus ^{db} CL | SVS | MSS | MSS | S | R | MRMS | MRMS | SVS | MSS |
| Compass ^{db} | SVS | MS | MS | SVS | R | MRMS | MR | SVS | S |
| Cyclops ^{db} | S | MS | MRMS | SVS | S | MRMS | MRMS | SVS | SVS |
| Fairview ^{db} | SVS | S | SVS | S | | MR | MR | SVS | R |
| Fandaga ^{db} | SVS | S | MRMS | MSS | R | MR | MR | VS | R |
| Fathom ^{db} | S | RMR | MSS | MS | R | MRMS | MR | SVS | MRMS |
| Flinders ^{db} | SVS | S | MS | S | S | MRMS | MR | SVS | RMR |
| Keel | SVS | MR | MS# | SVS | R | MS | MRMS | SVS | S |
| Kiwi | SVS | MSS | MRMS# | MSS | S | MRMS | RMR | VS | RMR |
| La Trobe ^{db} | SVS | S | MS | S | R | MRMS | MRMS | SVS | MSS |
| Laperouse ^{db} | VS | MRMS | MRMS# | SVS | S | MRMS | MR | VS | MSS |
| Leabrook ^{db} | SVS | MS | MS# | SVS | RMR | MRMS | RMR | VS | S |
| Litmus ^{db} | VS | S | S | SVS | MS | MS | MRMS | VS | MS |
| Maximus ^{db} CL | SVS | MS | MRMS | S | R | MRMS | MRMS | VS | S |
| Minotaur ^{db} | VS | S | MRMS | VS | R | MRMS | MRMS | SVS | S |
| Neo ^{db} CL | S (P) | MR (P) | MS (P) | S (P) | R | RMR (P) | MR (P) | SVS (P) | RMR (P) |
| RGT Planet ^{db} | SVS | SVS | SVS | MRMS | R (P) | MRMS | MR | SVS | RMR |
| Rosalind ^{db} | S | S | MR | MRMS | R | MRMS | MRMS | VS | MSS |
| SakuraStar | SVS | MS | MSS | S | R | MR | MR | SVS | MSS |
| Scope CL ^{db} | SVS | MSS | MR# | S | S | MRMS | MRMS | SVS | MRMS |
| Spartacus CL ^{db} | SVS | S | S | S | R | MRMS | MRMS | VS | MSS |
| Spinnaker ^{db} | S | SVS | S | S | S | MR | MS | VS | RMR |
| Titan AX ^{db} | VS | MS | MS | SVS | MR (P) | MR | MR | VS | MSS |
| Topstart | SVS | S | MS | MRMS | S | RMR | RMR | SVS | RMR |
| Urambie | MS | S | MRMS | S | | MRMS | MR | VS | MS |
| Westminster ^{db} | SVS | S | MRMS | MRMS | | MRMS | MS | SVS | RMR |
| Yeti ^{db} | VS | MS | MR# | SVS | RMR | MR | MR | VS | S |
| Zena ^{db} CL | S | S | SVS | MS | R | MRMS | MR | VS | 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.

warning, may be more susceptible to alternate pathotypes, ^ line contains a few susceptible off types.

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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 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 ¹ |
|-----------------------|------------------|-------------------------|---|
| Archer [®] | InterGrain | 3.65 | Archer [®] is a mid-maturing, single-gene imidazolinone-tolerant oat hay variety. Sentry [®] is registered for pre-planting incorporation by seeding (IBS) for hay, forage, seed and grain (domestic feed market only) production for Archer [®] . Excess grain, seed and screenings produced from single-gene imidazolinone oat hay varieties Kingbale [®] and Archer [®] can be used for the domestic oat grain feed markets and/or consumed on-farm. Grain of these varieties cannot be delivered into bulk handling systems. |
| Kingbale [®] | InterGrain | 3.65 | Kingbale [®] is a mid-slow maturing, single-gene imidazolinone-tolerant oat hay variety. Sentry [®] is registered for pre-planting incorporation by seeding (IBS) for hay, forage, seed and grain (domestic feed market only) production for Kingbale [®] . Excess grain, seed and screenings produced from Kingbale [®] and Archer [®] can be used for the domestic oat grain feed markets and/or consumed on-farm. Grain of these varieties cannot be delivered into bulk handling systems. |
| Kultarr [®] | InterGrain | 3.00 | Kultarr [®] is a quick-mid maturing oat hay suitable for low-medium production areas. Kultarr [®] has a tall plant height and a suitable hay quality profile for export hay. |
| Wallaby [®] | InterGrain | 3.00 | Wallaby [®] is a mid-maturing oat hay well suited to medium and high production areas. Wallaby [®] has excellent hay yields. |

* EPR amount is ex-GST, [®] denotes Plant Breeder's Rights apply. ¹ 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

Oat variety yield performance – Mallee South Australia and Victoria

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: Waikerie oat. | | | | | |
|--------------------------|---------------|--------------|-------------------|--------------|---------------|
| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
| Mean yield (t/ha) | 0.63 | 2.71 | | 3.68 | 1.55 |
| Koala [†] | 84 | 107 | Compromised trial | 132 | 107 |
| 13008-18 | | | | 106 | 115 |
| Bannister [†] | 98 | 109 | | 115 | 109 |
| Williams [†] | 89 | 107 | | 106 | 110 |
| Archer ^{†*} | | | | | 118 |
| Yallara [†] | 110 | 104 | | 97 | 89 |
| Bilby [†] | 109 | 101 | | 91 | 104 |
| Kultarr [†] | | | | | 92 |
| Kowari [†] | 110 | 97 | | 86 | 98 |
| Wallaby [†] | | | | | 92 |
| Sowing date | 14 May | 6 May | 28 May | 6 May | 17 May |
| Rainfall J–M (mm) | 10 | 93 | 19 | 28 | 19 |
| Rainfall A–O (mm) | 91 | 192 | 101 | 313 | 82 |

Special thanks to 2023 trial cooperator, B Kroehn, Borung Poll Merino Stud.

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

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Oat variety disease ratings – South Australia and Victoria

The following tables contain varietal ratings for the predominant diseases of oat in South Australia and Victoria. These ratings are updated annually by crop pathologists and were released in March 2024.

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

Table 2: 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 ^{db} | MSS | R/S (P) | MSS (P) | | VS (P) | I (P) | MRMS (P) | MSS (P) | SVS (P) |
| Bannister ^{db} | S | MSS | MS | MR | MRMS | MT | MSS | S | MSS-SVS |
| Bilby ^{db} | S | MSS | S | S | S | MI | S | SVS | MS |
| Brusher ^{db} | SVS | MR | S | MR | S | MT | MSS | SVS | MS |
| Carrolup | S | S | SVS | VS | S | I | MSS | MSS | SVS |
| Durack ^{db} | S | S | S | MRMS | S | MT | S | S | SVS |
| Echidna | S | SVS | MSS | MS | MRMS | MT | SVS | S | MSS |
| Goldie ^{db} | SVS | SVS | MS | MR | S | I | MS | S | SVS |
| Kingbale ^{db} | MSS | S | MS | R | MR | MT | MSS | MSS (P) | S (P) |
| Koala ^{db} | MS | MSS | MSS | R | MS | MT | MSS | S | S |
| Kojonup ^{db} | S | S | MS | VS | MS | MT | MSS | SVS | S |
| Kowari ^{db} | S | SVS | S | S | S | I | S | S | S |
| Kultarr ^{db} | SVS (P) | MR (P) | MSS (P) | | S (P) | MI (P) | MS (P) | MS (P) | S (P) |
| Mitika ^{db} | S | S | SVS | VS | S | MT | SVS | S | SVS |
| Mulgara ^{db} | S | MR | MSS | R | MR | MT | S/MS | MSS | SVS |
| Tungoo ^{db} | S | MR | MSS | MR | R | MT | MRMS# | S | MRMS |
| Wallaby ^{db} | SVS (P) | MR (P) | MS (P) | | S (P) | MI (P) | MS (P) | MSS (P) | SVS (P) |
| Wandering | SVS | SVS | MSS | VS | S | MT | MSS | S | S |
| Williams ^{db} | S | MRMS | MSS | S | S | MI | MSS | MSS | MS |
| Wintaroo | S | S | MS | R | MR | MT | MS# | S | S |
| Yallara ^{db} | S | S | S | 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.

