

# NVT HARVEST REPORT



REVISED MAY 2024



**Wimmera and Upper South-East South Australia**  
**Southern Region**



**Title:**

NVT Harvest Report – Wimmera and Upper South-East  
South Australia

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**PHOTO:** Trevor Garnett, GRDC

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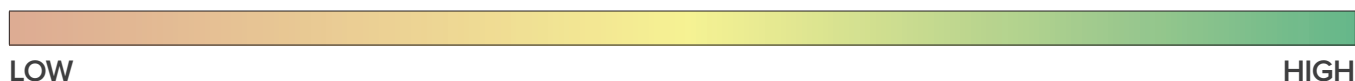
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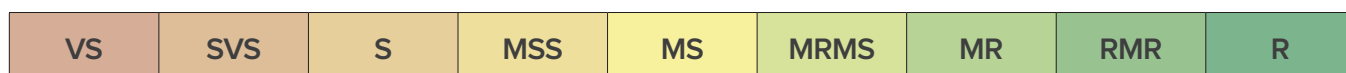
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## LEGEND: MEAN VARIETY YIELD PERFORMANCE



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

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

# INTRODUCTION

*The NVT Harvest Report - Wimmera and Upper South-East South Australia* provides information to support growers and advisers with decisions on variety selection for **Wimmera and Upper South-East South Australia**. The information has been generated from the Grains Research and Development Corporation's (GRDC) National Variety Trials (NVT) database. This publication provides a summary of the 2023 and long-term yield performance of varieties of crop species suitable for production in **Wimmera and Upper South-East South Australia** together with their quality and disease responses.

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

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

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

## Interpreting long-term yield results

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

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

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

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

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

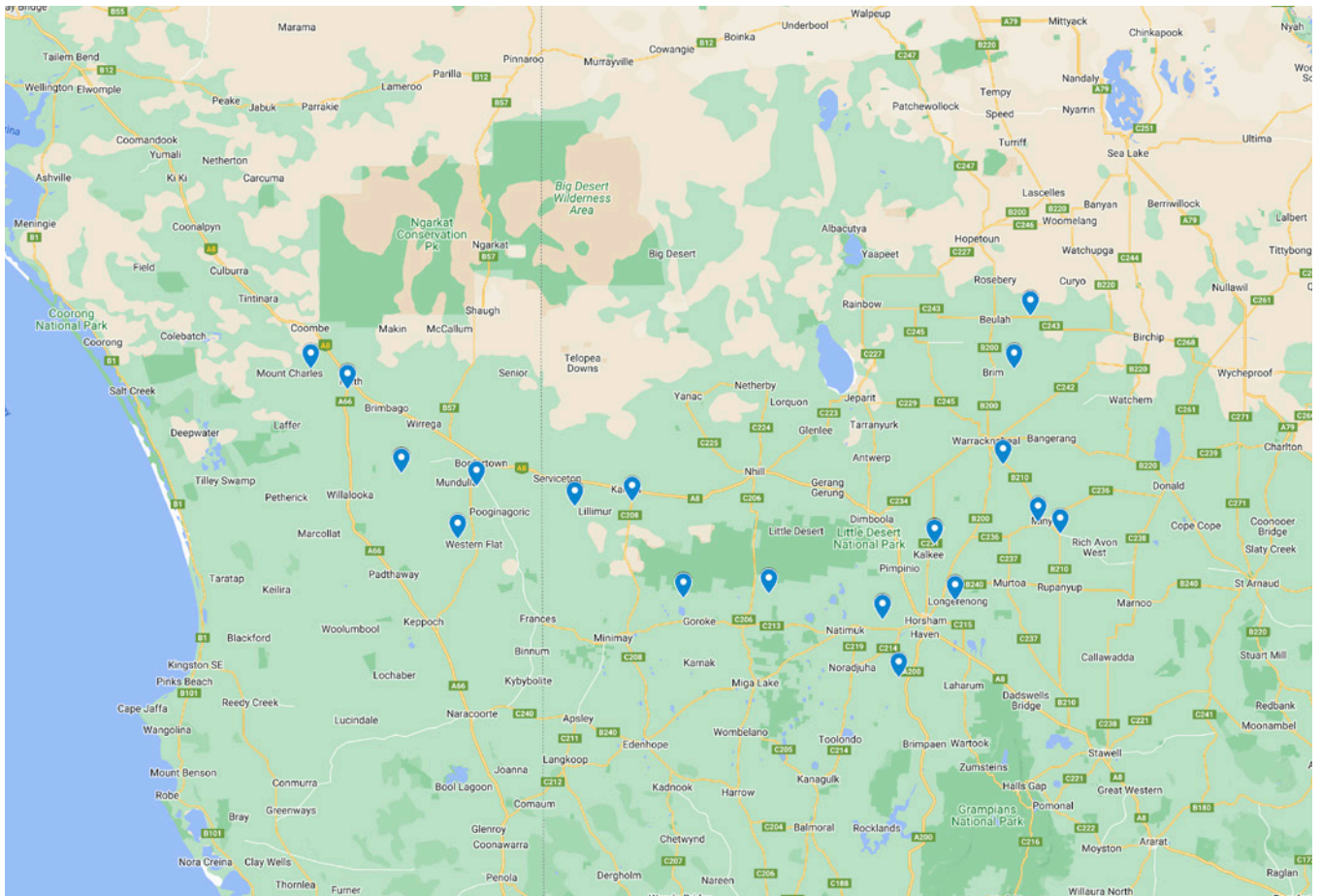
Trials listed as compromised are not suitable for making variety decisions. Results can be found in the [Quarantined trial reports](#).

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

# NVT SITE LOCATIONS – Wimmera and Upper South-East South Australia

Figure 1: Locality of NVT trial sites in Wimmera and Upper South-East South Australia from 2019 to 2023.

SOURCE: NVT Online



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

# WHEAT

## New wheat varieties

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

Variety	Breeding company	Grain classification	End point royalty* (\$)	Comments supplied by breeding company <sup>1</sup>
Dozer <sup>®</sup> CL Plus	InterGrain	TBC	3.90	Dozer <sup>®</sup> CL Plus is a quick-mid maturing APW Clearfield <sup>®</sup> Plus wheat. Dozer <sup>®</sup> 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 <sup>®</sup> CL Plus has strong lodging resistance, moderate early vigour, medium plant height and medium coleoptile length. Dozer <sup>®</sup> CL Plus offers good grain size and test weight. Proactive disease management of stripe rust and CCN in South Australia is recommended with Dozer <sup>®</sup> CL Plus to maximise yield and quality potential.
Genie <sup>®</sup>	InterGrain	AH	3.50	Genie <sup>®</sup> is a mid-slow maturing wheat and is an excellent alternative to RockStar <sup>®</sup> 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 <sup>®</sup> . Genie <sup>®</sup> , with its slightly later maturity than RockStar <sup>®</sup> and long coleoptile, enables earlier sowing opportunities to be maximised. Genie <sup>®</sup> 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 <sup>®</sup> has good sprouting tolerance. Genie <sup>®</sup> 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 <sup>®</sup>	LongReach Plant Breeders	AH	4.00	Mid-slow maturing spring wheat (similar to Beckom <sup>®</sup> and RockStar <sup>®</sup> ) 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 <sup>®</sup> 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 <sup>®</sup>	LongReach Plant Breeders	AH	3.50	Mid-maturity AH wheat that has consistently outperformed Scepter <sup>®</sup> with an improved shorter canopy and better lodging tolerance. Improved powdery mildew (MS) and stripe rust resistance (MS) over Scepter <sup>®</sup> , adding some minor genes for both diseases. AH quality in SA and Victoria and commercialised by Pacific Seeds.
Soaker <sup>®</sup>	LongReach Plant Breeders	APW	3.50	Mid-maturity derived from Scepter <sup>®</sup> 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 <sup>®</sup>	Australian Grain Technologies	APW	4.15	Scepter <sup>®</sup> -type Clearfield <sup>®</sup> variety with increased yield over Scepter <sup>®</sup> . The highest-yielding Clearfield <sup>®</sup> wheat variety in Western Australia, South Australia and Victoria. Tolerant to Clearfield <sup>®</sup> Intervix <sup>®</sup> herbicide. Similar disease resistance profile to Scepter <sup>®</sup> . Similar grain size and test weight as Scepter <sup>®</sup> . Mid-season maturity, similar to Scepter <sup>®</sup> . APW quality classification in SA, Victoria, southern NSW, classification for WA pending.

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

[nvt.grdc.com.au/resources/crop-sowing-guides](http://nvt.grdc.com.au/resources/crop-sowing-guides)

## Wheat variety yield performance – Wimmera and Upper South-East South Australia

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

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

**Table 1: Brim main season wheat.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.78	2.44	1.57	4.79	4.49
Calibre <sup>db</sup>		109	127	100	112
RockStar <sup>db</sup>	111	110	115	106	108
Ballista <sup>db</sup>	111	106	118	104	109
Cutlass <sup>db</sup>	97	109	106	123	99
Sunblade CL Plus <sup>db*</sup>	101	104	111	114	106
Genie <sup>db</sup>					99
Brumby <sup>db</sup>			114	101	111
Sunmaster <sup>db</sup>			103	120	106
Beckom <sup>db</sup>	97	100	108	112	107
LRPB Matador <sup>db</sup>				92	112
LRPB Major <sup>db</sup>				108	100
Tomahawk CL Plus <sup>db*</sup>				91	119
LRPB Scout <sup>db</sup>	103	105	107	112	95
Dozer <sup>db</sup> CL Plus*					106
Boree <sup>db</sup>		104	109	95	107
<b>Sowing date</b>	<b>21 May</b>	<b>8 May</b>	<b>20 May</b>	<b>13 May</b>	<b>24 May</b>
<b>Rainfall J–M (mm)</b>	<b>19</b>	<b>101</b>	<b>33</b>	<b>119</b>	<b>27</b>
<b>Rainfall A–O (mm)</b>	<b>188</b>	<b>252</b>	<b>214</b>	<b>396</b>	<b>226</b>

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

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

Year	2019	2020	2021	2022	2023	
Mean yield (t/ha)	5.29	5.03		4.55	5.40	
RockStar <sup>db</sup>	109	111	Compromised trial	109	112	
Ballista <sup>db</sup>	110	111		104	113	
LRPB Matador <sup>db</sup>				96	115	
Kingston <sup>db</sup>	104	104		106	119	
Vixen <sup>db</sup>	111	106		93	120	
Genie <sup>db</sup>					106	
Calibre <sup>db</sup>		110			97	108
Brumby <sup>db</sup>					103	108
Dozer <sup>db</sup> CL Plus*						113
Tomahawk CL Plus <sup>db*</sup>					92	111
Sunblade CL Plus <sup>db*</sup>	103	110			110	105
Boree <sup>db</sup>		105			99	110
Sunmaster <sup>db</sup>					115	100
Beckom <sup>db</sup>	102	108			108	102
Scepter <sup>db</sup>	109	104			95	107
<b>Sowing date</b>	<b>23 May</b>	<b>15 May</b>		<b>22 May</b>	<b>21 May</b>	<b>22 May</b>
<b>Rainfall J–M (mm)</b>	<b>16</b>	<b>59</b>	<b>46</b>	<b>37</b>	<b>45</b>	
<b>Rainfall A–O (mm)</b>	<b>271</b>	<b>350</b>	<b>323</b>	<b>375</b>	<b>265</b>	

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

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

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	4.74	3.93		6.35	3.29
Calibre <sup>db</sup>		111	Compromised trial	106	121
Ballista <sup>db</sup>	111	113		108	115
Tomahawk CL Plus <sup>db*</sup>				107	120
LRPB Matador <sup>db</sup>				103	116
Vixen <sup>db</sup>	108	111		102	114
Sunblade CL Plus <sup>db*</sup>	100	110		112	106
Dozer <sup>db</sup> CL Plus*					109
Scepter <sup>db</sup>	107	105		103	111
Beckom <sup>db</sup>	96	108		112	105
Boree <sup>db</sup>		105		101	108
Soaker <sup>db</sup>					107
Catapult <sup>db</sup>	110	102		100	106
Sunmaster <sup>db</sup>				116	99
LRPB Scout <sup>db</sup>	101	106		104	102
Cutlass <sup>db</sup>	98	101		110	96
<b>Sowing date</b>	<b>29 May</b>	<b>12 May</b>		<b>23 May</b>	<b>23 May</b>
<b>Rainfall J–M (mm)</b>	<b>35</b>	<b>77</b>	<b>58</b>	<b>111</b>	<b>31</b>
<b>Rainfall A–O (mm)</b>	<b>250</b>	<b>288</b>	<b>256</b>	<b>476</b>	<b>261</b>

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

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

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		5.12		6.17	3.88
RGT Zanzibar		101	Compromised trial	128	90
Ballista <sup>db</sup>		108		109	107
RockStar <sup>db</sup>		108		109	106
Tomahawk CL Plus <sup>db*</sup>				103	116
Sunmaster <sup>db</sup>				117	102
Sunblade CL Plus <sup>db*</sup>		104		113	103
Vixen <sup>db</sup>		110		103	109
Genie <sup>db</sup>					97
Beckom <sup>db</sup>		102		112	104
LRPB Matador <sup>db</sup>				102	110
Calibre <sup>db</sup>		107		103	111
Brumby <sup>db</sup>				105	109
Kingston <sup>db</sup>				106	102
Scepter <sup>db</sup>		104		101	110
Soaker <sup>db</sup>					108
<b>Sowing date</b>	<b>16 May</b>	<b>14 May</b>		<b>22 May</b>	<b>20 May</b>
<b>Rainfall J–M (mm)</b>	<b>21</b>	<b>74</b>	<b>65</b>	<b>67</b>	<b>31</b>
<b>Rainfall A–O (mm)</b>	<b>296</b>	<b>353</b>	<b>320</b>	<b>410</b>	<b>237</b>

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



**Table 5: Minyip early season wheat.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	5.11	3.58		5.73	
Stockade <sup>db</sup>			Compromised trial	137	Trial failed
LRPB Beaufort <sup>db</sup>	110	110		127	
RockStar <sup>db</sup>	110	112		105	
Illabo <sup>db</sup>	98	97		119	
LRPB Nighthawk <sup>db</sup>	96	92		117	
Mowhawk <sup>db</sup>				105	
Cutlass <sup>db</sup>		103		102	
DS Pascal <sup>db</sup>	99	103		104	
Valiant <sup>db</sup> CL Plus*				94	
EGA Wedgetail <sup>db</sup>	90	89		115	
Denison <sup>db</sup>		104		91	
Catapult <sup>db</sup>	105	103		86	
LRPB Bale <sup>db</sup>				99	
EG Titanium	96	101		85	
Longsword <sup>db</sup>	94	88		90	
<b>Sowing date</b>	<b>16 Apr</b>	<b>21 Apr</b>		<b>23 Apr</b>	
<b>Rainfall J–M (mm)</b>	<b>11</b>	<b>133</b>	<b>127</b>	<b>72</b>	<b>30</b>
<b>Rainfall A–O (mm)</b>	<b>255</b>	<b>292</b>	<b>266</b>	<b>470</b>	<b>244</b>

Special thanks to 2023 trial cooperator, Mick Morcom.