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Table 3: Oat disease guide for Victoria.

| Variety | Leaf rust (crown rust) | Stem rust | Bacterial blight | Barley yellow dwarf virus (BYDV) | CCN | Red leather leaf | Septoria blotch |
|-------------------------|------------------------|-----------|------------------|----------------------------------|------|------------------|-----------------|
| Archer ^{db} | R/S (P) | MSS | MSS (P) | MSS (P) | | SVS (P) | MRMS (P) |
| Bannister ^{db} | MSS | S | S | MS | MR | MSS-SVS | MSS |
| Bilby ^{db} | MSS | S | SVS | S | S | MS | S |
| Brusher ^{db} | MR | SVS | SVS | S | MR | MS | MSS |
| Carrolup | S | S | MSS | SVS | VS | SVS | MSS |
| Durack ^{db} | S | S | S | S | MRMS | SVS | S |
| Echidna | SVS | S | S | MSS | MS | MSS | SVS |
| Goldie ^{db} | SVS | SVS | S | MS | MR | SVS | MS |
| Kingbale ^{db} | S | MSS | MSS (P) | MS | R | S (P) | MSS |
| Koala ^{db} | MSS | MS | S | MSS | R | S | MSS |
| Kojonup ^{db} | S | S | SVS | MS | VS | S | MSS |
| Kowari ^{db} | SVS | S | S | S | S | S | S |
| Kultarr ^{db} | MR (P) | SVS (P) | MS (P) | MSS (P) | | S (P) | MS (P) |
| Mitika ^{db} | S | S | S | SVS | VS | SVS | SVS |
| Mulgara ^{db} | MR | S | MSS | MSS | R | SVS | S/MS |
| Tungoo ^{db} | MR | S | S | MSS | MR | MRMS | MRMS# |
| Wallaby ^{db} | MR (P) | SVS (P) | MSS (P) | MS (P) | | SVS (P) | MS (P) |
| Wandering | SVS | SVS | S | MSS | VS | S | MSS |
| Williams ^{db} | MRMS | S | MSS | MSS | S | MS | MSS |
| Wintaroo | S | S | S | MS | R | S | MS# |
| Yallara ^{db} | S | S | S | S | R | SVS | 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.

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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 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 ¹ |
|---------------------------------|--------------------------|-------------------------|---|
| DG Avon TT [Ⓛ] | Nutrien Ag Solutions Ltd | 5.50 | Early, determinant, short TT open-pollinated variety suited to low-medium rainfall zones. |
| Hyola [®] Continuum CL | Advanta Seeds | N/A | An early-mid maturity Clearfield [®] hybrid, Continuum CL provides wide environmental adaptability with excellent grain oil potential. It exhibits strong yields in target environments and demonstrates excellent adaptability to growing regions with a range of 1.5 to 5.5t/ha. Continuum CL showcases an exceptionally high level of early plant vigour, high lodging resistance and an outstanding blackleg rating of 'R' due to its distinctive tri-group resistance, ADF. |
| Hyola [®] Defender CT | Advanta Seeds | N/A | A mid-season maturity CT hybrid, Defender CT delivers remarkable grain yield, robust plant vigour and a very high grain oil content. Defender CT performance is closely aligned with the renowned Hyola [®] Blazer TT variety. Defender CT offers uniform flowering, manageable height for direct harvesting and an exceptional blackleg rating of 'R-MR' due to its distinctive tri-group resistance, ADF. |
| InVigor [®] LR 4540P | BASF Australia Ltd | N/A | New LibertyLink [®] hybrid with tolerance to both Liberty [®] and TruFlex [®] . Combines two herbicide tolerances with the flexibility of PodGuard [®] for shatter tolerance. Early-mid maturing variety suited to low and medium-rainfall zones. Marketed by BASF. |
| Nuseed [®] Ceres IMI | Nuseed | N/A | Nuseed [®] Ceres IMI is Nuseed [®] 's first release in this popular herbicide technology. It has demonstrated competitive yield and excellent oil during trials, and exhibits strong early vigour and good early biomass. Suited to quick canola growing regions, Nuseed [®] Ceres IMI comes with good blackleg resistance and harvestability. |
| PY323G | Pioneer Hi-Bred Aust | N/A | Pioneer [®] PY323G is an early maturing Optimum GLY [®] hybrid variety. Suited to early-mid and mid-season growing regions. Mid-fast phenology. Medium height. Blackleg resistance rating NA, resistance group NA. Tested in NVT trials 2023. Marketed by Pioneer Seeds. |
| PY421C | Pioneer Hi-Bred Aust | N/A | Pioneer [®] PY421C is an early to mid-maturing hybrid with exceptional yield for maturity and widely adapted. Blackleg rating of 'R-MR', resistance group A. Marketed by Pioneer Seeds. |
| PY422G | Pioneer Hi-Bred Aust | N/A | Pioneer [®] PY422G is an early-mid maturing Optimum GLY [®] hybrid variety. Suited to early-mid and mid-season growing regions. Mid-fast phenology. Medium height. Blackleg resistance rating NA, resistance group NA. Tested in NVT trials 2023. Marketed by Pioneer Seeds. |
| PY424GC | Pioneer Hi-Bred Aust | N/A | Variety description not supplied. |

* EPR amount is ex-GST, [Ⓛ] denotes Plant Breeder's Rights apply. ¹ 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

Canola variety yield performance – Mallee South Australia and Victoria

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: Birchip low-med rainfall GLY.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|--------------------------|---------------|---------------|---------------|---------------|---------------|
| Mean yield (t/ha) | 2.65 | 2.69 | | 2.54 | 2.74 |
| InVigor® R 4520P | | 109 | Trial failed | 107 | 110 |
| InVigor® LR 4540P | | | | 107 | 110 |
| Nuseed® Hunter TF | | | | 106 | 107 |
| InVigor® R 4022P | 113 | 103 | | 101 | 103 |
| Pioneer® 44Y30 RR | | | | 104 | 103 |
| PY424GC | | | | | 104 |
| PY323G | | | | | 101 |
| Pioneer® 44Y27 (RR) | 98 | 101 | | | 102 |
| Hyola® Regiment XC | | | | | 101 |
| Nuseed® Emu TF | | 101 | | | 92 |
| | | | | | 99 |
| Sowing date | 30 Apr | 22 Apr | 10 May | 21 Apr | 11 May |
| Rainfall J–M (mm) | 14 | 101 | 25 | 60 | 23 |
| Rainfall A–O (mm) | 197 | 205 | 172 | 384 | 118 |

Special thanks to 2023 trial cooperator, Linc Lehmann.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 2: Hopetoun low-med rainfall GLY.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|--------------------------|---------------|---------------|---------------|---------------|---------------|
| Mean yield (t/ha) | 1.91 | 2.12 | | 3.93 | 1.14 |
| InVigor® R 4520P | | 107 | Trial failed | 106 | 105 |
| InVigor® LR 4540P | | | | 107 | 106 |
| Nuseed® Hunter TF | | | | 107 | 110 |
| InVigor® R 4022P | 115 | 103 | | 101 | 96 |
| PY323G | | | | | 105 |
| Pioneer® 44Y30 RR | | | | 104 | 103 |
| Hyola® Regiment XC | | | | | 111 |
| PY424GC | | | | | 97 |
| Nuseed® Emu TF | | 105 | | | 94 |
| Pioneer® 44Y27 (RR) | 98 | 101 | | | 104 |
| | | | | | 97 |
| Sowing date | 26 Apr | 24 Apr | 25 May | 26 Apr | 24 Apr |
| Rainfall J–M (mm) | 16 | 119 | 31 | 43 | 30 |
| Rainfall A–O (mm) | 152 | 232 | 168 | 360 | 161 |

Special thanks to 2023 trial cooperator, Ross Brown.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 3: Lameroo low-med rainfall GLY.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|--------------------------|----------|----------|--------------|------------|--------------|
| Mean yield (t/ha) | | | | 2.05 | |
| InVigor® R 4520P | No trial | No trial | Trial failed | 122 | Trial failed |
| InVigor® LR 4540P | | | | 121 | |
| Nuseed® Hunter TF | | | | 113 | |
| InVigor® R 4022P | | | | 110 | |
| Pioneer® 44Y27 (RR) | | | | 105 | |
| Pioneer® 44Y30 RR | | | | 104 | |
| Nuseed® Emu TF | | | | 102 | |
| Nuseed® Raptor TF | | | | 95 | |
| Hyola® Battalion XC | | | | 87 | |
| DG Lofty TF | | | | 82 | |
| Sowing date | | | | | |
| Rainfall J–M (mm) | | | 52 | 30 | 36 |
| Rainfall A–O (mm) | | | 149 | 302 | 194 |

Special thanks to 2023 trial cooperator, Longtrial Farms, Parilla.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 4: Birchip low-med rainfall IMI.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|--------------------------|---------------|---------------|--------------|---------------|---------------|
| Mean yield (t/ha) | 2.52 | 2.50 | | 2.54 | 2.73 |
| PY421C | | | Trial failed | | 115 |
| Pioneer® 44Y94 CL | | | | 110 | 109 |
| Pioneer® 44Y90 (CL) | 110 | 103 | | | |
| Hyola® Continuum CL | | | | 101 | 101 |
| Saintly CL | 101 | | | | |
| Hyola® 575CL | 95 | | | | |
| Pioneer® 43Y92 (CL) | 97 | 98 | | 100 | 98 |
| Nuseed® Ceres IMI | | | | 96 | 99 |
| Hyola® Equinox CL | | | | 98 | |
| Hyola® Solstice CL | | | | | 95 |
| Sowing date | 30 Apr | 22 Apr | | 10 May | 21 Apr |
| Rainfall J–M (mm) | 14 | 101 | 25 | 60 | 23 |
| Rainfall A–O (mm) | 197 | 205 | 172 | 384 | 118 |

Special thanks to 2023 trial cooperator, Linc Lehmann.

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 have not been included in this trial, but have been tested in other herbicide trials at this location: Hyola® Battalion XC, Hyola® Defender CT, Hyola® Enforcer CT and Hyola® Regiment XC.

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

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Table 5: Hopetoun low-med rainfall IMI.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|--------------------------|---------------|---------------|---------------|---------------|---------------|
| Mean yield (t/ha) | 1.92 | 2.04 | | 3.82 | 1.34 |
| PY421C | | | Trial failed | | 117 |
| Pioneer® 44Y94 CL | | | | 109 | 113 |
| Pioneer® 44Y90 (CL) | 109 | 102 | | | |
| Saintly CL | 103 | | | | |
| Hyola® Continuum CL | | | | 99 | 108 |
| Pioneer® 43Y92 (CL) | 96 | 98 | | 100 | 104 |
| Hyola® 575CL | 93 | | | | |
| Hyola® Equinox CL | | | | 96 | |
| Nuseed® Ceres IMI | | | | 95 | 106 |
| Hyola® Solstice CL | | | | | 122 |
| Sowing date | 26 Apr | 24 Apr | 25 May | 26 Apr | 24 Apr |
| Rainfall J–M (mm) | 16 | 119 | 31 | 43 | 30 |
| Rainfall A–O (mm) | 152 | 232 | 168 | 360 | 161 |

Special thanks to 2023 trial cooperator, Ross Brown.

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 have not been included in this trial, but have been tested in other herbicide trials at this location: Hyola® Battalion XC, Hyola® Defender CT, Hyola® Enforcer CT and Hyola® Regiment XC.

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

Table 6: Lameroo low-med rainfall IMI.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|--------------------------|---------------|---------------|---------------|--------------|---------------|
| Mean yield (t/ha) | 0.96 | 1.02 | | 2.19 | 1.57 |
| PY421C | | | Trial failed | | 102 |
| Pioneer® 44Y94 CL | 103 | | | 114 | 100 |
| Saintly CL | 107 | | | | |
| Pioneer® 44Y90 (CL) | 103 | 103 | | | |
| Nuseed® Ceres IMI | | | | 97 | 109 |
| Hyola® Continuum CL | | | | 99 | 102 |
| Hyola® Equinox CL | | | | 91 | |
| Pioneer® 43Y92 (CL) | 97 | 101 | | 95 | 100 |
| Hyola® Solstice CL | | | | | 112 |
| VICTORY® V7002CL | | 100 | | | |
| Sowing date | 11 May | 28 Apr | 25 May | 3 May | 27 Apr |
| Rainfall J–M (mm) | 2 | 56 | 52 | 30 | 36 |
| Rainfall A–O (mm) | 166 | 241 | 149 | 302 | 194 |

Special thanks to 2023 trial cooperator, Longtrail Farms, Parilla.

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 have not been included in this trial, but have been tested in other herbicide trials at this location: Hyola® Battalion XC, Hyola® Defender CT, Hyola® Enforcer CT and Hyola® Regiment XC.

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

Table 7: Birchip low-med rainfall TT.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------|---------------|---------------|---------------|---------------|---------------|
| Mean yield (t/ha) | 2.41 | 2.46 | | 2.28 | 2.75 |
| Hyola® Blazer TT | 115 | 109 | Trial failed | | 111 |
| Hyola® Defender CT | | | | 109 | 107 |
| InVigor® LT 4530P | | 104 | | 107 | 106 |
| Renegade TT [Ⓛ] | | | | 103 | 105 |
| DG Bidgee TT [Ⓛ] | | | | 105 | 102 |
| HyTTec® Trident | 100 | 104 | | 108 | 108 |
| HyTTec® Trophy | 102 | 104 | | 107 | 107 |
| InVigor® T 4510 | 104 | 103 | | 105 | 105 |
| HyTTec® Velocity | | | | 104 | 108 |
| Hyola® Enforcer CT | 98 | 99 | | 105 | 102 |
| Sowing date | 30 Apr | 22 Apr | 10 May | 21 Apr | 25 Apr |
| Rainfall J–M (mm) | 14 | 101 | 25 | 60 | 23 |
| Rainfall A–O (mm) | 197 | 205 | 172 | 384 | 118 |

Special thanks to 2023 trial cooperator, Linc Lehmann.

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

Table 8: Hopetoun low-med rainfall TT.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------|---------------|---------------|---------------|---------------|---------------|
| Mean yield (t/ha) | 1.61 | 2.17 | | 3.67 | 0.98 |
| Hyola® Blazer TT | | 107 | Trial failed | | 124 |
| HyTTec® Trident | 103 | 105 | | 109 | 119 |
| Hyola® Defender CT | | | | 106 | 115 |
| HyTTec® Velocity | | 109 | | 105 | 122 |
| HyTTec® Trophy | 103 | 105 | | 107 | 120 |
| InVigor® LT 4530P | | 102 | | 108 | 94 |
| InVigor® T 4510 | 107 | 103 | | 106 | 105 |
| Renegade TT [Ⓛ] | | | | 102 | 94 |
| Hyola® Enforcer CT | | 101 | | 103 | 121 |
| DG Bidgee TT [Ⓛ] | | | | 100 | 109 |
| Sowing date | 26 Apr | 24 Apr | 25 May | 26 Apr | 24 Apr |
| Rainfall J–M (mm) | 16 | 119 | 31 | 43 | 30 |
| Rainfall A–O (mm) | 152 | 232 | 168 | 360 | 161 |

Special thanks to 2023 trial cooperator, Ross Brown.

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

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Table 9: Lameroo low-med rainfall TT.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|--------------------------|---------------|---------------|---------------|--------------|---------------|
| Mean yield (t/ha) | 0.94 | 1.03 | | 1.86 | |
| InVigor® LT 4530P | | | Trial failed | 117 | Trial failed |
| HyITec® Trident | 105 | 104 | | 114 | |
| HyITec® Velocity | | | | 117 | |
| Hyola® Defender CT | | | | 113 | |
| InVigor® T 4510 | 106 | 102 | | 112 | |
| Renegade TT [®] | | | | 114 | |
| HyITec® Trophy | 103 | 104 | | 111 | |
| InVigor® T 4511 | | | | 101 | |
| RGT Capacity TT | | 100 | | 102 | |
| SF Spark TT | 100 | 99 | | 98 | |
| Sowing date | 11 May | 28 Apr | 25 May | 3 May | 27 Apr |
| Rainfall J–M (mm) | 2 | 56 | 52 | 30 | 36 |
| Rainfall A–O (mm) | 166 | 241 | 149 | 302 | 194 |

Special thanks to 2023 trial cooperator, Longtrail Farms, Parilla.
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 2024.

Varieties are listed in alphabetical order and disease ratings are colour-coded to match resistance and susceptibility ratings.