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

**Table 6: Kaniva durum wheat.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	4.39	4.61	3.88	5.09	4.96
Patron <sup>db</sup>			117	118	105
Bitalli <sup>db</sup>	105	109	106	106	102
DBA-Aurora <sup>db</sup>	104	111	106	104	102
DBA Mataroi <sup>db</sup>			102	103	102
DBA Spes	101	107	104	102	101
DBA Vittaroi <sup>db</sup>	105	106	99	98	101
DBA-Artemis <sup>db</sup>	96	102	104	103	100
Hyperno <sup>db</sup>	96	100	102	101	100
Westcourt <sup>db</sup>	97	96	101	102	99
Saintly <sup>db</sup>	101	95	94	94	99
<b>Sowing date</b>	<b>23 May</b>	<b>15 May</b>	<b>22 May</b>	<b>21 May</b>	<b>22 May</b>
<b>Rainfall J–M (mm)</b>	<b>16</b>	<b>59</b>	<b>46</b>	<b>37</b>	<b>45</b>
<b>Rainfall A–O (mm)</b>	<b>271</b>	<b>350</b>	<b>323</b>	<b>375</b>	<b>265</b>

Special thanks to 2023 trial cooperator, Alwyn Dyer.

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



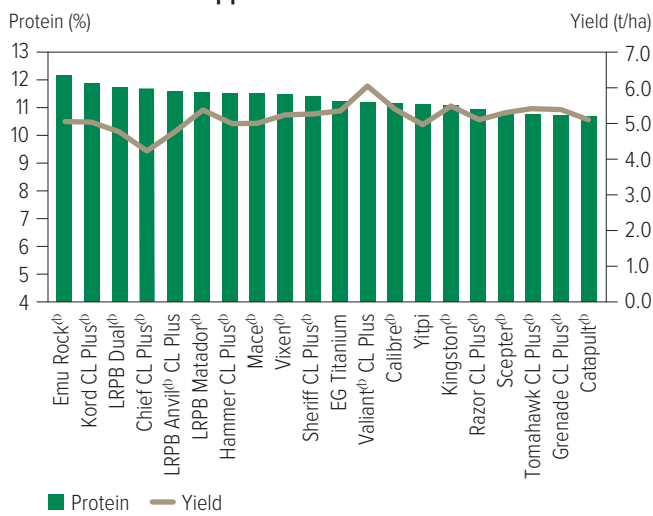
## Wheat variety quality – Wimmera and Upper South-East South Australia

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

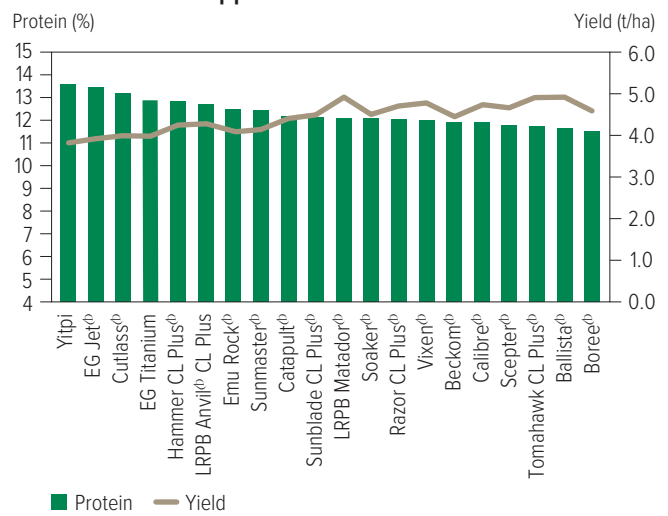
The following figures show the grain quality trends as histograms from 2022 and 2023 NVT averaged for trials in the Wimmera and Upper South-East South Australia region. Only the varieties evaluated at every site are included. These are plotted in order of performance, up to a maximum of 20.

### Protein and yield comparisons

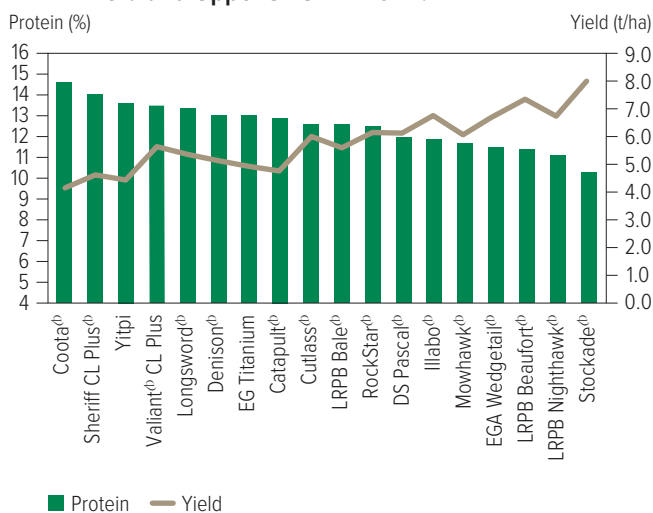
**Figure 1: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from four NVT sites in Wimmera and Upper SE SA in 2022.**



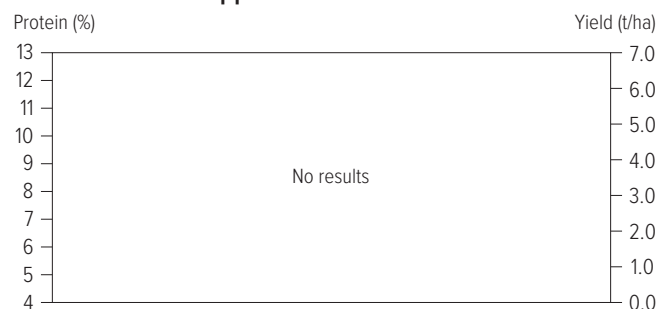
**Figure 2: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from four NVT sites in Wimmera and Upper SE SA in 2023.**



**Figure 3: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from one NVT site in Wimmera and Upper SE SA in 2022.**



**Figure 4: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from NVT sites in Wimmera and Upper SE SA in 2023.**



WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

Figure 5: Protein (%) and yield (t/ha) comparisons for durum wheat varieties from one NVT site in Wimmera and Upper SE SA in 2022.

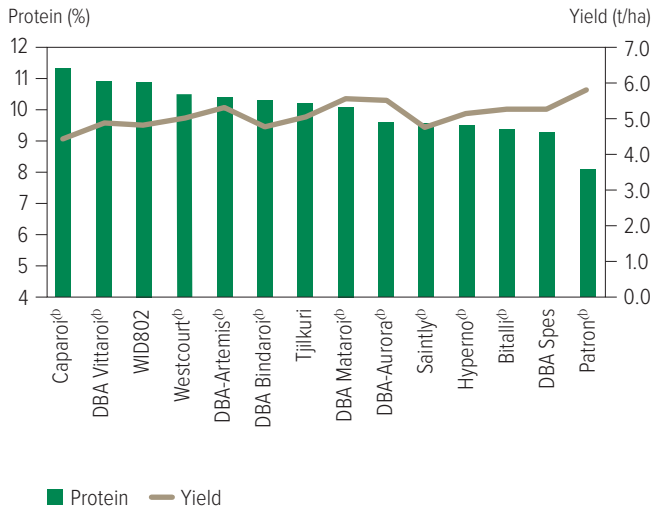
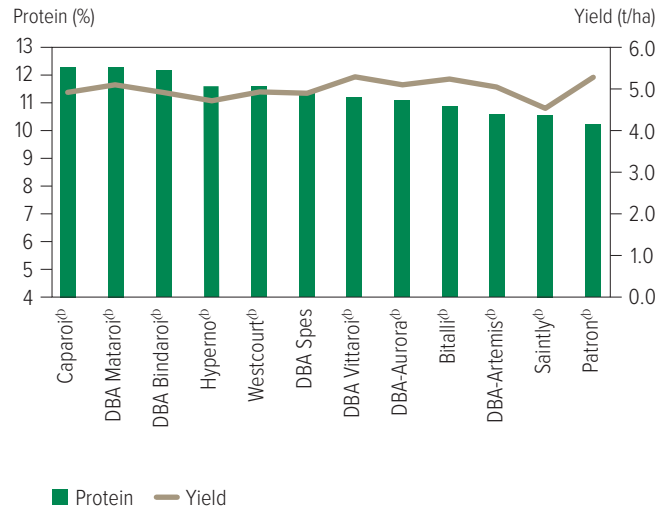


Figure 6: Protein (%) and yield (t/ha) comparisons for durum wheat varieties from one NVT site in Wimmera and Upper SE SA in 2023.



### Test weight comparisons

Figure 7: Test weight (kg/hL) comparisons for main season wheat varieties from four NVT sites in Wimmera and Upper SE SA in 2022.

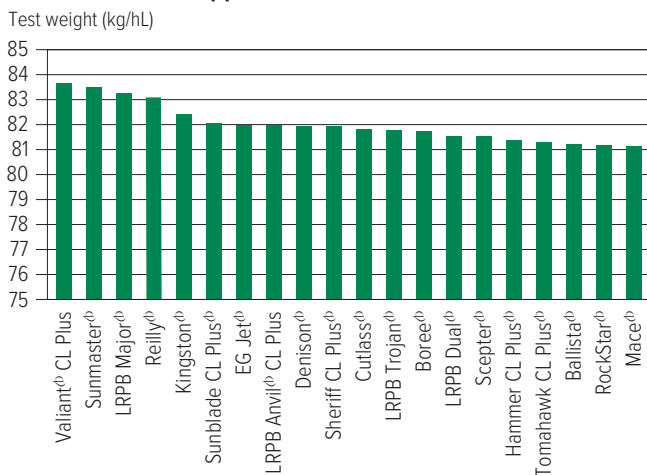


Figure 8: Test weight (kg/hL) comparisons for main season wheat varieties from four NVT sites in Wimmera and Upper SE SA in 2023.

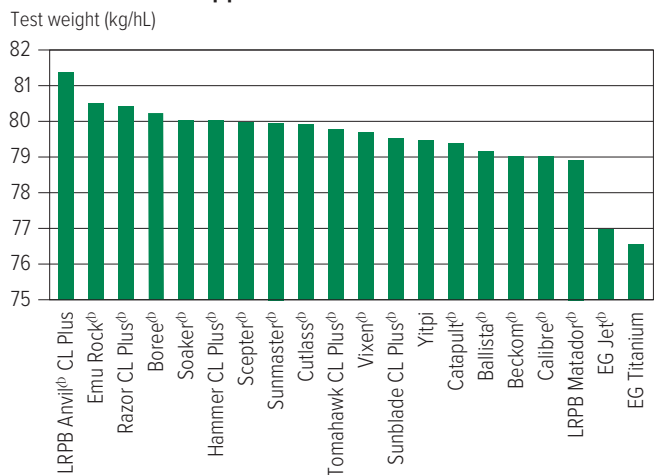


Figure 9: Test weight (kg/hL) comparisons for early season wheat varieties from one NVT site in Wimmera and Upper SE SA in 2022.

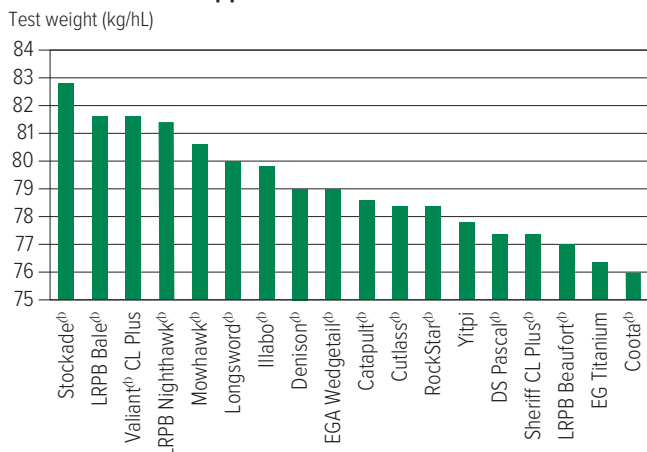
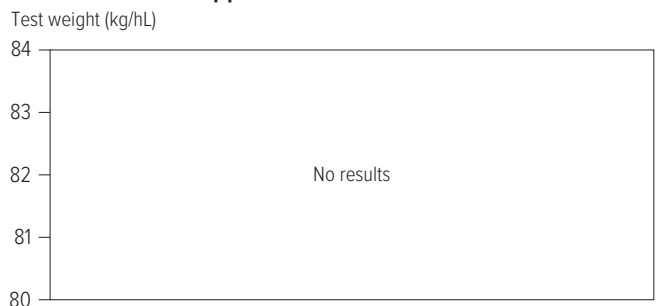


Figure 10: Test weight (kg/hL) comparisons for early season wheat varieties from NVT sites in Wimmera and Upper SE SA in 2023.



WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

Figure 11: Test weight (kg/hL) comparisons for durum wheat varieties from one NVT site in Wimmera and Upper SE SA in 2022.

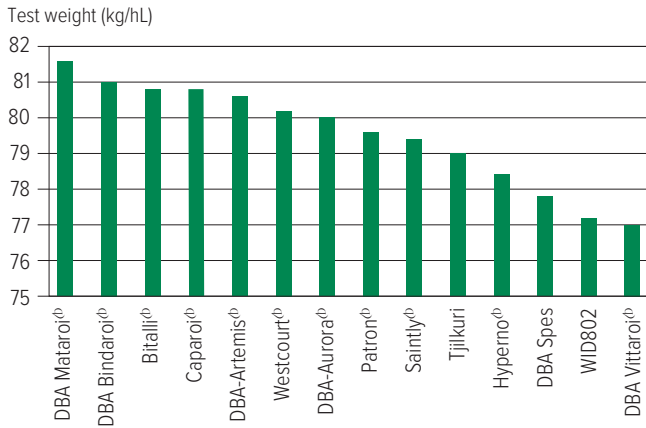
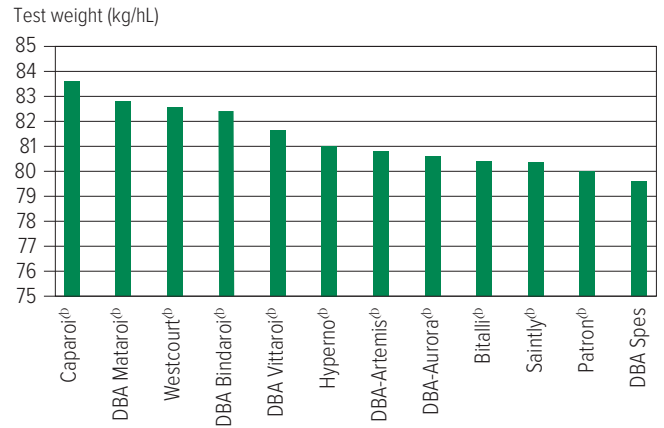


Figure 12: Test weight (kg/hL) comparisons for durum wheat varieties from one NVT site in Wimmera and Upper SE SA in 2023.