Table 10: Canola disease guide – 2024 autumn blackleg ratings and resistance groups.

| Variety | 2024 Blackleg rating Bare | 2024 Blackleg rating ILeVo® | 2024 Blackleg rating Saltro® | Type | Section A – resistance group of cultivar | Section B – resistance group of previous year’s cultivar (stubble) | | | | | | | | | | | | | | | | | |
|------------------------------------|---------------------------|-----------------------------|------------------------------|----------------------------|--|--|---|---|----|----|----|-----|-----|-----|-----|------|------|-----|----|----|---|----|-----|
| | | | | | | A | B | C | AB | AC | AD | ABC | ABD | ABF | ABS | ABDF | ABDS | ADF | BF | BC | H | AH | ACH |
| CONVENTIONAL VARIETIES | | | | | | | | | | | | | | | | | | | | | | | |
| Outlaw [Ⓟ] | RMR | | | Open pollinated | A | | | | | | | | | | | | | | | | | | |
| Nuseed® Quartz | RMR | | | Hybrid | ABD | | | | | | | | | | | | | | | | | | |
| Nuseed® Diamond | RMR | R | R | Hybrid | ABF | | | | | | | | | | | | | | | | | | |
| TRIAZINE-TOLERANT VARIETIES | | | | | | | | | | | | | | | | | | | | | | | |
| HyTTec® Trifecta | R | | | Hybrid | ABD | | | | | | | | | | | | | | | | | | |
| HyTTec® Trident | R | | | Hybrid | AD | | | | | | | | | | | | | | | | | | |
| Monola® H524TT | R | | | High stability oil, hybrid | AD | | | | | | | | | | | | | | | | | | |
| DG Bidgee TT [Ⓟ] | R | R | R | Open pollinated | H | | | | | | | | | | | | | | | | | | |
| HyTTec® Trophy | R | R | R | Hybrid | AD | | | | | | | | | | | | | | | | | | |
| DG Torrens TT [Ⓟ] | RMR | | | Open pollinated | H | | | | | | | | | | | | | | | | | | |
| Hyola® Blazer TT | RMR | | R | Hybrid | ADF | | | | | | | | | | | | | | | | | | |
| InVigor® T 4511 | RMR | R | | Hybrid | Different blackleg resistance pattern, further testing required. Effective rotation with existing groups currently unknown | | | | | | | | | | | | | | | | | | |
| Monola® H421TT | RMR | | | High stability oil, hybrid | BC | | | | | | | | | | | | | | | | | | |
| ATR-Bluefin [Ⓟ] | RMR | | | Open pollinated | AB | | | | | | | | | | | | | | | | | | |
| DG Avon TT [Ⓟ] | MR | R | R | Open pollinated | AC | | | | | | | | | | | | | | | | | | |
| SF Spark™ TT | MR | R | R | Hybrid | ABDS | | | | | | | | | | | | | | | | | | |
| InVigor® T 4510 | MR | R | R | Hybrid | BF | | | | | | | | | | | | | | | | | | |
| Renegade TT [Ⓟ] | MR | | | Open pollinated | A | | | | | | | | | | | | | | | | | | |
| HyTTec® Velocity | MR | | | Hybrid | AB | | | | | | | | | | | | | | | | | | |
| Monola® 422TT | MRMS | | | Open pollinated | BC | | | | | | | | | | | | | | | | | | |
| ATR-Swordfish [Ⓟ] | MRMS | | | Open pollinated | AB | | | | | | | | | | | | | | | | | | |
| SF Dynatron™ TT | MRMS | R | R | Hybrid | BC | | | | | | | | | | | | | | | | | | |
| RGT Baseline™ TT | MRMS | R | R | Hybrid | B | | | | | | | | | | | | | | | | | | |
| Bandit TT [Ⓟ] | MRMS | R | R | Open pollinated | A | | | | | | | | | | | | | | | | | | |
| RGT Capacity™ TT | MRMS | RMR | R | Hybrid | B | | | | | | | | | | | | | | | | | | |
| AFP Cutubury [Ⓟ] | MS | MR | RMR | Open pollinated | AB | | | | | | | | | | | | | | | | | | |
| ATR-Bonito [Ⓟ] | MS | RMR | R | Open pollinated | A | | | | | | | | | | | | | | | | | | |

Continued on next page

Table 10: Canola disease guide – 2024 autumn blackleg ratings and resistance groups (continued).

| Variety | 2024 Blackleg rating Bare | 2024 Blackleg rating ILeVo® | 2024 Blackleg rating Saltro® | Type | Section A – resistance group of cultivar | Section B – resistance group of previous year’s cultivar (stubble) | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------------|-----------------------------|------------------------------|---|--|--|---|---|----|----|----|-----|-----|-----|-----|------|------|-----|----|----|---|----|-----|-----|------|--|--|
| | | | | | | A | B | C | AB | AC | AD | ABC | ABD | ABF | ABS | ABDF | ABDS | ADF | BF | BC | H | AH | ACH | ABH | ADFH | | |
| IMIDAZOLINONE-TOLERANT VARIETIES | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyola® Continuum CL | R | | R | Hybrid, Clearfield® | ADF | | | | | | | | | | | | | | | | | | | | | | |
| Hyola® Solstice CL | R | | R | Hybrid, Clearfield® | ADFH | | | | | | | | | | | | | | | | | | | | | | |
| Captain CL | R | | | Winter, hybrid, Clearfield® | AH | | | | | | | | | | | | | | | | | | | | | | |
| Hyola® Feast CL | R | | R | Winter, hybrid, Clearfield® | H | | | | | | | | | | | | | | | | | | | | | | |
| RGT Nizza™ CL | R | | | Winter, hybrid, Clearfield® | B | | | | | | | | | | | | | | | | | | | | | | |
| Hyola® 970CL | R | | R | Winter, hybrid, Clearfield® | H | | | | | | | | | | | | | | | | | | | | | | |
| Phoenix CL | R | | | Winter, hybrid, Clearfield® | B | | | | | | | | | | | | | | | | | | | | | | |
| Pioneer® 45Y93 CL | R | | R | Hybrid, Clearfield® | BC | | | | | | | | | | | | | | | | | | | | | | |
| RGT Clavier™ CL | R | | | Winter, hybrid, Clearfield® | ACH | | | | | | | | | | | | | | | | | | | | | | |
| Pioneer® PN526C | RMR | | | High stability oil, Hybrid, Clearfield® | ABD | | | | | | | | | | | | | | | | | | | | | | |
| Pioneer® 45Y95 CL | RMR | | R | Hybrid, Clearfield® | C | | | | | | | | | | | | | | | | | | | | | | |
| Nuseed® Ceres IML | RMR | | | Hybrid | AD | | | | | | | | | | | | | | | | | | | | | | |
| Pioneer® 43Y92 CL | RMR | | R | Hybrid, Clearfield® | B | | | | | | | | | | | | | | | | | | | | | | |
| Pioneer® 44Y94 CL | RMR | | R | Hybrid, Clearfield® | BC | | | | | | | | | | | | | | | | | | | | | | |
| Pioneer® PY421C | RMR | | R | Hybrid, Clearfield® | A | | | | | | | | | | | | | | | | | | | | | | |
| VICTORY® V75-03CL | RMR | | | High stability oil, hybrid, Clearfield® | AB | | | | | | | | | | | | | | | | | | | | | | |
| IMIDAZOLINONE AND TRIAZINE-TOLERANT VARIETIES | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyola® Defender CT | R | | R | Hybrid, Clearfield®, Triazine | ADF | | | | | | | | | | | | | | | | | | | | | | |
| Hyola® Enforcer CT | R | | | Hybrid, Clearfield®, Triazine | ADF | | | | | | | | | | | | | | | | | | | | | | |
| Pioneer® PY520 TC | MR | | R | Hybrid, Clearfield®, Triazine | BC | | | | | | | | | | | | | | | | | | | | | | |
| GLYPHOSATE-TOLERANT VARIETIES | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DG Hotham TF | R | | | Hybrid, TruFlex® | ABH | | | | | | | | | | | | | | | | | | | | | | |
| Nuseed® Raptor TF | R | | | Hybrid, TruFlex® | AD | | | | | | | | | | | | | | | | | | | | | | |
| Nuseed® Eagle TF | R | | | Hybrid, TruFlex® | ABD | | | | | | | | | | | | | | | | | | | | | | |
| VICTORY® V55-04TF | R | | R | High stability oil, hybrid, TruFlex® | AB | | | | | | | | | | | | | | | | | | | | | | |
| DG Lofty TF | R | | | Hybrid, TruFlex® | ABH | | | | | | | | | | | | | | | | | | | | | | |
| Nuseed® Hunter TF | RMR | | | Hybrid, TruFlex® | AB | | | | | | | | | | | | | | | | | | | | | | |
| Pioneer® 45Y28 RR | RMR | | R | Hybrid, Roundup Ready® | BC | | | | | | | | | | | | | | | | | | | | | | |
| Pioneer® 44Y27 RR | RMR | | R | Hybrid, Roundup Ready® | B | | | | | | | | | | | | | | | | | | | | | | |
| Pioneer® 44Y30 RR | RMR | | R | Hybrid, Roundup Ready® | AB | | | | | | | | | | | | | | | | | | | | | | |
| Pioneer® PY422G | MR | | R | Hybrid, Optimum GLY® | AB | | | | | | | | | | | | | | | | | | | | | | |
| Nuseed® Emu TF | MR | | | Hybrid, TruFlex® | AB | | | | | | | | | | | | | | | | | | | | | | |
| Pioneer® PY525G | MR | | R | Hybrid, Optimum GLY® | AB | | | | | | | | | | | | | | | | | | | | | | |

Continued on next page

Table 10: Canola disease guide – 2024 autumn blackleg ratings and resistance groups (continued).

| Variety | 2024 Blackleg rating Bare | 2024 Blackleg rating ILeVo® | 2024 Blackleg rating Saltro® | Type | Section A – resistance group of cultivar | Section B – resistance group of previous year’s cultivar (stubble) | | | | | | | | | | | | | | | | | | | | |
|--|---------------------------|-----------------------------|------------------------------|--------------------------------|--|--|---|---|----|----|----|-----|-----|-----|-----|------|------|-----|----|----|---|----|-----|-----|------|--|
| | | | | | | A | B | C | AB | AC | AD | ABC | ABD | ABF | ABS | ABDF | ABDS | ADF | BF | BC | H | AH | ACH | ABH | ADFH | |
| GLYPHOSATE-TOLERANT VARIETIES | | | | | | | | | | | | | | | | | | | | | | | | | | |
| InVigor® R 4022P | MRMS | R | | Hybrid, TruFlex® | ABC | | | | | | | | | | | | | | | | | | | | | |
| InVigor® R 4520P | MRMS | R | | Hybrid, TruFlex® | B | | | | | | | | | | | | | | | | | | | | | |
| Pioneer® PY323G | MRMS | | R | Hybrid, Optimum GLY® | BC | | | | | | | | | | | | | | | | | | | | | |
| GLYPHOSATE AND IMIDAZOLINONE-TOLERANT VARIETIES | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyola® Regiment XC | R | | R | Hybrid, TruFlex®, Clearfield® | ADFH | | | | | | | | | | | | | | | | | | | | | |
| Hyola® Battalion XC | RMR | | | Hybrid, TruFlex®, Clearfield® | ADF | | | | | | | | | | | | | | | | | | | | | |
| Hyola® Garrison XC | RMR | | R | Hybrid, TruFlex®, Clearfield® | ADF | | | | | | | | | | | | | | | | | | | | | |
| GLUFOSINATE AND TRIAZINE-TOLERANT VARIETIES | | | | | | | | | | | | | | | | | | | | | | | | | | |
| InVigor® LT 4530P | RMR | R | | Hybrid, LibertyLink®, Triazine | BF | | | | | | | | | | | | | | | | | | | | | |
| GLUFOSINATE AND GLYPHOSATE-TOLERANT VARIETIES | | | | | | | | | | | | | | | | | | | | | | | | | | |
| InVigor® LR 4540P | RMR | R | | Hybrid, LibertyLink®, TruFlex® | B | | | | | | | | | | | | | | | | | | | | | |

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

Section B: Green = best possible rotation (no resistance genes in common)
 Yellow = okay rotation (at least one resistance gene not in common)
 Red = not advised (all resistance genes in common)

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

CHICKPEA

Chickpea variety yield performance – Mallee South Australia and Victoria

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: Birchip desi chickpea.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------|---------------|---------------|---------------|---------------|---------------|
| Mean yield (t/ha) | 1.47 | 2.11 | 2.13 | | 1.70 |
| PBA Striker ^{db} | 117 | 104 | 101 | Trial failed | 119 |
| PBA Maiden ^{db} | 106 | 101 | 99 | | 117 |
| PBA Slasher ^{db} | 111 | 102 | 103 | | 103 |
| Ambar ^{db} | 113 | | | | |
| Neelam ^{db} | 101 | 102 | 99 | | 108 |
| CBA Captain ^{db} | 104 | 96 | 101 | | 96 |
| Sowing date | 14 May | 14 May | 20 May | 10 May | 16 May |
| Rainfall J–M (mm) | 14 | 101 | 25 | 60 | 23 |
| Rainfall A–O (mm) | 197 | 205 | 172 | 384 | 118 |

Special thanks to 2023 trial cooperator, Linc Lehmann.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 2: Rainbow desi chickpea.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------|---------------|---------------|---------------|---------------|---------------|
| Mean yield (t/ha) | 1.32 | 1.57 | 1.42 | 1.73 | 2.31 |
| PBA Striker ^{db} | 111 | 104 | 106 | 107 | 108 |
| PBA Maiden ^{db} | 107 | 102 | 100 | 103 | 106 |
| PBA Slasher ^{db} | 102 | 100 | 107 | 103 | 101 |
| Neelam ^{db} | 103 | 102 | 98 | 103 | 102 |
| CBA Captain ^{db} | 104 | 99 | 105 | 93 | 104 |
| Ambar ^{db} | 98 | | | | |
| PBA Seamer ^{db} | | | | 92 | |
| Sowing date | 17 May | 23 May | 18 May | 20 May | 16 May |
| Rainfall J–M (mm) | 22 | 88 | 51 | 76 | 33 |
| Rainfall A–O (mm) | 199 | 253 | 205 | 421 | 198 |

Special thanks to 2023 trial cooperator, Brett Fisher.
Learn more via the [NVT Long Term Yield Reporter](#)

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEAS

LENTIL

LUPIN

Refer to the latest *Crop Sowing Guide* for further information at nvt.grdc.com.au/resources/crop-sowing-guides

Table 3: Birchchip kabuli chickpea.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------|---------------|---------------|---------------|---------------|---------------|
| Mean yield (t/ha) | 1.51 | 2.15 | 2.19 | | 1.91 |
| Genesis™ 090 | 97 | 100 | 103 | Trial failed | 94 |
| PBA Magnus ^{db} | 101 | 95 | 100 | | 98 |
| PBA Royal ^{db} | 100 | 100 | 104 | | 88 |
| PBA Monarch ^{db} | 95 | 100 | 97 | | 98 |
| Almaz ^{db} | 90 | 101 | | | 86 |
| Genesis™ Kalkee | 86 | 101 | 93 | | |
| Sowing date | 14 May | 14 May | 20 May | 10 May | 16 May |
| Rainfall J–M (mm) | 14 | 101 | 25 | 60 | 23 |
| Rainfall A–O (mm) | 197 | 205 | 172 | 384 | 118 |

Special thanks to 2023 trial cooperator, Linc Lehmann.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 4: Rainbow kabuli chickpea.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------|---------------|---------------|---------------|---------------|---------------|
| Mean yield (t/ha) | 1.42 | 1.47 | 1.31 | 1.37 | 2.18 |
| PBA Magnus ^{db} | 104 | 99 | 101 | | 106 |
| PBA Royal ^{db} | 98 | 99 | 109 | 98 | 98 |
| PBA Monarch ^{db} | 98 | 101 | 91 | 99 | 99 |
| Genesis™ 090 | 94 | 97 | 105 | 100 | 93 |
| Almaz ^{db} | 93 | 101 | | 100 | 94 |
| Genesis™ Kalkee | 94 | 103 | 79 | 99 | |
| Sowing date | 17 May | 23 May | 18 May | 20 May | 16 May |
| Rainfall J–M (mm) | 22 | 88 | 51 | 76 | 33 |
| Rainfall A–O (mm) | 199 | 253 | 205 | 421 | 198 |

Special thanks to 2023 trial cooperator, Brett Fisher.
Learn more via the [NVT Long Term Yield Reporter](#)

Chickpea variety disease ratings – South Australia and Victoria

The following table contains varietal ratings for the predominant diseases of chickpea in South Australia and Victoria. These ratings are updated annually by crop pathologists and were released in March 2024. Selected varieties of most relevance to South Australian and Victorian growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and tolerance ratings.

Table 5: Chickpea disease guide for South Australia and Victoria.

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

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

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

FABA BEAN

Faba bean variety yield performance – Mallee South Australia and Victoria

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: Lameroo faba bean.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|----------------------------|---------------|--------------|-------------------|---------------|-------------------|
| Mean yield (t/ha) | 0.97 | | | 4.67 | |
| PBA Zahra ^{db} | 100 | Trial failed | Compromised trial | 108 | Compromised trial |
| PBA Amberley ^{db} | 96 | | | 105 | |
| PBA Samira ^{db} | 96 | | | 104 | |
| PBA Bendoc ^{db*} | 104 | | | 101 | |
| Farah ^{db} | 88 | | | 100 | |
| Fiesta VF | 86 | | | 98 | |
| Nura ^{db} | 94 | | | 96 | |
| PBA Marne ^{db} | 80 | | | 96 | |
| PBA Rana ^{db} | 82 | | | 91 | |
| Sowing date | 11 May | | | 28 Apr | |
| Rainfall J–M (mm) | 2 | 56 | 52 | 30 | 37 |
| Rainfall A–O (mm) | 166 | 241 | 149 | 302 | 201 |

Special thanks to 2023 trial cooperator, Andy Hunt.