### Screenings comparisons

Figure 13: Screenings (<2.0mm) comparisons for main season wheat varieties from four NVT sites in Wimmera and Upper SE SA in 2022.

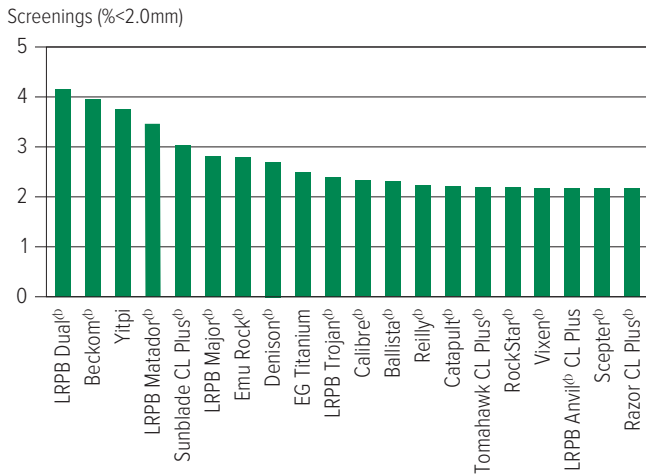


Figure 14: Screenings (<2.0mm) comparisons for main season wheat varieties from four NVT sites in Wimmera and Upper SE SA in 2023.

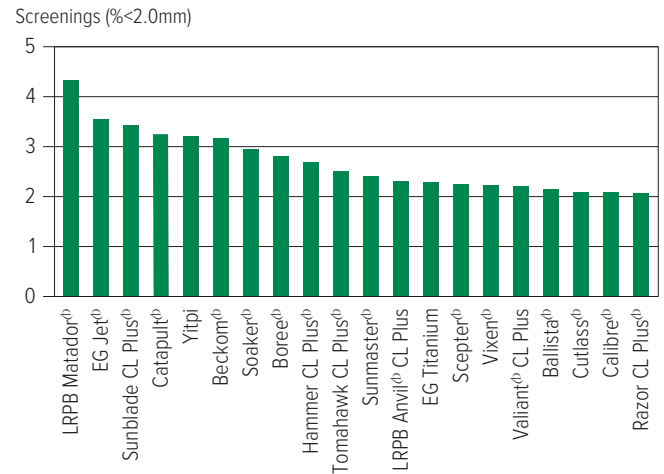


Figure 15: Screenings (<2.0mm) comparisons for early season wheat varieties from one NVT site in Wimmera and Upper SE SA in 2022.

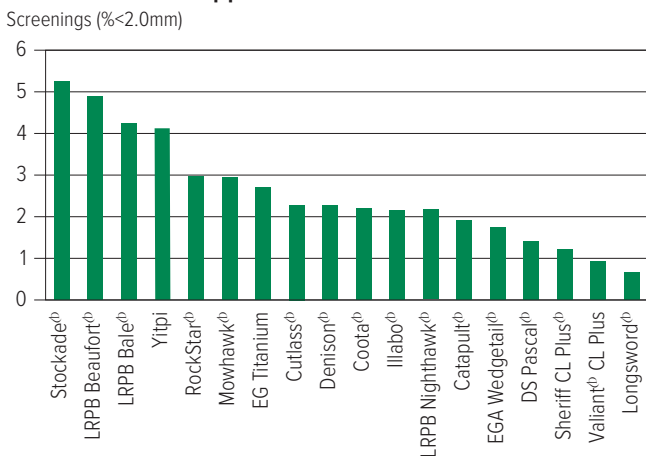
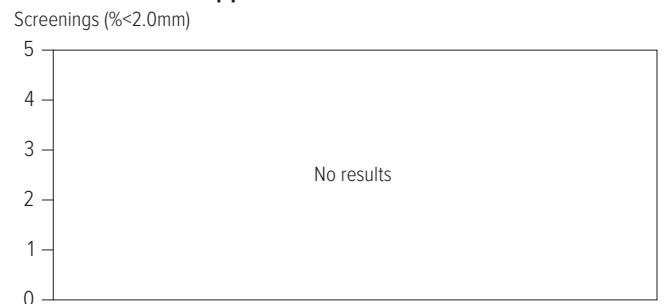


Figure 16: Screenings (<2.0mm) comparisons for early season wheat varieties from NVT sites in Wimmera and Upper SE SA in 2023.



WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

Figure 17: Screenings (<2.0mm) comparisons for durum wheat varieties from one NVT site in Wimmera and Upper SE SA in 2022.

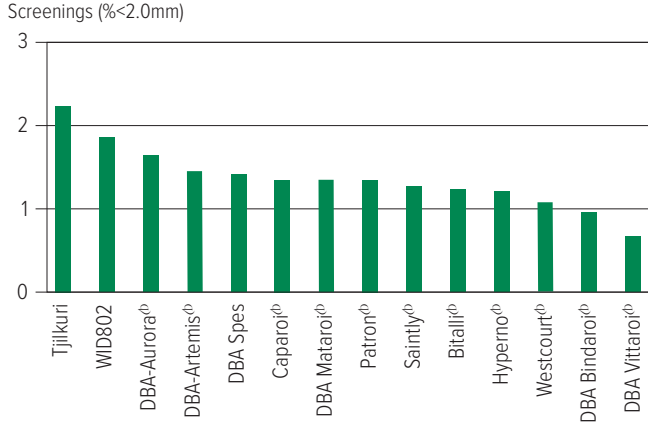
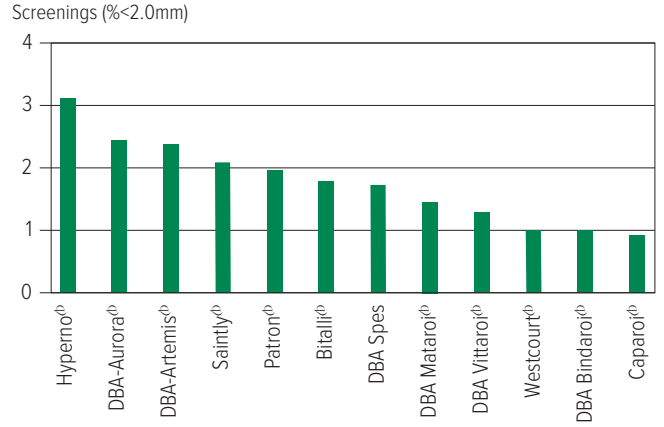


Figure 18: Screenings (<2.0mm) comparisons for durum wheat varieties from one NVT site in Wimmera and Upper SE SA in 2023.



WHEAT

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CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

## 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 7: 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 <sup>Ⓢ</sup>	MRMS	MSS	RMR	S	MRMS	S	S	S	MR	S	S	S
Ballista <sup>Ⓢ</sup>	MR	MSS	S	SVS	MS	SVS	S	MRMS	MRMS	S	S	MS
Beckom <sup>Ⓢ</sup>	MRMS	MRMS	MSS	S	MSS	MSS	S	MSS	R		S	MRMS
BigRed <sup>Ⓢ</sup>	S	RMR	MRMS	MR	MR	RMR	MS	MS	S		MSS	MR
Boree <sup>Ⓢ</sup>	MR	SVS	S	SVS	MRMS	SVS	S	MSS	MSS		S	S
Borlaug 100 <sup>Ⓢ</sup>	MR	SVS	MR	MSS	MRMS	S	S	MS	MS	MSS (P)	MSS	MSS
Brumby <sup>Ⓢ</sup>	MR	MS	SVS	S	MRMS	MR/S	MRMS	MS (P)	MRMS	S	S	MSS
Calibre <sup>Ⓢ</sup>	MR	S	S	S	MRMS	MSS	S	MSS	MRMS	S	S	MSS
Catapult <sup>Ⓢ</sup>	MR	S	S	MSS	MRMS	S	S	MS	R	S	MSS	S
Chief CL Plus <sup>Ⓢ</sup>	MR	SVS	MR	S	MRMS	SVS	MRMS	MSS	MS	MSS	MSS	MS
Coolah <sup>Ⓢ</sup>	MR	MSS	RMR	MSS	MSS	S	S	MS	S		MSS	S
Coota <sup>Ⓢ</sup>	RMR	S	MR	S	MSS	S	MR	MS	MR	S	MSS	MS
Cosmick <sup>Ⓢ</sup>	MS	MSS	SVS	SVS	MRMS	MSS	MSS	MSS	S		S	MRMS
Cutlass <sup>Ⓢ</sup>	R	MSS	RMR	MSS	MSS	MSS	MSS	MSS	MR		S	MS
Denison <sup>Ⓢ</sup>	MS	S	S	MSS	MRMS	S	S	S	MS	S	MSS	MS
Devil <sup>Ⓢ</sup>	S	SVS	SVS	SVS	MRMS	S	MSS	S	MSS	S	MSS	MSS
Dozer <sup>Ⓢ</sup> CL Plus	MS	S	MSS	S (P)	MS	S	MRMS	S	MS (P)	SVS (P)	S	MRMS (P)
DS Bennett <sup>Ⓢ</sup>	MS	S	SVS	MSS	MRMS	R	S	S	S		VS	MSS
DS Pascal <sup>Ⓢ</sup>	MSS	MRMS	MRMS#	MSS	MS	RMR	S	S	S		S	MS
EG Jet <sup>Ⓢ</sup>	S	MRMS	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 <sup>Ⓢ</sup>	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 <sup>Ⓢ</sup>	MS	SVS	SVS	S	MS	MSS	MSS	S	S		MSS	MSS
Genie <sup>Ⓢ</sup>	MS (P)	MRMS (P)	S (P)	S (P)	MRMS (P)	SVS (P)						
Hammer CL Plus <sup>Ⓢ</sup>	MR	MS	S	MSS	MRMS	S	MSS	S	MRMS	S	MSS	MRMS
Hyperno <sup>Ⓢ</sup>	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 <sup>Ⓢ</sup>	MRMS	MRMS	S	MSS	MS	R	MSS	MSS	MRMS	S	S	MRMS
Jillaroo <sup>Ⓢ</sup>	MS	MSS	S	S	MS	SVS	S	MS (P)	MS	S	S	MS
Kingston <sup>Ⓢ</sup>	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 <sup>Ⓢ</sup>	MR	MRMS/MS	MS	MS	MRMS	S	MRMS	MRMS	MRMS	S	MSS	MS
LRPB Anvil <sup>Ⓢ</sup> CL Plus	MR	S	SVS	VS	MSS	SVS	MSS	S	MS	S	MSS	S
LRPB Avenger <sup>Ⓢ</sup>	MS	S	S	S	MS	SVS	MSS	MRMS	MRMS	S	S	MRMS

WHEAT  
BARLEY  
OAT  
CANOLA  
CHICKPEA  
FABA BEAN  
FIELD PEA  
LENTIL  
LUPIN

Continued on next page

Table 7: 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 Bale <sup>Ⓛ</sup>	MRMS	MRMS	MSS	MSS	SVS	MS	S	S	R	S	S	MS
LRPB Beaufort <sup>Ⓛ</sup>	SVS	RMR	MSS	S	MRMS	RMR	MS	MSS	MS		S	MRMS
LRPB Dual <sup>Ⓛ</sup>	MRMS	MS	MSS	MSS	S	S	MSS	MSS	R	S	S	S
LRPB Havoc <sup>Ⓛ</sup>	S	MSS	S	MSS	MRMS	S	S	MSS	S		MSS	MS
LRPB Impala <sup>Ⓛ</sup>	MR	MRMS	SVS	SVS	MSS	R	SVS	S	MSS		MSS	MS
LRPB Kittyhawk <sup>Ⓛ</sup>	MRMS (S)	MR	MR	MRMS	MRMS	MS	S	S	S	S	SVS	MRMS
LRPB Major <sup>Ⓛ</sup>	MRMS	MRMS	MR#	MSS	MS	MS	MSS	MSS	MRMS (P)	S (P)	S	MRMS (P)
LRPB Matador <sup>Ⓛ</sup>	MS	MS	MSS	S (P)	MRMS	MS	S	MRMS	MS (P)	S (P)	S	MRMS (P)
LRPB Nighthawk <sup>Ⓛ</sup>	RMR	MR	MSS	MS	MS	SVS	MSS	MS	MS		MSS	MS
LRPB Oryx <sup>Ⓛ</sup>	MR	MS	RMR#	SVS	MSS	MR	MSS	MSS	S	S	MSS	MS
LRPB Raider <sup>Ⓛ</sup>	RMR	MR	RMR	S	MSS	S	MSS	MS	S		S	MSS
LRPB Scotch <sup>Ⓛ</sup>	MSS	MRMS	MR#	S	MRMS	MR	MS	S	MS	S	S	MS
LRPB Scout <sup>Ⓛ</sup>	MRMS	MS	MS	S	SVS	MRMS	S	MSS	R		S	S
LRPB Trojan <sup>Ⓛ</sup>	MRMS	S	MR#	S	MSS	S	MSS	MSS	MS	MS	MS	MS
Mace <sup>Ⓛ</sup>	MRMS	SVS	S	SVS	MRMS	MSS	MS	MS	MRMS	S	S	MRMS
Manning <sup>Ⓛ</sup>	MR	RMR	MSS	MRMS/S	MRMS	MS	MSS	S	S	MS (P)	VS	S
Naparoo <sup>Ⓛ</sup>	MRMS	MRMS	MS	S	MRMS	R	SVS	S			S	
Razor CL Plus <sup>Ⓛ</sup>	MRMS	MRMS	S	SVS	MSS	MSS	S	MS	MR	S	S	MS
Reilly <sup>Ⓛ</sup>	MRMS	MS	MSS	S	S	MSS	MS	MSS	R	S	S	MSS
RGT Accroc <sup>Ⓛ</sup>	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 <sup>Ⓛ</sup>	RMR	RMR	RMR	MRMS	MR	RMR	MRMS	MSS	MSS (P)		VS	
RGT Waugh <sup>Ⓛ</sup>	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 <sup>Ⓛ</sup>	MRMS	S	S	S	MRMS	SVS	MRMS	MS	MSS	S	S	MSS
Saintly <sup>Ⓛ</sup>	MS	MRMS	RMR	MRMS/S	MRMS	S	MS	RMR	MS		VS (P)	MS
Scepter <sup>Ⓛ</sup>	MRMS	MSS	MSS	S	MRMS	SVS	S	MSS	MRMS	S	MSS	MS
Severn <sup>Ⓛ</sup>	MS	RMR	MRMS	MSS	MRMS	RMR	S	MRMS	MSS (P)		S	MR
Sheriff CL Plus <sup>Ⓛ</sup>	MS	SVS	SVS	S	MRMS	SVS	MRMS	MRMS	MS	S	S	MS
Soaker <sup>Ⓛ</sup>	MR (P)	MS (P)	S (P)	S (P)	MS (P)	S (P)						
SQP Revenue <sup>Ⓛ</sup>	RMR	MR	VS	MSS	MRMS	R	S	S	S	S	S	MS
Sting <sup>Ⓛ</sup>	MRMS	S	SVS	SVS	MRMS	SVS	MS	MS	MS		MSS	S
Stockade <sup>Ⓛ</sup>	MS	MR	MR	MS	MRMS	SVS	S	MSS	MRMS		S	MRMS
Sunblade CL Plus <sup>Ⓛ</sup>	MS	MRMS	MSS	S	MSS	S	MSS	MRMS	MSS		S	MRMS
Sunflex <sup>Ⓛ</sup>	MR	MRMS	RMR#	SVS	MS	S	S	MSS	MS		MSS	MSS
Sunmaster <sup>Ⓛ</sup>	MS	MRMS	RMR	S	MSS	MSS	MRMS	MS	MSS		MSS	MR
Sunprime <sup>Ⓛ</sup>	MS	MS	MR#	S	MSS	MSS	S	S	MS		MSS	MSS
Tomahawk CL Plus <sup>Ⓛ</sup>	MR	MSS	S	S (P)	MRMS	SVS	S	MS	MRMS (P)	S (P)	S	S (P)
Valiant <sup>Ⓛ</sup> CL Plus	MR	S	S	MSS	MRMS	VS	S	S (P)	MSS (P)	MSS	MSS	MS (P)
Vixen <sup>Ⓛ</sup>	MRMS	SVS	SVS	S	MRMS	SVS	MRMS	MS	MSS	S	S	MSS
Willaura <sup>Ⓛ</sup>	MR	S	MRMS	S	MS	SVS	MSS	MRMS	MS		S	MRMS
Yitpi	S	MS	S	S	SVS	MS	MSS	S	MR		S	MS

Continued on next page

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

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Table 7: Wheat disease guide for South Australia (continued).