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

Refer to the latest *Crop Sowing Guide* for further information at nvt.grdc.com.au/resources/crop-sowing-guides

Faba bean variety disease ratings – South Australia and Victoria

The following table contains varietal ratings for the predominant diseases of faba bean in South Australia and Victoria. These ratings are updated annually by crop pathologists and were released in March 2024. Selected varieties of most relevance to South Australian and Victorian growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and tolerance ratings.

Table 2: Faba bean disease guide for South Australia and Victoria.

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

- WHEAT
- BARLEY
- OAT
- CANOLA
- CHICKPEA
- FABA BEAN
- FIELD PEA
- LENTIL
- LUPIN

FIELD PEA

New field pea varieties

The following information is for field pea 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 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 ¹ |
|------------------------|----------------------|-------------------------|--|
| APB Bondi [Ⓛ] | Agriculture Victoria | TBC | APB Bondi [Ⓛ] (tested as OZP1903) is a Kasper-type pea with mid-flowering and mid-maturity. APB Bondi [Ⓛ] combines a number of traits in a semi-leafless and semi-dwarf background. It is rated resistant to moderately resistant to downy mildew; resistant to powdery mildew, pea seed-borne mosaic virus and bean leaf roll virus; tolerant to boron toxicity and moderately tolerant to salinity. It has a high yield potential and wide adaptation. Seed is marketable as Kasper pea. |

* EPR amount is ex-GST, [Ⓛ] denotes Plant Breeder's Rights apply. ¹ All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder.

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

Field pea variety yield performance – Mallee South Australia and Victoria

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: Birchip field pea.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 | |
|---------------------------|---------------|---------------|---------------|--------------|---------------|---------------|
| Mean yield (t/ha) | 2.79 | 2.76 | 2.83 | | 2.79 | |
| PBA Butler ^{db} | 112 | | 108 | Trial failed | 111 | |
| APB Bondi ^{db} | | 107 | 106 | | 109 | |
| PBA Taylor ^{db} | 110 | 105 | 105 | | 104 | |
| PBA Pearl | 106 | 105 | 101 | | 107 | |
| Kaspa | 103 | 102 | 105 | | 106 | |
| PBA Noosa ^{db} | 106 | 100 | 101 | | 107 | |
| PBA Gonyah ^{db} | 98 | | 101 | | 96 | |
| PBA Wharton ^{db} | 99 | 97 | 96 | | 89 | |
| PBA Oura ^{db} | 91 | 98 | 95 | | 90 | |
| PBA Percy | 85 | 99 | 96 | | 93 | |
| Sowing date | 14 May | 14 May | 20 May | | 10 May | 16 May |
| Rainfall J–M (mm) | 14 | 101 | 25 | | 60 | 23 |
| Rainfall A–O (mm) | 197 | 205 | 172 | 384 | 118 | |

Special thanks to 2023 trial cooperator, Linc Lehmann.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 2: Lameroo field pea.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 | |
|---------------------------|---------------|--------------|---------------|---------------|---------------|--------------|
| Mean yield (t/ha) | 0.21 | | 1.62 | 3.94 | 2.01 | |
| PBA Pearl | 155 | Trial failed | 100 | 110 | 110 | |
| PBA Butler ^{db} | 113 | | 104 | 110 | 109 | |
| APB Bondi ^{db} | | | 105 | 106 | 113 | |
| PBA Taylor ^{db} | 90 | | 106 | 103 | 107 | |
| PBA Noosa ^{db} | 126 | | 97 | 101 | 103 | |
| Kaspa | 88 | | 100 | 102 | 99 | |
| PBA Percy | 97 | | 98 | 104 | 93 | |
| PBA Gonyah ^{db} | 71 | | 103 | 98 | 98 | |
| PBA Oura ^{db} | 85 | | 102 | 98 | 97 | |
| PBA Wharton ^{db} | 71 | | 105 | 91 | 100 | |
| Sowing date | 21 May | | 18 May | 3 June | 16 May | 4 May |
| Rainfall J–M (mm) | 2 | | 56 | 52 | 30 | 37 |
| Rainfall A–O (mm) | 166 | 241 | 149 | 302 | 201 | |

Special thanks to 2023 trial cooperator, Flohr & Co, Panalatinga.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 3: Ouyen field pea.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 | | |
|---------------------------|----------|------------|-------------------|---------------|---------------|---------------|---------------|
| Mean yield (t/ha) | | 2.07 | | 3.37 | 2.11 | | |
| APB Bondi ^{db} | No trial | 109 | Compromised trial | 118 | 114 | | |
| PBA Butler ^{db} | | | | 115 | 111 | | |
| PBA Taylor ^{db} | | 104 | | 110 | 111 | | |
| PBA Pearl | | 109 | | 111 | 102 | | |
| PBA Noosa ^{db} | | 103 | | 106 | 102 | | |
| Kaspa | | 98 | | 104 | 104 | | |
| PBA Gonyah ^{db} | | | | 96 | 101 | | |
| PBA Wharton ^{db} | | 99 | | 94 | 101 | | |
| PBA Oura ^{db} | | 97 | | 90 | 94 | | |
| PBA Percy | | 95 | | 88 | 88 | | |
| Sowing date | | | | 12 May | 25 May | 10 May | 12 May |
| Rainfall J–M (mm) | | | | 50 | 25 | 89 | 41 |
| Rainfall A–O (mm) | | 277 | 157 | 387 | 196 | | |

Special thanks to 2023 trial cooperator, Scott Anderson.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 4: Rainbow field pea.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------|---------------|---------------|---------------|---------------|---------------|
| Mean yield (t/ha) | 2.58 | 1.15 | 2.62 | 3.19 | 2.91 |
| PBA Butler ^{db} | 113 | | 110 | 109 | 109 |
| APB Bondi ^{db} | | 104 | 111 | 112 | 109 |
| PBA Taylor ^{db} | 109 | 117 | 110 | 102 | 105 |
| PBA Pearl | 102 | 88 | 98 | 119 | 108 |
| Kaspa | 106 | 102 | 106 | 96 | 101 |
| PBA Gonyah ^{db} | 104 | | 102 | 92 | 98 |
| PBA Noosa ^{db} | 97 | 78 | 102 | 107 | 103 |
| PBA Wharton ^{db} | 97 | 118 | 99 | 93 | 95 |
| PBA Oura ^{db} | 98 | 116 | 93 | 95 | 96 |
| PBA Percy | 100 | 109 | 89 | 96 | 97 |
| Sowing date | 17 May | 22 May | 18 May | 20 May | 16 May |
| Rainfall J–M (mm) | 22 | 88 | 51 | 76 | 33 |
| Rainfall A–O (mm) | 199 | 253 | 205 | 421 | 198 |

Special thanks to 2023 trial cooperator, Brett Fisher.
Learn more via the [NVT Long Term Yield Reporter](#)

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

Table 5: Ultima field pea.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|--------------------------|--------------|---------------|---------------|---------------|---------------|
| Mean yield (t/ha) | 0.74 | 1.09 | 1.49 | | 1.78 |
| PBA Pearl | 116 | 147 | 98 | Trial failed | 104 |
| APB Bondi [Ⓟ] | | 105 | 110 | | 112 |
| PBA Butler [Ⓟ] | 103 | | 110 | | 113 |
| PBA Noosa [Ⓟ] | 100 | 107 | 101 | | 104 |
| PBA Taylor [Ⓟ] | 105 | 86 | 109 | | 108 |
| PBA Percy | 98 | 118 | 91 | | 92 |
| PBA Oura [Ⓟ] | 105 | 110 | 93 | | 91 |
| Kaspa | 89 | 76 | 107 | | 106 |
| PBA Wharton [Ⓟ] | 107 | 90 | 99 | | 94 |
| PBA Gunyah [Ⓟ] | 97 | | 102 | | 99 |
| Sowing date | 8 May | 11 May | 11 May | 10 May | 19 May |
| Rainfall J–M (mm) | 18 | 47 | 29 | 63 | 34 |
| Rainfall A–O (mm) | 161 | 233 | 199 | 453 | 209 |

Special thanks to 2023 trial cooperator, Warrick Grey.
Learn more via the [NVT Long Term Yield Reporter](#)

Field pea variety disease ratings – South Australia and Victoria

The following table contains varietal ratings for the predominant diseases of field pea in South Australia and Victoria. These ratings are updated annually by crop pathologists and were released in March 2024. Selected varieties of most relevance to South Australian and Victorian growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and tolerance ratings.

Table 6: Field pea disease guide for South Australia and Victoria.

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

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

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, (P) = provisional rating, () show outlier.

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

LENTIL

New lentil varieties

The following information is for lentil 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 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 ¹ |
|---------------------------|----------------------|-------------------------|---|
| ALB Terrier ^{db} | Agriculture Victoria | TBC | ALB Terrier ^{db} is an imidazolinone herbicide tolerant, small market class red lentil with mid-flowering and maturity characteristics. It is rated RMR to pathotype two of Ascochyta, which is the best in its class. It is broadly adapted to various lentil growing regions of Australia. |

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

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

Lentil variety yield performance – Mallee South Australia and Victoria

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: Birchchip lentil. | | | | | |
|----------------------------------|---------------|---------------|---------------|--------------|-------------------|
| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
| Mean yield (t/ha) | 2.43 | 2.21 | 2.79 | | |
| GIA Lightning ^{(d)*} | | 105 | 110 | Trial failed | Compromised trial |
| GIA Thunder ^{(d)*} | | 111 | 106 | | |
| ALB Terrier ^(d) | | | 102 | | |
| PBA Ace ^(d) | 109 | 102 | 107 | | |
| GIA Leader ^{(d)*} | 102 | 105 | 99 | | |
| PBA Hurricane XT ^{(d)*} | 100 | 100 | 99 | | |
| PBA Jumbo2 ^(d) | 99 | 99 | 99 | | |
| PBA Bolt ^(d) | 99 | 92 | 102 | | |
| PBA HighlandXT ^{(d)*} | 98 | 95 | 100 | | |
| PBA Hallmark XT ^{(d)*} | 93 | 98 | 94 | | |
| Sowing date | 14 May | 14 May | 20 May | | |
| Rainfall J–M (mm) | 14 | 101 | 25 | 60 | 23 |
| Rainfall A–O (mm) | 197 | 205 | 172 | 384 | 118 |

Special thanks to 2023 trial cooperator, Linc Lehmann.

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

| Table 2: Lameroo lentil. | | | | | |
|----------------------------------|---------------|---------------|--------------|---------------|--------------|
| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
| Mean yield (t/ha) | 0.38 | | | 3.30 | 1.48 |
| ALB Terrier ^(d) | | | | 119 | 100 |
| GIA Thunder ^{(d)*} | | | | 117 | 110 |
| PBA Jumbo2 ^(d) | 68 | | | 111 | 109 |
| PBA Hallmark XT ^{(d)*} | 127 | | | 109 | 95 |
| GIA Leader ^{(d)*} | 106 | | | 105 | 92 |
| PBA Hurricane XT ^{(d)*} | 99 | | | 100 | 97 |
| PBA HighlandXT ^{(d)*} | 91 | | | 95 | 107 |
| PBA Kelpie XT ^{(d)*} | 66 | | | 95 | 110 |
| Nipper ^(d) | 109 | | | 97 | 91 |
| GIA Lightning ^{(d)*} | | | | 89 | 105 |
| Sowing date | 21 May | 18 May | 3 Jun | 16 May | 4 May |
| Rainfall J–M (mm) | 2 | 56 | 52 | 30 | 37 |
| Rainfall A–O (mm) | 166 | 241 | 149 | 302 | 201 |

Special thanks to 2023 trial cooperator, Flohr & Co, Panlatinga.

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

| Table 3: Ouyen lentil. | | | | | |
|----------------------------------|----------|----------|-------------------|------------|------------|
| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
| Mean yield (t/ha) | | | | 2.75 | 1.69 |
| ALB Terrier ^(d) | No trial | No trial | Compromised trial | 109 | 106 |
| GIA Thunder ^{(d)*} | | | | 108 | 105 |
| PBA Hallmark XT ^{(d)*} | | | | 103 | 102 |
| GIA Leader ^{(d)*} | | | | | 100 |
| PBA Jumbo2 ^(d) | | | | 102 | 99 |
| GIA Lightning ^{(d)*} | | | | 100 | 102 |
| PBA Hurricane XT ^{(d)*} | | | | | 99 |
| PBA HighlandXT ^{(d)*} | | | | 98 | 98 |
| PBA Bolt ^(d) | | | | 93 | 97 |
| PBA Ace ^(d) | | | | 93 | 96 |
| Sowing date | | | | | |
| Rainfall J–M (mm) | | | 25 | 89 | 41 |
| Rainfall A–O (mm) | | | 157 | 387 | 196 |

Special thanks to 2023 trial cooperator, Scott Anderson.

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

| Table 4: Rainbow lentil. | | | | | |
|----------------------------------|---------------|---------------|-------------------|---------------|---------------|
| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
| Mean yield (t/ha) | 1.70 | 1.43 | | 2.81 | 2.31 |
| GIA Thunder ^{(d)*} | | 118 | Compromised trial | 133 | 107 |
| ALB Terrier ^(d) | | | | 129 | 107 |
| PBA Jumbo2 ^(d) | 108 | 92 | | 124 | 101 |
| GIA Lightning ^{(d)*} | | 122 | | 89 | 104 |
| GIA Leader ^{(d)*} | 96 | 91 | | | 103 |
| PBA Hallmark XT ^{(d)*} | 95 | 97 | | 104 | 98 |
| PBA HighlandXT ^{(d)*} | 103 | 101 | | 95 | 98 |
| PBA Hurricane XT ^{(d)*} | 98 | 91 | | | 100 |
| PBA Kelpie XT ^{(d)*} | 104 | 74 | | 105 | 96 |
| PBA Ace ^(d) | 98 | 90 | | 82 | 103 |
| Sowing date | 17 May | 22 May | | 18 May | 20 May |
| Rainfall J–M (mm) | 22 | 88 | 51 | 76 | 33 |
| Rainfall A–O (mm) | 199 | 253 | 205 | 421 | 198 |

Special thanks to 2023 trial cooperator, Brett Fisher.

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

Table 5: Ultima lentil.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------------|-------------------|---------------|-------------------|---------------|---------------|
| Mean yield (t/ha) | | 1.41 | | 3.84 | 1.52 |
| GIA Thunder ^{db*} | Compromised trial | 107 | Compromised trial | 130 | 111 |
| ALB Terrier ^{db} | | | | 126 | 114 |
| PBA Jumbo2 ^{db} | | 91 | | 121 | 95 |
| GIA Leader ^{db*} | | 91 | | | 109 |
| GIA Lightning ^{db*} | | 118 | | 94 | 109 |
| PBA Hurricane XT ^{db*} | | 93 | | | 102 |
| PBA Hallmark XT ^{db*} | | 98 | | 99 | 96 |
| PBA Ace ^{db} | | 92 | | 92 | 110 |
| PBA HighlandXT ^{db*} | | 103 | | 95 | 91 |
| PBA Kelpie XT ^{db*} | | 81 | | 104 | 82 |
| Sowing date | 8 May | 11 May | 11 May | 10 May | 19 May |
| Rainfall J–M (mm) | 18 | 47 | 29 | 63 | 34 |
| Rainfall A–O (mm) | 161 | 233 | 199 | 453 | 209 |

Special thanks to 2023 trial cooperator, Warrick Grey.

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

Lentil variety disease ratings – South Australia and Victoria

The following table contains varietal ratings for the predominant diseases of lentil in South Australia and Victoria. These ratings are updated annually by crop pathologists and were released in March 2024. Selected varieties of most relevance to South Australian and Victorian growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and tolerance ratings.

Table 6: Lentil disease guide for South Australia and Victoria.

| Variety | Ascochyta blight (Pathotype 2 PBA Hurricane XT ^{db} virulent) | Ascochyta blight (Pathotype 1 Nipper ^{db} virulent) | Botrytis grey mould | RLN resistance (<i>Pratylenchus neglectus</i>) | RLN resistance (<i>Pratylenchus thornei</i>) |
|--------------------------------|--|--|---------------------|--|--|
| ALB Terrier ^{db} | MR (P) | R | MRMS (P) | MR | MR |
| GIA Leader ^{db} | MR (P) | MR (P) | MRMS (P) | MRMS (P) | MR (P) |
| GIA Lightning ^{db} | MRMS (P) | R (P) | MS (P) | MRMS (P) | MR (P) |
| GIA Metro ^{db} | RMR (P) | MR (P) | MRMS (P) | MR (P) | MRMS (P) |
| GIA Sire ^{db} | MRMS (P) | R (P) | MS (P) | MRMS (P) | MRMS (P) |
| GIA Thunder ^{db} | MRMS (P) | R (P) | MRMS (P) | MR (P) | MR (P) |
| Nipper ^{db} | MR | MRMS | MRMS | RMR | MR |
| PBA Ace ^{db} | MR | R | MS | MR | MRMS |
| PBA Bolt ^{db} | MRMS | MR | S | MR | MR |
| PBA Hallmark XT ^{db} | MRMS | RMR | MRMS | MR | MRMS |
| PBA HighlandXT ^{db} | MR (P) | MR | MS | MR | MRMS |
| PBA Hurricane XT ^{db} | MRMS (P) | RMR | MS | MRMS | MRMS |
| PBA Jumbo2 ^{db} | RMR | R | MR (P) | MR | MRMS |
| PBA KelpieXT ^{db} | MRMS | MRMS | MS | MRMS | MRMS |

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

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, (P) = provisional rating.