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

WHEAT

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Table 8: 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 <sup>db</sup>	MRMS	RMR	MSS	MR	S	S	S	S	S	MRMS	S	S
Ballista <sup>db</sup>	MR	S	MSS	MRMS	S	S	S	MRMS	SVS	MS	MS	SVS
Beckom <sup>db</sup>	MRMS	MSS	MRMS	R	S		S	MSS	S	MSS	MRMS	MSS
BigRed <sup>db</sup>	S	MRMS	RMR	S	MSS		MS	MS	MR	MR	MR	RMR
Boree <sup>db</sup>	MR	S	SVS	MSS	S		S	MSS	SVS	MRMS	S	SVS
Brumby <sup>db</sup>	MR	SVS	MS	MRMS	S	S	MRMS	MS (P)	S	MRMS	MSS	MR/S
Calibre <sup>db</sup>	MR	S	S	MRMS	S	S	S	MSS	S	MRMS	MSS	MSS
Catapult <sup>db</sup>	MR	S	S	R	MSS	S	S	MS	MSS	MRMS	S	S
Chief CL Plus <sup>db</sup>	MR	MR	SVS	MS	MSS	MSS	MRMS	MSS	S	MRMS	MS	SVS
Condo <sup>db</sup>	MR	S	MRMS/MS	MR	S		S	MS	S	MS	MS	MR
Coolah <sup>db</sup>	MR	RMR	MSS	S	MSS		S	MS	MSS	MSS	S	S
Coota <sup>db</sup>	RMR	MR	S	MR	MSS	S	MR	MS	S	MSS	MS	S
Cosmick <sup>db</sup>	MS	SVS	MSS	S	S		MSS	MSS	SVS	MRMS	MRMS	MSS
Cutlass <sup>db</sup>	R	RMR	MSS	MR	S		MSS	MSS	MSS	MSS	MS	MSS
Denison <sup>db</sup>	MS	S	S	MS	MSS	S	S	S	MSS	MRMS	MS	S
Dozer <sup>db</sup> CL Plus	MS	MSS	S	MS (P)	S	SVS (P)	MRMS	S	S (P)	MS	MRMS (P)	S
DS Bennett <sup>db</sup>	MS	SVS	S	S	VS		S	S	MSS	MRMS	MSS	R
DS Faraday <sup>db</sup>	RMR	RMR	MRMS	MS	MSS		S	MSS	MSS	MSS	MSS	
DS Pascal <sup>db</sup>	MSS	MRMS#	MRMS	S	S		S	S	MSS	MS	MS	RMR
DS Tull <sup>db</sup>	MR	MSS	MS	MSS	S		MSS	MSS	SVS	S	MRMS	
EG Jet <sup>db</sup>	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 <sup>db</sup>	MR	MR	MS	S	S		S	MSS	MSS	S	MSS	RMR
EGA Wedgetail <sup>db</sup>	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 <sup>db</sup>	MS	SVS	SVS	S	MSS		MSS	S	S	MS	MSS	MSS
Genie <sup>db</sup>	MS (P)	S (P)	MRMS (P)						S (P)	MRMS (P)		SVS (P)
Hammer CL Plus <sup>db</sup>	MR	S	MS	MRMS	MSS	S	MSS	S	MSS	MRMS	MRMS	S
Hyperno <sup>db</sup>	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 <sup>db</sup>	MRMS	S	MRMS	MRMS	S	S	MSS	MSS	MSS	MS	MRMS	R
Jillaroo <sup>db</sup>	MS	S	MSS	MS	S	S	S	MS (P)	S	MS	MS	SVS
Kingston <sup>db</sup>	S	S	MSS	R	S	S	S	MRMS	S	MSS	MSS	S
Leverage <sup>db</sup>	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 <sup>db</sup>	MR	MS	MRMS/MS	MRMS	MSS	S	MRMS	MRMS	MS	MRMS	MS	S
LRPB Anvil <sup>db</sup> CL Plus	MR	SVS	S	MS	MSS	S	MSS	S	VS	MSS	S	SVS
LRPB Avenger <sup>db</sup>	MS	S	S	MRMS	S	S	MSS	MRMS	S	MS	MRMS	SVS
LRPB Bale <sup>db</sup>	MRMS	MSS	MRMS	R	S	S	S	S	MSS	SVS	MS	MS
LRPB Beaufort <sup>db</sup>	SVS	MSS	RMR	MS	S		MS	MSS	S	MRMS	MRMS	RMR
LRPB Dual <sup>db</sup>	MRMS	MSS	MS	R	S	S	MSS	MSS	MSS	S	S	S
LRPB Havoc <sup>db</sup>	S	S	MSS	S	MSS		S	MSS	MSS	MRMS	MS	S
LRPB Hellfire <sup>db</sup>	MR	MSS	MR	MS	MSS		MSS	MSS	S	MSS	S	S

WHEAT  
BARLEY  
OAT  
CANOLA  
CHICKPEA  
FABA BEAN  
FIELD PEA  
LENTIL  
LUPIN

Continued on next page



Table 8: 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 <sup>db</sup>	MR	SVS	MRMS	MSS	MSS		SVS	S	SVS	MSS	MS	R
LRPB Kittyhawk <sup>db</sup>	MRMS (S)	MR	MR	S	SVS	S	S	S	MRMS	MRMS	MRMS	MS
LRPB Lancer <sup>db</sup>	R	RMR	RMR	S	MSS		S	MS	MS	MS	MRMS	R
LRPB Major <sup>db</sup>	MRMS	MR#	MRMS	MRMS (P)	S	S (P)	MSS	MSS	MSS	MS	MRMS (P)	MS
LRPB Matador <sup>db</sup>	MS	MSS	MS	MS (P)	S	S (P)	S	MRMS	S (P)	MRMS	MRMS (P)	MS
LRPB Mustang <sup>db</sup>	MRMS	MSS	MR	MR	MSS		S	MSS	S	MSS	MS	MSS
LRPB Nighthawk <sup>db</sup>	RMR	MSS	MR	MS	MSS		MSS	MS	MS	MS	MS	SVS
LRPB Oryx <sup>db</sup>	MR	RMR#	MS	S	MSS	S	MSS	MSS	SVS	MSS	MS	MR
LRPB Parakeet <sup>db</sup>	MR	R	MR	MS	MSS	S	MRMS	S	SVS	MSS	MS	SVS
LRPB Raider <sup>db</sup>	RMR	RMR	MR	S	S		MSS	MS	S	MSS	MSS	S
LRPB Scotch <sup>db</sup>	MSS	MR#	MRMS	MS	S	S	MS	S	S	MRMS	MS	MR
LRPB Scout <sup>db</sup>	MRMS	MS	MS	R	S		S	MSS	S	SVS	S	MRMS
LRPB Stealth <sup>db</sup>	R	RMR#	RMR	S	MSS		MSS	S	MSS	MS	MRMS	MS
LRPB Trojan <sup>db</sup>	MRMS	MR#	S	MS	MS	MS	MSS	MSS	S	MSS	MS	S
Mace <sup>db</sup>	MRMS	S	SVS	MRMS	S	S	MS	MS	SVS	MRMS	MRMS	MSS
Manning <sup>db</sup>	MR	MSS	RMR	S	VS	MS (P)	MSS	S	MRMS/S	MRMS	S	MS
Razor CL Plus <sup>db</sup>	MRMS	S	MRMS	MR	S	S	S	MS	SVS	MSS	MS	MSS
Reilly <sup>db</sup>	MRMS	MSS	MS	R	S	S	MS	MSS	S	S	MSS	MSS
RGT Accroc <sup>db</sup>	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 <sup>db</sup>	RMR	RMR	RMR	MSS (P)	VS		MRMS	MSS	MRMS	MR		RMR
RGT Waugh <sup>db</sup>	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 <sup>db</sup>	MRMS	S	S	MSS	S	S	MRMS	MS	S	MRMS	MSS	SVS
Saintly <sup>db</sup>	MS	RMR	MRMS	S	VS (P)		MS	RMR	MRMS/S	MRMS	MS	S
Scepter <sup>db</sup>	MRMS	MSS	MSS	MRMS	MSS	S	S	MSS	S	MRMS	MS	SVS
Severn <sup>db</sup>	MS	MRMS	RMR	MSS (P)	S		S	MRMS	MSS	MRMS	MR	RMR
Sheriff CL Plus <sup>db</sup>	MS	SVS	SVS	MS	S	S	MRMS	MRMS	S	MRMS	MS	SVS
Soaker <sup>db</sup>	MR (P)	S (P)	MS (P)						S (P)	MS (P)		S (P)
SQP Revenue <sup>db</sup>	RMR	VS	MR	S	S	S	S	S	MSS	MRMS	MS	R
Sting <sup>db</sup>	MRMS	SVS	S	MS	MSS		MS	MS	SVS	MRMS	S	SVS
Stockade <sup>db</sup>	MS	MR	MR	MRMS	S		S	MSS	MS	MRMS	MRMS	SVS
Sunblade CL Plus <sup>db</sup>	MS	MSS	MRMS	MSS	S		MSS	MRMS	S	MSS	MRMS	S
Suncentral <sup>db</sup>	MRMS	RMR		S	MSS		MRMS	MRMS	S	MSS	MRMS	SVS
Sundancer <sup>db</sup>	MR	RMR	MR	MS (P)	MSS		MSS	MS	MSS	MS	MSS (P)	S
Sunflex <sup>db</sup>	MR	RMR#	MRMS	MS	MSS		S	MSS	SVS	MS	MSS	S
Sunmaster <sup>db</sup>	MS	RMR	MRMS	MSS	MSS		MRMS	MS	S	MSS	MR	MSS
Sunprime <sup>db</sup>	MS	MR#	MS	MS	MSS		S	S	S	MSS	MSS	
Suntop <sup>db</sup>	MRMS	MR	MRMS	S	MSS		S	MRMS	MSS	MSS	MSS	S
Tomahawk CL Plus <sup>db</sup>	MR	S	MSS	MRMS (P)	S	S (P)	S	MS	S (P)	MRMS	S (P)	SVS
Valiant <sup>db</sup> CL Plus	MR	S	S	MSS (P)	MSS	MSS	S	S (P)	MSS	MRMS	MS (P)	VS
Vixen <sup>db</sup>	MRMS	SVS	SVS	MSS	S	S	MRMS	MS	S	MRMS	MSS	SVS
Willaura <sup>db</sup>	MR	MRMS	S	MS	S		MSS	MRMS	S	MS	MRMS	SVS
Yitpi	S	S	MS	MR	S		MSS	S	S	SVS	MS	MS

WHEAT  
BARLEY  
OAT  
CANOLA  
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FIELD PEA  
LENTIL  
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Continued on next page

Table 8: 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
<b>DURUM</b>												
Caparoi <sup>db</sup>	MR	RMR	MS	MRMS (P)	VS		MS	MR	MRMS/S	MR	MSS	S
DBA Bindaroi <sup>db</sup>	MR	MR	MS	MS	SVS		MRMS	MR	MS	MS	MRMS	MSS
DBA Lillaroi <sup>db</sup>	RMR	RMR	MS	S	SVS		MRMS	RMR	S	MRMS	MS	MS
DBA Mataroi <sup>db</sup>	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 <sup>db</sup>	MR	RMR	MS	S	SVS		MS	MR	MSS	MRMS	MSS	MS
DBA-Artemis <sup>db</sup>	MR	RMR	MRMS	MS	SVS		MS	MR	MRMS/S	MRMS	MS	SVS
DBA-Aurora <sup>db</sup>	RMR	RMR	MRMS	MSS	SVS		MRMS	RMR	MRMS/S	MRMS	MS	MSS
Jandaroi <sup>db</sup>	MRMS	MR	MRMS	MS	VS		MS	MRMS	MSS	MRMS	MS	MS
Patron <sup>db</sup>	RMR	MR#	MRMS	S	SVS		MRMS	MR	MRMS	MRMS	MSS	MSS
Westcourt <sup>db</sup>	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.

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

# BARLEY

## New barley varieties

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

Variety	Breeding company	Grain classification	End point royalty* (\$)	Comments supplied by breeding company <sup>1</sup>
Neo <sup>®</sup> CL	InterGrain	Under malt evaluation	4.25	Neo <sup>®</sup> CL is a mid-maturing, imidazolinone-tolerant spring barley, ideally suited to medium-high rainfall environments. Neo <sup>®</sup> 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 <sup>®</sup> 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 <sup>®</sup> CL has been accepted into Grains Australia's malting accreditation program with earliest potential final accreditation in March 2025.
Spinnaker <sup>®</sup>	Secobra Recherches		TBC	Released under code name SCA21-Y003.

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

WHEAT

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

## Barley variety yield performance – Wimmera and Upper South-East South Australia

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

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

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

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	3.75	3.05	1.39	6.47	4.81
Combat <sup>db</sup>			110	107	117
Neo <sup>db</sup> CL*					112
Cyclops <sup>db</sup>		107	108	106	112
Minotaur <sup>db</sup>		105	108	108	108
Leabrook <sup>db</sup>	114	107	112	97	107
Rosalind <sup>db</sup>	109	101	103	106	105
Spinnaker <sup>db</sup>			103	108	106
Titan AX <sup>db*</sup>				96	108
Beast <sup>db</sup>	116	105	109	97	105
Yeti <sup>db</sup>	107	103	108	103	103
Laperouse <sup>db</sup>	104	104	106	102	104
Fathom <sup>db</sup>	112	102	101	97	104
RGT Planet <sup>db</sup>	97	99	101	108	102
Compass <sup>db</sup>	113	105	109	93	103
Maximus <sup>db</sup> CL*	107	99	99	102	101
<b>Sowing date</b>	<b>21 May</b>	<b>8 May</b>	<b>20 May</b>	<b>13 May</b>	<b>23 May</b>
<b>Rainfall J–M (mm)</b>	<b>19</b>	<b>101</b>	<b>33</b>	<b>119</b>	<b>27</b>
<b>Rainfall A–O (mm)</b>	<b>188</b>	<b>252</b>	<b>214</b>	<b>396</b>	<b>226</b>

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

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

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	6.77	5.45		8.01	3.57
Neo <sup>db</sup> CL*			Compromised trial		106
Combat <sup>db</sup>				112	120
Spinnaker <sup>db</sup>				119	98
RGT Planet <sup>db</sup>	114	105		120	92
Fandaga <sup>db</sup>				117	96
Zena <sup>db</sup> CL*				117	90
Minotaur <sup>db</sup>		104		107	109
Cyclops <sup>db</sup>		104		100	117
Rosalind <sup>db</sup>	104	100		108	102
Bottler <sup>db</sup>	104	102		109	90
Leabrook <sup>db</sup>	92	105		99	115
Titan AX <sup>db*</sup>				94	119
Kiwi	100	98		103	86
Buff <sup>db</sup>	99	100		94	105
Alestar <sup>db</sup>	102	97	101	85	
<b>Sowing date</b>	<b>29 May</b>	<b>11 May</b>	<b>23 May</b>	<b>23 May</b>	<b>30 Jun</b>
<b>Rainfall J–M (mm)</b>	<b>35</b>	<b>77</b>	<b>58</b>	<b>111</b>	<b>31</b>
<b>Rainfall A–O (mm)</b>	<b>250</b>	<b>288</b>	<b>256</b>	<b>476</b>	<b>261</b>

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

**Table 3: Kaniva main season barley.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	6.41	5.81		5.10	
Combat <sup>db</sup>			Compromised trial	108	No trial
Fandaga <sup>db</sup>				113	
Spinnaker <sup>db</sup>				112	
RGT Planet <sup>db</sup>	110	109		113	
Minotaur <sup>db</sup>		108		112	
Zena <sup>db</sup> CL*				110	
Cyclops <sup>db</sup>		106		105	
Rosalind <sup>db</sup>	106	100		106	
Bottler <sup>db</sup>	100	103		107	
Laperouse <sup>db</sup>	98	99		102	
Titan AX <sup>db*</sup>				97	
Leabrook <sup>db</sup>	98	101		99	
Kiwi	96	99		101	
Yeti <sup>db</sup>	96	96		103	
Alestar <sup>db</sup>	97	98	99		
<b>Sowing date</b>	<b>23 May</b>	<b>15 May</b>	<b>22 May</b>	<b>21 May</b>	
<b>Rainfall J–M (mm)</b>	<b>16</b>	<b>59</b>	<b>46</b>	<b>37</b>	
<b>Rainfall A–O (mm)</b>	<b>271</b>	<b>350</b>	<b>323</b>	<b>375</b>	

No 2023 trial cooperator.  
 \* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

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

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	5.04	6.45		6.09	4.87
Neo <sup>db</sup> CL*			Compromised trial		105
Combat <sup>db</sup>				106	113
Rosalind <sup>db</sup>	116	106		106	108
Cyclops <sup>db</sup>		105		100	115
Minotaur <sup>db</sup>		106		108	108
Spinnaker <sup>db</sup>				114	99
RGT Planet <sup>db</sup>	99	111		116	93
Yeti <sup>db</sup>	117	97		98	113
Leabrook <sup>db</sup>	112	100		97	111
Beast <sup>db</sup>	116	98		93	114
Zena <sup>db</sup> CL*				114	93
Maximus <sup>db</sup> CL*	117	95		93	113
Fandaga <sup>db</sup>				114	92
Laperouse <sup>db</sup>	110	97		95	111
Fathom <sup>db</sup>	109	99	93	108	
<b>Sowing date</b>	<b>17 May</b>	<b>13 May</b>	<b>22 May</b>	<b>20 May</b>	<b>27 May</b>
<b>Rainfall J–M (mm)</b>	<b>21</b>	<b>74</b>	<b>65</b>	<b>67</b>	<b>31</b>
<b>Rainfall A–O (mm)</b>	<b>296</b>	<b>353</b>	<b>320</b>	<b>410</b>	<b>237</b>

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

WHEAT  
 BARLEY  
 OAT  
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 CHICKPEA  
 FABABEAN  
 FIELDPEA  
 LENTIL  
 LUPIN

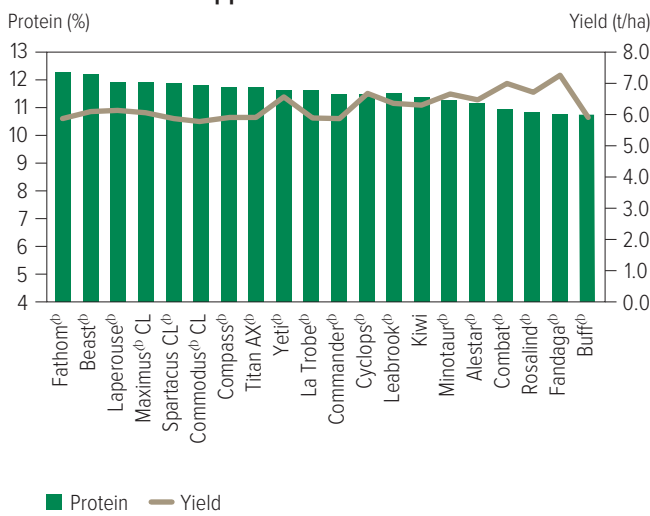
## Barley variety quality – Wimmera and Upper South-East South Australia

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

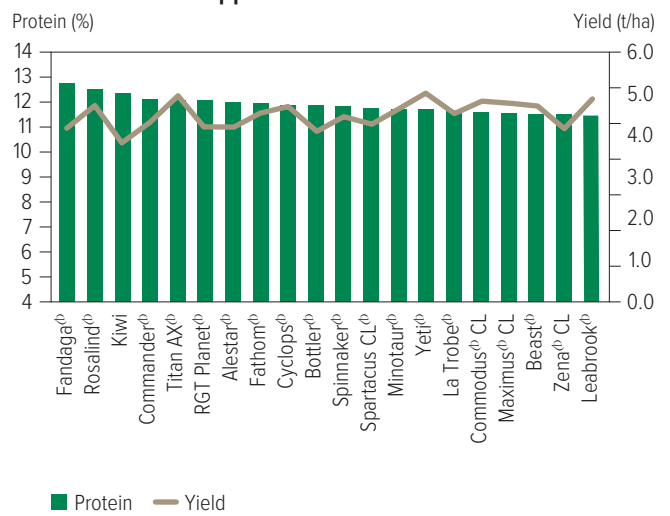
The following figures show the grain quality trends as histograms from 2022 and 2023 NVT averaged for trials in the Wimmera and Upper South-East South Australia region. Only the varieties evaluated at every site are included. These are plotted in order of performance, up to a maximum of 20.

### Protein and yield comparisons

**Figure 1: Protein (%) and yield (t/ha) comparisons for main season barley varieties from four NVT sites in Wimmera and Upper SE SA in 2022.**

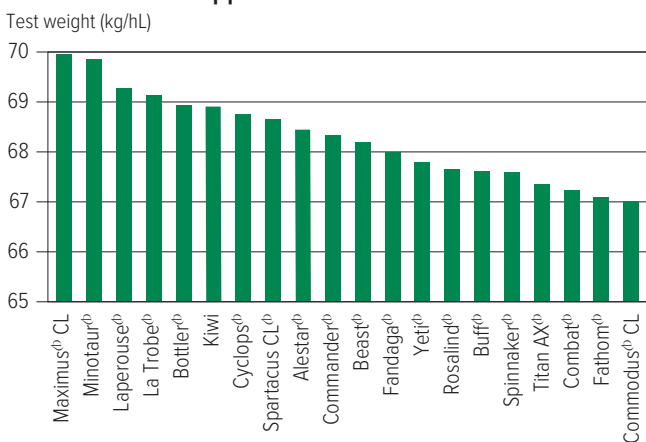


**Figure 2: Protein (%) and yield (t/ha) comparisons for main season barley varieties from three NVT sites in Wimmera and Upper SE SA in 2023.**

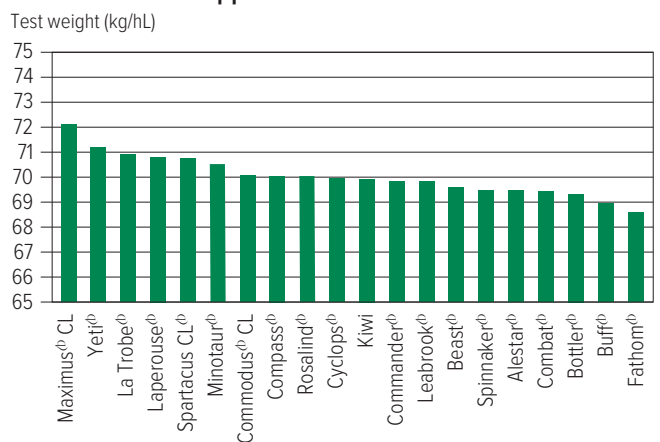


### Test weight comparisons

**Figure 3: Test weight (kg/hL) comparisons for main season barley varieties from four NVT sites in Wimmera and Upper SE SA in 2022.**



**Figure 4: Test weight (kg/hL) comparisons for main season barley varieties from three NVT sites in Wimmera and Upper SE SA in 2023.**



WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

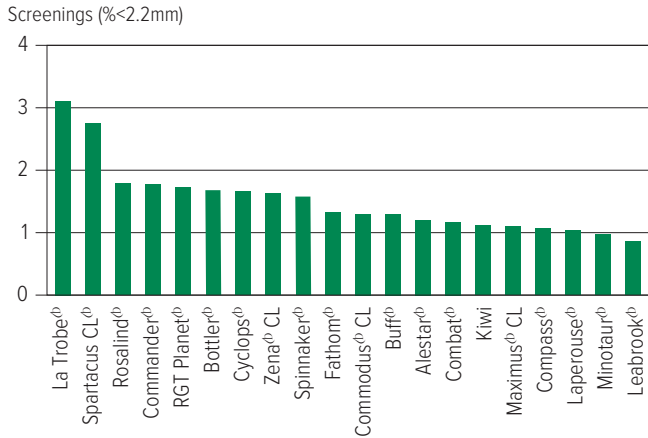
FIELD PEA

LENTIL

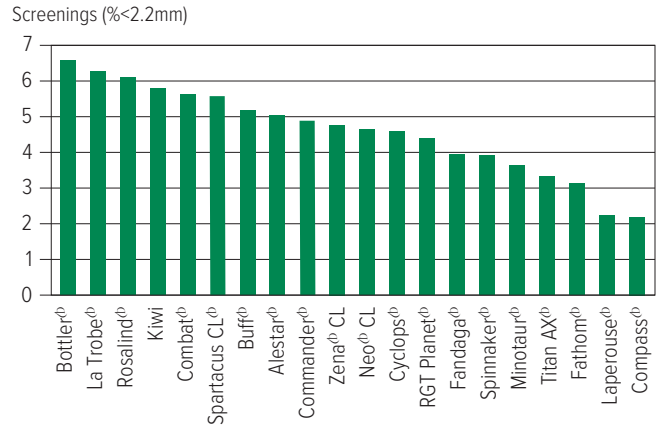
LUPIN

## Screenings comparisons

**Figure 5: Screenings (<2.2mm) comparisons for main season barley varieties from four NVT sites in Wimmera and Upper SE SA in 2022.**

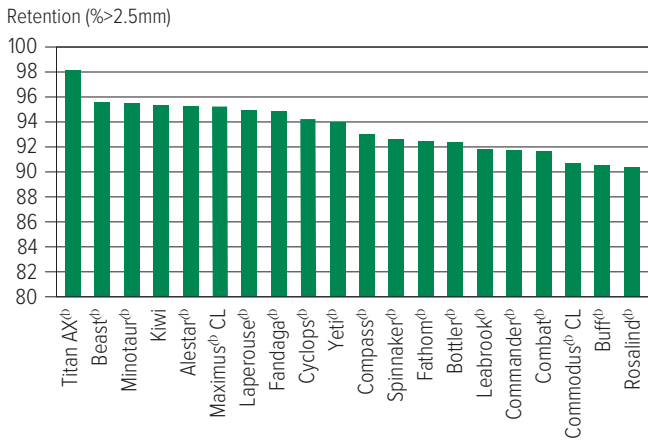


**Figure 6: Screenings (<2.2mm) comparisons for main season barley varieties from three NVT sites in Wimmera and Upper SE SA in 2023.**

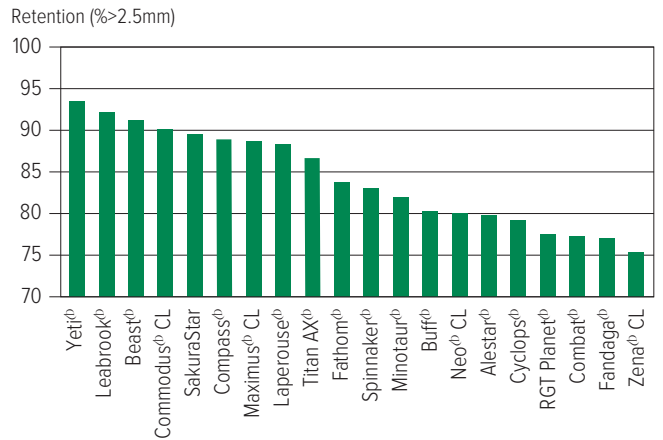


## Retention comparisons

**Figure 7: Retention (>2.5mm) comparisons for main season barley varieties from four NVT sites in Wimmera and Upper SE SA in 2022.**



**Figure 8: Retention (>2.5mm) comparisons for main season barley varieties from three NVT sites in Wimmera and Upper SE SA in 2023.**



WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

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LUPIN

## 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 5: 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 <sup>db</sup>	MSS	MRMS-S	S	SVS	SVS	MR	MR	R <sup>^</sup> (P)	S	MRMS	MR
Banks <sup>db</sup>	MRMS	MR	S	MS-SVS	VS	MS	MR	S	MSS	MS	MS
Bass <sup>db</sup>	S	MS-SVS	MSS	MSS	VS	MS	MRMS	S	MSS	MRMS	S
Beast <sup>db</sup>	MS	MRMS-S	MS	SVS	SVS	MRMS	MRMS	MR	S	MSS	S
Bottler <sup>db</sup>	MSS	R-MS	MSS	SVS	SVS	MS	RMR		SVS	MRMS	RMR
Buff <sup>db</sup>	SVS	MR-MS	MSS	MS-VS	SVS	MRMS	MS		S	MS	S
Combat <sup>db</sup>	SVS	MRMS-S	RMR	MS-S	SVS	MRMS	MS	MR	S	MSS	MS
Commander <sup>db</sup>	MSS	S-VS	MSS	SVS	SVS	MRMS	MRMS	R	S	MSS	MSS
Commodus <sup>db</sup> CL	S	MRMS-MSS	MSS	MSS-SVS	SVS	MRMS	MRMS	R	S	MS	MSS
Compass <sup>db</sup>	S	MRMS-S	MS	MSS-SVS	SVS	MRMS	MR	R	MSS	MSS	S
Cyclops <sup>db</sup>	S	MR-MS	MSS	S	SVS	MRMS	MRMS	S	MSS	MSS	SVS
Fairview <sup>db</sup>	S	SVS	S	SVS	SVS	MR	MR		MSS	MS	R
Fandaga <sup>db</sup>	MSS	MRMS#	S	SVS	VS	MR	MR	R	MSS	MRMS	R
Fathom <sup>db</sup>	MSS	MSS-SVS	RMR	R-S	SVS	MRMS	MR	R	SVS	MSS	MRMS
Flinders <sup>db</sup>	S	MSS	S	MSS-SVS	SVS	MRMS	MR	S	MSS	MRMS	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 <sup>db</sup>	S	MS-S	S	R-SVS	SVS	MRMS	MRMS	R	S	MSS	MSS
Laperouse <sup>db</sup>	S	MRMS	MRMS	SVS	VS	MRMS	MR	S	S	MSS	MSS
Leabrook <sup>db</sup>	S	MR-MSS	MS	MRMS-SVS	VS	MRMS	RMR	RMR	S	MS	S
Litmus <sup>db</sup>	S	S-VS	S	VS	VS	MS	MRMS	MS	S	MS	MS
Maximus <sup>db</sup> CL	S	MR-MS	MS	R-SVS	VS	MRMS	MRMS	R	S	MSS	S
Minotaur <sup>db</sup>	SVS	MR-MS	S	VS	SVS	MRMS	MRMS	R	MSS	MRMS	S
Neo <sup>db</sup> CL	MSS (P)	MS (P)	MR (P)	S (P)	SVS (P)	RMR (P)	MR (P)	R		MRMS (P)	RMR (P)
RGT Planet <sup>db</sup>	S	MRMS-SVS	SVS	R-SVS	SVS	MRMS	MR	R (P)	MSS	MRMS	RMR
Rosalind <sup>db</sup>	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 <sup>db</sup>	S	R-MR	MSS	MRMS-SVS	SVS	MRMS	MRMS	S	S	MS	MRMS
Spartacus CL <sup>db</sup>	MSS	MS-VS	S	R-SVS	VS	MRMS	MRMS	R	S	MSS	MSS
Spinnaker <sup>db</sup>	S	SVS	SVS	S	VS	MR	MS	S	S	MRMS	RMR
Titan AX <sup>db</sup>	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 <sup>db</sup>	MS	MRMS	S	R-S	SVS	MRMS	MS		MSS	MRMS	RMR
Yeti <sup>db</sup>	SVS	MR-MS	MS	VS	VS	MR	MR	RMR	S	MSS	S
Zena <sup>db</sup> CL	S	MR-S	S	R-S	VS	MRMS	MR	R	S	MRMS (P)	RMR

WHEAT  
BARLEY  
OAT  
CANOLA  
CHICKPEA  
FABA BEAN  
FIELD PEAS  
LENTIL  
LUPIN

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,

<sup>^</sup> line contains a few susceptible off types.

Table 6: 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 <sup>db</sup>	SVS	S	S	MS	R <sup>^</sup> (P)	MR	MR	SVS	MR
Banks <sup>db</sup>	SVS	S	MR	S	S	MS	MR	VS	MS
Bass <sup>db</sup>	S	MSS	S	SVS	S	MS	MRMS	VS	S
Beast <sup>db</sup>	SVS	MS	MRMS	S	MR	MRMS	MRMS	SVS	S
Bottler <sup>db</sup>	SVS	MSS	MR	MRMS		MS	RMR	SVS	RMR
Buff <sup>db</sup>	SVS	MSS	MS	SVS		MRMS	MS	SVS	S
Combat <sup>db</sup>	S	RMR	MRMS#	S	MR	MRMS	MS	SVS	MS
Commander <sup>db</sup>	SVS	MSS	S	SVS	R	MRMS	MRMS	SVS	MSS
Commodus <sup>db</sup> CL	SVS	MSS	MSS	S	R	MRMS	MRMS	SVS	MSS
Compass <sup>db</sup>	SVS	MS	MS	SVS	R	MRMS	MR	SVS	S
Cyclops <sup>db</sup>	S	MS	MRMS	SVS	S	MRMS	MRMS	SVS	SVS
Fairview <sup>db</sup>	SVS	S	SVS	S		MR	MR	SVS	R
Fandaga <sup>db</sup>	SVS	S	MRMS	MSS	R	MR	MR	VS	R
Fathom <sup>db</sup>	S	RMR	MSS	MS	R	MRMS	MR	SVS	MRMS
Flinders <sup>db</sup>	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 <sup>db</sup>	SVS	S	MS	S	R	MRMS	MRMS	SVS	MSS
Laperouse <sup>db</sup>	VS	MRMS	MRMS#	SVS	S	MRMS	MR	VS	MSS
Leabrook <sup>db</sup>	SVS	MS	MS#	SVS	RMR	MRMS	RMR	VS	S
Litmus <sup>db</sup>	VS	S	S	SVS	MS	MS	MRMS	VS	MS
Maximus <sup>db</sup> CL	SVS	MS	MRMS	S	R	MRMS	MRMS	VS	S
Minotaur <sup>db</sup>	VS	S	MRMS	VS	R	MRMS	MRMS	SVS	S
Neo <sup>db</sup> CL	S (P)	MR (P)	MS (P)	S (P)	R	RMR (P)	MR (P)	SVS (P)	RMR (P)
RGT Planet <sup>db</sup>	SVS	SVS	SVS	MRMS	R (P)	MRMS	MR	SVS	RMR
Rosalind <sup>db</sup>	S	S	MR	MRMS	R	MRMS	MRMS	VS	MSS
SakuraStar	SVS	MS	MSS	S	R	MR	MR	SVS	MSS
Scope CL <sup>db</sup>	SVS	MSS	MR#	S	S	MRMS	MRMS	SVS	MRMS
Spartacus CL <sup>db</sup>	SVS	S	S	S	R	MRMS	MRMS	VS	MSS
Spinnaker <sup>db</sup>	S	SVS	S	S	S	MR	MS	VS	RMR
Titan AX <sup>db</sup>	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 <sup>db</sup>	SVS	S	MRMS	MRMS		MRMS	MS	SVS	RMR
Yeti <sup>db</sup>	VS	MS	MR#	SVS	RMR	MR	MR	VS	S
Zena <sup>db</sup> 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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# OAT

## Oat variety yield performance – Wimmera and Upper South-East South Australia

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

**Table 1: Bordertown oat.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	4.97	5.16	4.65	3.05	
13008-18			121	97	
Koala <sup>db</sup>	108	116	107	108	
Bannister <sup>db</sup>	109	114	110	103	
Williams <sup>db</sup>	107	111	105	101	
Bilby <sup>db</sup>	103	102	106	100	
Kowari <sup>db</sup>	98	94	100	98	No trial
Possum	96	94	96	100	
Mitika <sup>db</sup>	94	90	94	97	
Yallara <sup>db</sup>	92	87	90	85	
Koorabup <sup>db</sup>	90	86	86	87	
Sowing date	24 May	19 May	28 May	28 May	
Rainfall J–M (mm)	18	90	40	37	
Rainfall A–O (mm)	346	343	362	375	

No 2023 trial cooperator.

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

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

## 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 <sup>db</sup>	MSS	R/S (P)	MSS (P)		VS (P)	I (P)	MRMS (P)	MSS (P)	SVS (P)
Bannister <sup>db</sup>	S	MSS	MS	MR	MRMS	MT	MSS	S	MSS-SVS
Bilby <sup>db</sup>	S	MSS	S	S	S	MI	S	SVS	MS
Brusher <sup>db</sup>	SVS	MR	S	MR	S	MT	MSS	SVS	MS
Carrolup	S	S	SVS	VS	S	I	MSS	MSS	SVS
Durack <sup>db</sup>	S	S	S	MRMS	S	MT	S	S	SVS
Echidna	S	SVS	MSS	MS	MRMS	MT	SVS	S	MSS
Goldie <sup>db</sup>	SVS	SVS	MS	MR	S	I	MS	S	SVS
Kingbale <sup>db</sup>	MSS	S	MS	R	MR	MT	MSS	MSS (P)	S (P)
Koala <sup>db</sup>	MS	MSS	MSS	R	MS	MT	MSS	S	S
Kojonup <sup>db</sup>	S	S	MS	VS	MS	MT	MSS	SVS	S
Kowari <sup>db</sup>	S	SVS	S	S	S	I	S	S	S
Kultarr <sup>db</sup>	SVS (P)	MR (P)	MSS (P)		S (P)	MI (P)	MS (P)	MS (P)	S (P)
Mitika <sup>db</sup>	S	S	SVS	VS	S	MT	SVS	S	SVS
Mulgara <sup>db</sup>	S	MR	MSS	R	MR	MT	S/MS	MSS	SVS
Tungoo <sup>db</sup>	S	MR	MSS	MR	R	MT	MRMS#	S	MRMS
Wallaby <sup>db</sup>	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 <sup>db</sup>	S	MRMS	MSS	S	S	MI	MSS	MSS	MS
Wintaroo	S	S	MS	R	MR	MT	MS#	S	S
Yallara <sup>db</sup>	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 <sup>db</sup>	R/S (P)	MSS	MSS (P)	MSS (P)		SVS (P)	MRMS (P)
Bannister <sup>db</sup>	MSS	S	S	MS	MR	MSS-SVS	MSS
Bilby <sup>db</sup>	MSS	S	SVS	S	S	MS	S
Brusher <sup>db</sup>	MR	SVS	SVS	S	MR	MS	MSS
Carrolup	S	S	MSS	SVS	VS	SVS	MSS
Durack <sup>db</sup>	S	S	S	S	MRMS	SVS	S
Echidna	SVS	S	S	MSS	MS	MSS	SVS
Goldie <sup>db</sup>	SVS	SVS	S	MS	MR	SVS	MS
Kingbale <sup>db</sup>	S	MSS	MSS (P)	MS	R	S (P)	MSS
Koala <sup>db</sup>	MSS	MS	S	MSS	R	S	MSS
Kojonup <sup>db</sup>	S	S	SVS	MS	VS	S	MSS
Kowari <sup>db</sup>	SVS	S	S	S	S	S	S
Kultarr <sup>db</sup>	MR (P)	SVS (P)	MS (P)	MSS (P)		S (P)	MS (P)
Mitika <sup>db</sup>	S	S	S	SVS	VS	SVS	SVS
Mulgara <sup>db</sup>	MR	S	MSS	MSS	R	SVS	S/MS
Tungoo <sup>db</sup>	MR	S	S	MSS	MR	MRMS	MRMS#
Wallaby <sup>db</sup>	MR (P)	SVS (P)	MSS (P)	MS (P)		SVS (P)	MS (P)
Wandering	SVS	SVS	S	MSS	VS	S	MSS
Williams <sup>db</sup>	MRMS	S	MSS	MSS	S	MS	MSS
Wintaroo	S	S	S	MS	R	S	MS#
Yallara <sup>db</sup>	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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# CANOLA

## New canola varieties

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

Variety	Breeding company	End point royalty* (\$)	Comments supplied by breeding company <sup>1</sup>
DG Avon TT <sup>Ⓛ</sup>	Nutrien Ag Solutions Ltd	5.50	Early, determinant, short TT open-pollinated variety suited to low-medium rainfall zones.
DG Drummond TF	Nutrien Ag Solutions Ltd	N/A	DG Drummond TF is a tall, mid-late maturing, glyphosate-tolerant hybrid with group H blackleg resistance. DG Drummond TF is suited to medium to high-rainfall areas.
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.
PY525G	Pioneer Hi-Bred Aust	N/A	Pioneer® PY525G is a mid-maturing Optimum GLY® hybrid variety. Suited to mid-season growing regions. Mid-phenology. Medium-tall height. Blackleg resistance rating NA, resistance group NA. Tested in NVT trials 2023. Marketed by Pioneer Seeds.

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

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

## Canola variety yield performance – Wimmera and Upper South-East South Australia

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

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

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

Year	2019	2020	2021	2022	2023	
Mean yield (t/ha)		3.67	2.44	2.78	2.39	
InVigor® R 4520P	No trial	108	110	112	103	
InVigor® LR 4540P				104	101	
Pioneer® 44Y30 RR		105	110	107	105	
Pioneer® 45Y28 RR		105	104	107	110	
Nuseed® Hunter TF			113	102	105	
Nuseed® Eagle TF			103	107	109	
PY525G					107	
PY323G					104	
PY422G					103	
DG Drummond TF				106	104	
<b>Sowing date</b>			<b>22 Apr</b>	<b>11 May</b>	<b>22 Apr</b>	<b>4 May</b>
<b>Rainfall J–M (mm)</b>			<b>77</b>	<b>58</b>	<b>111</b>	<b>31</b>
<b>Rainfall A–O (mm)</b>		<b>288</b>	<b>256</b>	<b>476</b>	<b>261</b>	

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

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

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.01	3.32	3.55	2.83	3.04
Pioneer® 45Y28 RR		107	106	104	105
Nuseed® Eagle TF				105	104
Pioneer® 44Y30 RR		105	102	109	104
InVigor® R 4520P	107	105	99	106	106
Nuseed® Hunter TF				103	105
InVigor® LR 4540P				106	105
PY323G					102
PY525G					102
Nuseed® Raptor TF	101	104	105	100	102
PY422G					101
<b>Sowing date</b>	<b>7 May</b>	<b>4 May</b>	<b>15 May</b>	<b>10 May</b>	<b>9 May</b>
<b>Rainfall J–M (mm)</b>	<b>16</b>	<b>59</b>	<b>46</b>	<b>37</b>	<b>45</b>
<b>Rainfall A–O (mm)</b>	<b>271</b>	<b>350</b>	<b>323</b>	<b>375</b>	<b>265</b>

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

**Table 3: Keith low-med rainfall GLY.**

Year	2019	2020	2021	2022	2023		
Mean yield (t/ha)			2.06	3.02	2.07		
Nuseed® Hunter TF	No trial	No trial		105	108		
InVigor® LR 4540P				104	105		
PY424GC					105		
Hyola® Regiment XC				102		103	
InVigor® R 4520P				103	104	102	
Pioneer® 44Y30 RR				101	105	101	
Nuseed® Raptor TF				99	107	100	
Hyola® Garrison XC					104	101	
Pioneer® 44Y27 (RR)					101	100	103
PY323G							105
<b>Sowing date</b>					<b>17 May</b>	<b>11 May</b>	<b>10 May</b>
<b>Rainfall J–M (mm)</b>					<b>65</b>	<b>67</b>	<b>31</b>
<b>Rainfall A–O (mm)</b>			<b>320</b>	<b>410</b>	<b>237</b>		

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

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

Year	2019	2020	2021	2022	2023	
Mean yield (t/ha)		3.62	2.25	3.05	2.43	
PY421C	No trial			120	114	
Pioneer® 44Y94 CL			112	117	117	115
Pioneer® 45Y95 (CL)				113	116	117
Pioneer® 45Y93 CL			109			113
Hyola® Continuum CL					110	110
Hyola® Solstice CL				114	89	105
Pioneer® 43Y92 (CL)					100	102
PY520TC					103	100
Nuseed® Ceres IMI				112	85	96
VICTORY® V75-03CL			93	90		94
<b>Sowing date</b>			<b>23 Apr</b>	<b>11 May</b>	<b>22 Apr</b>	<b>4 May</b>
<b>Rainfall J–M (mm)</b>			<b>77</b>	<b>58</b>	<b>111</b>	<b>31</b>
<b>Rainfall A–O (mm)</b>		<b>288</b>	<b>256</b>	<b>476</b>	<b>261</b>	

Special thanks to 2023 trial cooperator, Karl Beddison.