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LUPIN

LUPIN

New lupin varieties

The following information is for lupin 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 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 ¹ |
|-----------------------|-------------------------------|-------------------------|---|
| Gidgee [Ⓓ] | Australian Grain Technologies | 4.50 | A very high and stable yielding alternative to PBA Jurien [Ⓓ] and Mandelup [Ⓓ] . Widely adapted but particularly well adapted to the northern and central wheatbelt of WA. Metribuzin tolerant. Reduced risk of seed splitting compared with PBA Jurien [Ⓓ] . Moderately resistant to stem Phomopsis. Good CMV resistance. Slightly quicker maturity relative to PBA Jurien [Ⓓ] , slightly slower than Mandelup [Ⓓ] . |
| Rosemont [Ⓓ] | Australian Grain Technologies | 4.50 | A very high yielding alternative to PBA Jurien [Ⓓ] , Coyote [Ⓓ] and Mandelup [Ⓓ] . Best performance in softer-finishing situations and southern WA environments. Unique white flower and faintly speckled seed. Metribuzin tolerant. Excellent early vigour. Reduced risk of seed splitting compared with PBA Jurien [Ⓓ] . Taller plant height, may improve harvestability. Moderately resistant to stem Phomopsis. Good CMV resistance. Slightly slower maturity relative to PBA Jurien [Ⓓ] , slightly quicker than Coyote [Ⓓ] . |

* EPR amount is ex-GST, [Ⓓ] denotes Plant Breeder's Rights apply. ¹ 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

Lupin variety yield performance – Mallee South Australia and Victoria

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: Hopetoun narrow-leaf lupin.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------|---------------|---------------|---------------|--------------|---------------|
| Mean yield (t/ha) | 1.65 | 1.52 | 2.07 | 3.02 | 1.85 |
| PBA Bateman ^{db} | 125 | 114 | 103 | 106 | 120 |
| PBA Gunyidi ^{db} | 120 | 112 | | 106 | 118 |
| Jenabillup ^{db} | 114 | 113 | | 108 | 115 |
| PBA Barlock ^{db} | 110 | 114 | 98 | 110 | 111 |
| Coyote ^{db} | | 104 | 109 | 98 | 113 |
| PBA Jurien ^{db} | 109 | 110 | | 108 | 106 |
| Quillinock | 107 | 109 | 98 | 107 | |
| Lawler ^{db} | | 98 | 107 | 98 | |
| Mandelup ^{db} | 101 | 101 | 102 | 101 | 100 |
| Wonga | 95 | 108 | 83 | 106 | 109 |
| Sowing date | 26 Apr | 24 Apr | 25 May | 5 May | 24 Apr |
| Rainfall J–M (mm) | 27 | 87 | 31 | 43 | 30 |
| Rainfall A–O (mm) | 135 | 225 | 168 | 360 | 161 |

Special thanks to 2023 trial cooperator, Devon Mill.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 2: Lameroo narrow-leaf lupin.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------|---------------|---------------|---------------|---------------|---------------|
| Mean yield (t/ha) | | 2.05 | | 3.83 | 0.93 |
| PBA Jurien ^{db} | | 105 | | 112 | 99 |
| PBA Barlock ^{db} | | 108 | | 107 | 102 |
| PBA Bateman ^{db} | | 107 | | 103 | 120 |
| PBA Gunyidi ^{db} | | 106 | | 101 | 117 |
| Jenabillup ^{db} | Trial failed | 107 | Trial failed | 102 | 110 |
| Rosemont ^{db} | | | | 107 | 105 |
| Coyote ^{db} | | 101 | | 101 | 123 |
| Lawler ^{db} | | 98 | | 103 | 104 |
| Mandelup ^{db} | | 100 | | 103 | 98 |
| Gidgee ^{db} | | | | 105 | 89 |
| Sowing date | 21 May | 28 Apr | 25 May | 12 May | 19 May |
| Rainfall J–M (mm) | 2 | 56 | 52 | 30 | 36 |
| Rainfall A–O (mm) | 166 | 241 | 149 | 302 | 194 |

Special thanks to 2023 trial cooperator, Brad Moyle.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 3: Walpeup narrow-leaf lupin.

| Year | 2019 | 2020 | 2021 | 2022 | 2023 |
|---------------------------|--------------|---------------|---------------|--------------|---------------|
| Mean yield (t/ha) | 0.88 | 1.46 | 1.40 | 3.82 | |
| PBA Barlock ^{db} | 120 | 96 | 93 | 112 | |
| PBA Jurien ^{db} | 111 | 99 | 94 | 111 | |
| Jenabillup ^{db} | 121 | 93 | | 109 | |
| PBA Bateman ^{db} | 123 | 92 | 98 | 108 | |
| Quillinock | 113 | 97 | 96 | 108 | |
| PBA Gunyidi ^{db} | 121 | 92 | 98 | 107 | |
| Wonga | 117 | 93 | 96 | 103 | |
| Mandelup ^{db} | 100 | 101 | 99 | 102 | |
| Rosemont ^{db} | | | | 101 | |
| Coyote ^{db} | | 96 | 104 | 99 | |
| Sowing date | 8 May | 28 Apr | 25 May | 5 May | 27 Apr |
| Rainfall J–M (mm) | 9 | 85 | 54 | 86 | 55 |
| Rainfall A–O (mm) | 118 | 247 | 189 | 444 | 228 |

Special thanks to 2023 trial cooperator, Ross Stone.
Learn more via the [NVT Long Term Yield Reporter](#)

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Lupin variety disease ratings – South Australia and Victoria

The following table contains varietal ratings for the predominant diseases of lupin in South Australia and Victoria. These ratings are updated annually by crop pathologists and were released in March 2024. Selected varieties of most relevance to South Australian and Victorian growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and tolerance ratings.

Table 4: Lupin disease guide for South Australia and Victoria.

| Variety | Anthraxnose resistance | Cucumber mosaic virus (CMV) | Phomopsis pod infection | Phomopsis stem infection | Sclerotinia stem rot |
|--------------------------|------------------------|-----------------------------|-------------------------|--------------------------|----------------------|
| Coromup [Ⓛ] | MR | MR | MS | MR | S (P) |
| Coyote [Ⓛ] | MRMS | MRMS | MRMS | S | S (P) |
| Gidgee [Ⓛ] | RMR | MRMS | S (P) | MR | S (P) |
| Jenabillup [Ⓛ] | MS | MRMS | MR | MS | S (P) |
| Lawler [Ⓛ] | MR | MRMS | MS | MR | S (P) |
| Mandelup [Ⓛ] | MRMS | MRMS | S | MR | S (P) |
| PBA Barlock [Ⓛ] | RMR | MRMS | MR | MR | S (P) |
| PBA Bateman [Ⓛ] | MRMS | MR | MS | RMR | S (P) |
| PBA Gunyidi [Ⓛ] | MRMS | MRMS | MRMS | RMR | S (P) |
| PBA Jurien [Ⓛ] | RMR | MS | MRMS | RMR | S (P) |
| PBA Leeman [Ⓛ] | MRMS | MRMS | MRMS | MR | S (P) |
| Rosemont [Ⓛ] | MRMS | MR | MRMS (P) | MR | S (P) |
| Wonga | MR | 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, (P) = provisional rating.

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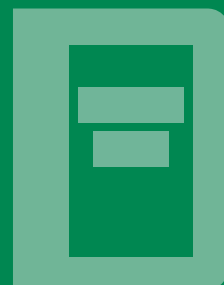
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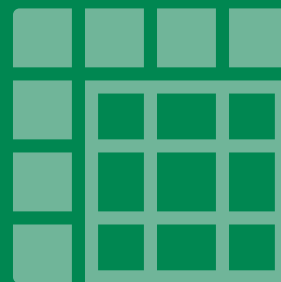
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