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® Defender CT, Hyola® Garrison XC and Hyola® Regiment XC.

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

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**Table 5: Kaniva med-high rainfall IMI.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.06	3.41	3.08	2.38	2.82
PY421C				116	113
Pioneer® 45Y95 (CL)	110		110	115	111
Pioneer® 44Y94 CL	107	111	108	122	110
Pioneer® 45Y93 CL	106	107			107
Hyola® Continuum CL				115	105
Hyola® Solstice CL			106	81	107
Pioneer® 43Y92 (CL)	101			103	102
Nuseed® Ceres IMI				90	100
PY520TC				99	96
VICTORY® V75-03CL	93	94	97		93
<b>Sowing date</b>	<b>7 May</b>	<b>4 May</b>	<b>15 May</b>	<b>10 May</b>	<b>9 May</b>
<b>Rainfall J–M (mm)</b>	<b>16</b>	<b>59</b>	<b>46</b>	<b>37</b>	<b>45</b>
<b>Rainfall A–O (mm)</b>	<b>271</b>	<b>350</b>	<b>323</b>	<b>375</b>	<b>265</b>

Special thanks to 2023 trial cooperator, Alwyn Dyer. 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® Defender CT, Hyola® Garrison XC and Hyola® Regiment XC. Learn more via the [NVT Long Term Yield Reporter](#)

**Table 6: Minimay med-high rainfall IMI.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		3.36	2.75		2.87
Pioneer® 45Y95 (CL)			105		115
PY421C					117
Pioneer® 44Y94 CL		110	105		113
Pioneer® 45Y93 CL		111			111
Hyola® Continuum CL	No trial			Trial failed	107
Hyola® Solstice CL			107		109
Pioneer® 43Y92 (CL)					102
Nuseed® Ceres IMI					99
PY520TC					97
VICTORY® V75-03CL		95	99		91
<b>Sowing date</b>		<b>27 Apr</b>	<b>28 Apr</b>	<b>22 Apr</b>	<b>16 May</b>
<b>Rainfall J–M (mm)</b>		<b>74</b>	<b>62</b>	<b>131</b>	<b>54</b>
<b>Rainfall A–O (mm)</b>		<b>398</b>	<b>374</b>	<b>503</b>	<b>385</b>

Special thanks to 2023 trial cooperator, Dale Hage. 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® Defender CT. Learn more via the [NVT Long Term Yield Reporter](#)

**Table 7: Keith low-med rainfall IMI.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	3.02	3.11	2.04	2.73	1.74
Pioneer® 45Y95 (CL)					110
PY421C					107
Pioneer® 44Y94 CL			104	113	107
Hyola® Equinox CL				104	
Hyola® Solstice CL			104		108
Hyola® Continuum CL				103	100
Pioneer® 43Y92 (CL)	97	101	100	103	100
Nuseed® Ceres IMI			104	95	104
PY520TC					93
VICTORY® V7002CL	99	91	90		
<b>Sowing date</b>	<b>7 May</b>	<b>28 Apr</b>	<b>17 May</b>	<b>11 May</b>	<b>10 May</b>
<b>Rainfall J–M (mm)</b>	<b>21</b>	<b>74</b>	<b>65</b>	<b>67</b>	<b>31</b>
<b>Rainfall A–O (mm)</b>	<b>296</b>	<b>353</b>	<b>320</b>	<b>410</b>	<b>237</b>

Special thanks to 2023 trial cooperator, Andrew McLean. 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, Hyola® Garrison XC and Hyola® Regiment XC. Learn more via the [NVT Long Term Yield Reporter](#)

**Table 8: Horsham med-high rainfall TT.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		3.25	2.26	2.84	2.33
Hyola® Blazer TT		113	113	118	117
Hyola® Defender CT				121	116
HyITec® Trifecta		113	114	112	116
PY520TC			109	117	116
SF Dynatron TT	No trial	110	112	114	111
HyITec® Trophy		109	116	107	113
RGT Baseline® TT			100	120	112
InVigor® T 6010		107	98	115	106
RGT Capacity TT		107	105	110	105
HyITec® Trident		105	121	94	110
<b>Sowing date</b>		<b>23 Apr</b>	<b>11 May</b>	<b>22 Apr</b>	<b>4 May</b>
<b>Rainfall J–M (mm)</b>		<b>77</b>	<b>58</b>	<b>111</b>	<b>31</b>
<b>Rainfall A–O (mm)</b>		<b>288</b>	<b>256</b>	<b>476</b>	<b>261</b>

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

Table 9: Kaniva med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.85	3.15	2.84	2.24	2.58
Hyola® Blazer TT		113	110	118	112
Hyola® Defender CT				125	109
HyITec® Trifecta		113	111	109	112
PY520TC				118	109
HyITec® Trophy	108	111	109	110	109
SF Dynatron TT	106	109	105	117	108
RGT Baseline® TT			106	114	107
HyITec® Trident	104	110	109	104	107
InVigor® T 4511			104	104	106
InVigor® T 4510	105	106	103	106	106
<b>Sowing date</b>	<b>7 May</b>	<b>4 May</b>	<b>15 May</b>	<b>10 May</b>	<b>9 May</b>
<b>Rainfall J–M (mm)</b>	<b>16</b>	<b>59</b>	<b>46</b>	<b>37</b>	<b>45</b>
<b>Rainfall A–O (mm)</b>	<b>271</b>	<b>350</b>	<b>323</b>	<b>375</b>	<b>265</b>

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

Table 10: Minimay med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		3.06	2.58		2.44
HyITec® Trifecta	No trial	111	106	Trial failed	118
Hyola® Blazer TT		112	105		117
Hyola® Defender CT					114
PY520TC			105		114
HyITec® Trophy		108	108		113
HyITec® Trident		103	115		108
SF Dynatron TT		109	102		112
RGT Baseline® TT			99		112
InVigor® T 4511			103		108
InVigor® T 4510		104	103		107
<b>Sowing date</b>		<b>27 Apr</b>	<b>28 Apr</b>	<b>22 Apr</b>	<b>16 May</b>
<b>Rainfall J–M (mm)</b>		<b>74</b>	<b>62</b>	<b>131</b>	<b>54</b>
<b>Rainfall A–O (mm)</b>		<b>398</b>	<b>374</b>	<b>503</b>	<b>385</b>

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

Table 11: Keith low-med rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.41	2.89	2.00	2.96	1.67
HyITec® Trident	115	112	106	109	116
SF Dynatron TT	108	116	105	112	110
Hyola® Blazer TT		117	106	112	109
HyITec® Trophy	109	111	106	109	112
RGT Baseline® TT				110	106
InVigor® T 4510	111	107	103	104	108
Hyola® Defender CT				109	103
Hyola® Enforcer CT	97	108	103	110	106
InVigor® LT 4530P			100	104	101
InVigor® T 4511			102	105	106
<b>Sowing date</b>	<b>7 May</b>	<b>28 Apr</b>	<b>17 May</b>	<b>11 May</b>	<b>10 May</b>
<b>Rainfall J–M (mm)</b>	<b>21</b>	<b>74</b>	<b>65</b>	<b>67</b>	<b>31</b>
<b>Rainfall A–O (mm)</b>	<b>296</b>	<b>353</b>	<b>320</b>	<b>410</b>	<b>237</b>

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

## 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 9: 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	ABH	ADFH	
<b>CONVENTIONAL VARIETIES</b>																										
Outlaw <sup>Ⓟ</sup>	RMR			Open pollinated	A																					
Nuseed® Quartz	RMR			Hybrid	ABD																					
Nuseed® Diamond	RMR	R	R	Hybrid	ABF																					
<b>TRIAZINE-TOLERANT VARIETIES</b>																										
HyTTec® Trifecta	R			Hybrid	ABD																					
HyTTec® Trident	R			Hybrid	AD																					
Monola® H524TT	R			High stability oil, hybrid	AD																					
DG Bidgee TT <sup>Ⓟ</sup>	R	R	R	Open pollinated	H																					
HyTTec® Trophy	R	R	R	Hybrid	AD																					
DG Torrens TT <sup>Ⓟ</sup>	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 <sup>Ⓟ</sup>	RMR			Open pollinated	AB																					
DG Avon TT <sup>Ⓟ</sup>	MR	R	R	Open pollinated	AC																					
SF Spark™ TT	MR	R	R	Hybrid	ABDS																					
InVigor® T 4510	MR	R	R	Hybrid	BF																					
Renegade TT <sup>Ⓟ</sup>	MR			Open pollinated	A																					
HyTTec® Velocity	MR			Hybrid	AB																					
Monola® 422TT	MRMS			Open pollinated	BC																					
ATR-Swordfish <sup>Ⓟ</sup>	MRMS			Open pollinated	AB																					
SF Dynatron™ TT	MRMS	R	R	Hybrid	BC																					
RGT Baseline™ TT	MRMS	R	R	Hybrid	B																					
Bandit TT <sup>Ⓟ</sup>	MRMS	R	R	Open pollinated	A																					
RGT Capacity™ TT	MRMS	RMR	R	Hybrid	B																					
AFP Cutubury <sup>Ⓟ</sup>	MS	MR	RMR	Open pollinated	AB																					
ATR-Bonito <sup>Ⓟ</sup>	MS	RMR	R	Open pollinated	A																					

Continued on next page



Table 9: Canola disease guide – 2024 autumn blackleg ratings and resistance groups (continued).

Variety	2024 Blackleg rating Bare	2024 Blackleg rating lLeVo®	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	
<b>IMIDAZOLINONE-TOLERANT VARIETIES</b>																										
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 IMI	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																					
<b>IMIDAZOLINONE AND TRIAZINE-TOLERANT VARIETIES</b>																										
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																					
<b>GLYPHOSATE-TOLERANT VARIETIES</b>																										
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 9: 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
<b>GLYPHOSATE-TOLERANT VARIETIES</b>																								
InVigor® R 4022P	MRMS	R		Hybrid, TruFlex®	ABC																			
InVigor® R 4520P	MRMS	R		Hybrid, TruFlex®	B																			
Pioneer® PY323G	MRMS		R	Hybrid, Optimum GLY®	BC																			
<b>GLYPHOSATE AND IMIDAZOLINONE-TOLERANT VARIETIES</b>																								
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																			
<b>GLUFOSINATE AND TRIAZINE-TOLERANT VARIETIES</b>																								
InVigor® LT 4530P	RMR	R		Hybrid, LibertyLink®, Triazine	BF																			
<b>GLUFOSINATE AND GLYPHOSATE-TOLERANT VARIETIES</b>																								
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 – Wimmera and Upper South-East South Australia

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

**Table 1: Horsham desi chickpea.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		1.59		2.05	1.39
PBA Striker <sup>db</sup>	No trial	110	Compromised trial	105	110
PBA Slasher <sup>db</sup>		107		103	104
PBA Maiden <sup>db</sup>		102		102	104
Neelam <sup>db</sup>		100		103	104
CBA Captain <sup>db</sup>		102		87	94
PBA Seamer <sup>db</sup>					97
<b>Sowing date</b>		<b>25 May</b>	<b>31 May</b>	<b>24 May</b>	<b>29 Jun</b>
<b>Rainfall J–M (mm)</b>		<b>77</b>	<b>58</b>	<b>111</b>	<b>31</b>
<b>Rainfall A–O (mm)</b>		<b>288</b>	<b>256</b>	<b>476</b>	<b>261</b>

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

**Table 2: Kaniva desi chickpea.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.45	1.66		1.55	0.91
PBA Striker <sup>db</sup>	109	112	Trial failed	98	125
PBA Slasher <sup>db</sup>	102	105		105	113
PBA Maiden <sup>db</sup>	109	108		91	104
Neelam <sup>db</sup>	104	105		97	106
Ambar <sup>db</sup>	111				
CBA Captain <sup>db</sup>	91	91		100	95
PBA Seamer <sup>db</sup>			95		
<b>Sowing date</b>	<b>30 May</b>	<b>29 May</b>	<b>31 May</b>	<b>25 May</b>	<b>13 Jul</b>
<b>Rainfall J–M (mm)</b>	<b>16</b>	<b>59</b>	<b>46</b>	<b>37</b>	<b>45</b>
<b>Rainfall A–O (mm)</b>	<b>271</b>	<b>350</b>	<b>323</b>	<b>375</b>	<b>265</b>

Special thanks to 2023 trial cooperator, Brett Jewell. 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](http://nvt.grdc.com.au/resources/crop-sowing-guides)

**Table 3: Horsham kabuli chickpea.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		1.64		1.94	1.46
Genesis™ 090	No trial	102	Compromised trial	105	98
PBA Royal <sup>db</sup>		107		97	100
Almaz <sup>db</sup>		94		102	99
PBA Monarch <sup>db</sup>		94		99	99
Genesis™ Kalkee		85		99	99
PBA Magnus <sup>db</sup>		99		82	92
Sowing date		25 May	31 May	24 May	29 Jun
Rainfall J–M (mm)		77	58	111	31
Rainfall A–O (mm)		288	256	476	261

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

**Table 4: Kaniva kabuli chickpea.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.38	1.83		1.12	1.02
Genesis™ 090	103	101	Trial failed	109	95
PBA Royal <sup>db</sup>	88	95		121	112
Almaz <sup>db</sup>	89	94		110	101
PBA Monarch <sup>db</sup>	96	97		95	96
Genesis™ Kalkee	86	91		97	95
PBA Magnus <sup>db</sup>	90	89		92	89
Sowing date	30 May	19 Jun	31 May	25 May	13 Jul
Rainfall J–M (mm)	16	59	46	37	45
Rainfall A–O (mm)	271	350	323	375	265

Special thanks to 2023 trial cooperator, Brett Jewell. 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> )
<b>DESI</b>				
CBA Captain <sup>db</sup>	S	S	MR	MS
Genesis™ 836	S		MR	MS
Kyabra <sup>db</sup>	VS	VS	MRMS	S
Neelam <sup>db</sup>	S		MRMS	MS
PBA Boundary <sup>db</sup>	S	VS	RMR	MRMS
PBA Drummond <sup>db</sup>	VS	VS	MR	MRMS
PBA HatTrick <sup>db</sup>	S	S	MRMS	MRMS
PBA Maiden <sup>db</sup>	S		MRMS	MRMS
PBA Pistol <sup>db</sup>	S		RMR	MRMS
PBA Seamer <sup>db</sup>	S	S	MRMS	MRMS
PBA Slasher <sup>db</sup>	S		MRMS	MRMS
PBA Striker <sup>db</sup>	S		MRMS	MRMS
<b>KABULI</b>				
Almaz <sup>db</sup>	S		MRMS	S
Genesis™ 090	MS		MRMS	MS
Genesis™ Kalkee	S		MRMS	MS
PBA Magnus <sup>db</sup>	S		MR	MSS
PBA Monarch <sup>db</sup>	S		MRMS	MS
PBA Royal <sup>db</sup>	MS		MR	MS

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

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

# FABA BEAN

## Faba bean variety yield performance – Wimmera and Upper South-East South Australia

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

**Table 1: Kaniva faba bean.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.72	5.68	1.93	3.67	3.76
PBA Samira <sup>Ⓛ</sup>	93	101	96	105	101
PBA Zahra <sup>Ⓛ</sup>	94	98	95	105	104
PBA Amberley <sup>Ⓛ</sup>	90	101	95	103	100
PBA Marne <sup>Ⓛ</sup>	90	87	98	101	104
Fiesta VF	86	96	95	94	98
PBA Bendoc <sup>Ⓛ*</sup>	97	97	97	83	98
Farah <sup>Ⓛ</sup>	86	96	95	92	98
Nura <sup>Ⓛ</sup>	90	97	96	75	93
PBA Rana <sup>Ⓛ</sup>	78		94	79	83
<b>Sowing date</b>	<b>7 May</b>	<b>5 May</b>	<b>24 May</b>	<b>8 May</b>	<b>17 May</b>
<b>Rainfall J–M (mm)</b>	<b>16</b>	<b>59</b>	<b>46</b>	<b>37</b>	<b>45</b>
<b>Rainfall A–O (mm)</b>	<b>271</b>	<b>350</b>	<b>323</b>	<b>375</b>	<b>265</b>

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

**Table 2: Minimay faba bean.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		3.34	3.53		3.48
PBA Samira <sup>Ⓛ</sup>		101	102		103
PBA Amberley <sup>Ⓛ</sup>		101	102		103
PBA Zahra <sup>Ⓛ</sup>		92	106		107
PBA Rana <sup>Ⓛ</sup>			89		88
Fiesta VF	No trial	96	101	Trial failed	99
Farah <sup>Ⓛ</sup>		94	101		100
PBA Bendoc <sup>Ⓛ*</sup>		92	101		101
Nura <sup>Ⓛ</sup>		95	98		96
PBA Marne <sup>Ⓛ</sup>		81	105		100
<b>Sowing date</b>		<b>27 April</b>	<b>29 April</b>	<b>6 May</b>	<b>16 May</b>
<b>Rainfall J–M (mm)</b>		<b>74</b>	<b>62</b>	<b>131</b>	<b>54</b>
<b>Rainfall A–O (mm)</b>		<b>398</b>	<b>374</b>	<b>503</b>	<b>385</b>

Special thanks to 2023 trial cooperator, Dale Hage.  
\* herbicide-tolerant variety. 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](https://nvt.grdc.com.au/resources/crop-sowing-guides)

**Table 3: Mundulla/Wolseley faba bean.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.96	4.45	4.20		2.56
PBA Rana <sup>Ⓛ</sup>	81		85	Compromised trial	86
PBA Amberley <sup>Ⓛ</sup>	100	105	98		96
PBA Samira <sup>Ⓛ</sup>	100	104	98		97
PBA Zahra <sup>Ⓛ</sup>	106	89	101		98
Fiesta VF	94	107	92		93
Farah <sup>Ⓛ</sup>	95	103	92		94
Nura <sup>Ⓛ</sup>	94	103	92		94
PBA Bendoc <sup>Ⓛ*</sup>	101	90	98		98
PBA Marne <sup>Ⓛ</sup>	95	89	92		97
<b>Sowing date</b>	<b>15 May</b>	<b>6 May</b>	<b>5 May</b>		<b>12 May</b>
<b>Rainfall J–M (mm)</b>	<b>16</b>	<b>90</b>	<b>40</b>	<b>28</b>	<b>57</b>
<b>Rainfall A–O (mm)</b>	<b>288</b>	<b>343</b>	<b>362</b>	<b>374</b>	<b>329</b>

Special thanks to 2023 trial cooperator, Ryan Smart.

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

**Table 4: Wonwondah faba bean.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.88	4.48	2.88		
PBA Bendoc <sup>Ⓛ*</sup>	105	112	93	Trial failed	Trial failed
Nura <sup>Ⓛ</sup>	97	119	88		
PBA Rana <sup>Ⓛ</sup>	74		90		
PBA Amberley <sup>Ⓛ</sup>	89	101	101		
PBA Samira <sup>Ⓛ</sup>	91	98	102		
PBA Zahra <sup>Ⓛ</sup>	95	95	102		
Farah <sup>Ⓛ</sup>	88	104	94		
Fiesta VF	86	103	94		
PBA Marne <sup>Ⓛ</sup>	91	84	93		
<b>Sowing date</b>	<b>6 May</b>	<b>4 May</b>	<b>13 May</b>		
<b>Rainfall J–M (mm)</b>	<b>3</b>	<b>95</b>	<b>80</b>	<b>111</b>	<b>44</b>
<b>Rainfall A–O (mm)</b>	<b>256</b>	<b>300</b>	<b>287</b>	<b>476</b>	<b>262</b>

Special thanks to 2023 trial cooperator, Jason Pymmer.

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

## 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 5: 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 <sup>Ⓛ</sup>	MS	S	S	MS	VS
FBA Ayla <sup>Ⓛ</sup>		S	S	MRMS	MR
Fiesta VF	S	S	S	MS	VS
Nura <sup>Ⓛ</sup>	MR (P)	S	MS	MS	VS
PBA Amberley <sup>Ⓛ</sup>	MR	S	MRMS	MRMS	VS
PBA Bendoc <sup>Ⓛ</sup>	MR	S	S	MRMS	VS
PBA Marne <sup>Ⓛ</sup>	MS	S	MS (P)	MS	MRMS
PBA Nanu <sup>Ⓛ</sup>		S	S	MRMS	MR
PBA Nasma <sup>Ⓛ</sup>	S	S	S	MSS	MRMS
PBA Rana <sup>Ⓛ</sup>	MRMS (P)	S	MS	MS	VS
PBA Samira <sup>Ⓛ</sup>	MR (P)	S	MS	MRMS	S
PBA Warda <sup>Ⓛ</sup>	S	S	S	MRMS	MRMS
PBA Zahra <sup>Ⓛ</sup>	MRMS	S	MS	MRMS	S

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

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

# 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](http://nvt.grdc.com.au) to find trial results for any new varieties released since the publication of this harvest report.

Variety	Breeding company	End point royalty* (\$)	Comments supplied by breeding company <sup>1</sup>
APB Bondi <sup>Ⓛ</sup>	Agriculture Victoria	TBC	APB Bondi <sup>Ⓛ</sup> (tested as OZP1903) is a Kaspa-type pea with mid-flowering and mid-maturity. APB Bondi <sup>Ⓛ</sup> 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 Kaspa pea.

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

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

## Field pea variety yield performance – Wimmera and Upper South-East South Australia

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

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

**Table 1: Horsham field pea.**

Year	2019	2020	2021	2022	2023		
Mean yield (t/ha)		3.14		2.37	1.92		
PBA Pearl	No trial	113	Compromised trial	113	106		
PBA Percy		104		115	99		
PBA Butler <sup>db</sup>				107	107		
APB Bondi <sup>db</sup>		105		97	106		
PBA Oura <sup>db</sup>		103		100	98		
PBA Noosa <sup>db</sup>		100		100	101		
PBA Taylor <sup>db</sup>		100		95	104		
Kaspa		94		102	101		
PBA Gonyah <sup>db</sup>				96	99		
PBA Wharton <sup>db</sup>		99		82	96		
<b>Sowing date</b>				<b>25 May</b>	<b>31 May</b>	<b>24 May</b>	<b>29 June</b>
<b>Rainfall J–M (mm)</b>				<b>77</b>	<b>58</b>	<b>111</b>	<b>31</b>
<b>Rainfall A–O (mm)</b>		<b>288</b>	<b>256</b>	<b>476</b>	<b>261</b>		

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

**Table 2: Kaniva field pea.**

Year	2019	2020	2021	2022	2023		
Mean yield (t/ha)	1.69	4.31			1.79		
PBA Pearl	155	107	Trial failed	Compromised trial	109		
PBA Percy	144	95			105		
PBA Butler <sup>db</sup>	102				111		
APB Bondi <sup>db</sup>		111			105		
PBA Oura <sup>db</sup>	120	99			96		
PBA Taylor <sup>db</sup>	81	107			102		
PBA Noosa <sup>db</sup>	98	100			101		
PBA Gonyah <sup>db</sup>	84				98		
Kaspa	76	100			105		
PBA Wharton <sup>db</sup>	78	101			87		
<b>Sowing date</b>	<b>30 May</b>	<b>29 May</b>			<b>31 May</b>	<b>25 May</b>	<b>13 July</b>
<b>Rainfall J–M (mm)</b>	<b>16</b>	<b>59</b>			<b>46</b>	<b>37</b>	<b>45</b>
<b>Rainfall A–O (mm)</b>	<b>271</b>	<b>350</b>	<b>323</b>	<b>375</b>	<b>265</b>		

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

**Table 3: Mundulla field pea.**

Year	2019	2020	2021	2022	2023		
Mean yield (t/ha)	2.01	3.56			2.59		
PBA Pearl	120	110	Compromised trial	Compromised trial	107		
APB Bondi <sup>db</sup>	115	112			106		
PBA Butler <sup>db</sup>	113				108		
PBA Taylor <sup>db</sup>	103	107			105		
PBA Noosa <sup>db</sup>	111	101			98		
Kaspa	101	99			101		
PBA Percy	93	96			103		
PBA Oura <sup>db</sup>	89	99			101		
PBA Gonyah <sup>db</sup>	90				100		
PBA Wharton <sup>db</sup>	86	100			97		
<b>Sowing date</b>	<b>31 May</b>	<b>27 May</b>			<b>1 June</b>	<b>28 May</b>	<b>31 May</b>
<b>Rainfall J–M (mm)</b>	<b>18</b>	<b>90</b>			<b>40</b>	<b>28</b>	<b>57</b>
<b>Rainfall A–O (mm)</b>	<b>346</b>	<b>343</b>	<b>362</b>	<b>374</b>	<b>329</b>		

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN



## 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 4: 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 <sup>db</sup>	S	RMR (S)	RMR	RMR	MSS
GIA Kastar <sup>db</sup>	S	S	RMR	MR	MS
GIA Ourstar <sup>db</sup>	S (P)	S	S	MRMS	MS
Kaspa	S	S	S	RMR	MRMS
PBA Butler <sup>db</sup>	MS	S	S	RMR	MRMS
PBA Gunyah <sup>db</sup>	S	S	S	RMR	MRMS
PBA Noosa <sup>db</sup>	S	MS	S	RMR	MRMS
PBA Oura <sup>db</sup>	MS	S	S	MR	MRMS
PBA Pearl	MS	S	S	MR	MRMS
PBA Percy	MRMS	S	S	RMR	RMR
PBA Taylor <sup>db</sup>	S	S	S	RMR	MRMS
PBA Twilight <sup>db</sup>	S	S	S	MR	MRMS
PBA Wharton <sup>db</sup>	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](http://nvt.grdc.com.au) to find trial results for any new varieties released since the publication of this harvest report.

Variety	Breeding company	End point royalty* (\$)	Comments supplied by breeding company <sup>1</sup>
ALB Terrier <sup>Ⓓ</sup>	Agriculture Victoria	TBC	ALB Terrier <sup>Ⓓ</sup> 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, <sup>Ⓓ</sup> denotes Plant Breeder's Rights apply. <sup>1</sup> All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder.

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

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

## Lentil variety yield performance – Wimmera and Upper South-East South Australia

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

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

**Table 1: Horsham lentil.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		2.14			
GIA Thunder <sup>db*</sup>	No trial	107	Compromised trial	Compromised trial	Compromised trial
PBA Ace <sup>db</sup>		107			
GIA Lightning <sup>db*</sup>		107			
PBA Kelpie XT <sup>db*</sup>		105			
PBA Jumbo2 <sup>db</sup>		105			
PBA HighlandXT <sup>db*</sup>		102			
PBA Blitz <sup>db</sup>		102			
PBA Bolt <sup>db</sup>		101			
PBA Hurricane XT <sup>db*</sup>		100			
GIA Leader <sup>db*</sup>		99			
<b>Sowing date</b>		<b>25 May</b>	<b>31 May</b>	<b>24 May</b>	<b>29 Jun</b>
<b>Rainfall J–M (mm)</b>		<b>77</b>	<b>58</b>	<b>111</b>	<b>31</b>
<b>Rainfall A–O (mm)</b>		<b>288</b>	<b>256</b>	<b>476</b>	<b>261</b>

Special thanks to 2023 trial cooperator, Peter Blair.

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

**Table 2: Kaniva lentil.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.31	2.81		2.17	1.21
GIA Thunder <sup>db*</sup>		106	Trial failed	135	116
PBA Jumbo2 <sup>db</sup>	100	104		131	112
ALB Terrier <sup>db</sup>				129	99
PBA Kelpie XT <sup>db*</sup>	97	106		114	111
PBA HighlandXT <sup>db*</sup>	101	104		96	112
GIA Lightning <sup>db*</sup>		108		83	110
PBA Hurricane XT <sup>db*</sup>	99	99		103	92
GIA Leader <sup>db*</sup>	98	96		107	83
PBA Hallmark XT <sup>db*</sup>	96	93		104	95
PBA Ace <sup>db</sup>	102	104		80	84
<b>Sowing date</b>	<b>30 May</b>	<b>29 May</b>	<b>31 May</b>	<b>24 May</b>	<b>13 Jul</b>
<b>Rainfall J–M (mm)</b>	<b>16</b>	<b>59</b>	<b>46</b>	<b>37</b>	<b>45</b>
<b>Rainfall A–O (mm)</b>	<b>271</b>	<b>350</b>	<b>323</b>	<b>375</b>	<b>265</b>

Special thanks to 2023 trial cooperator, Brett Jewell.

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

**Table 3: Mundulla lentil.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.32	2.63		2.85	1.55
GIA Thunder <sup>db*</sup>		113	Compromised trial	125	114
ALB Terrier <sup>db</sup>				120	102
PBA Jumbo2 <sup>db</sup>	107	107		114	111
GIA Lightning <sup>db*</sup>		109		100	110
PBA Kelpie XT <sup>db*</sup>	98	105		100	112
PBA HighlandXT <sup>db*</sup>	98	104		98	106
PBA Hurricane XT <sup>db*</sup>	100	97		100	98
GIA Leader <sup>db*</sup>	103	94		103	93
PBA Ace <sup>db</sup>	95	99		92	103
PBA Hallmark XT <sup>db*</sup>	100	93		99	89
<b>Sowing date</b>	<b>31 May</b>	<b>27 May</b>	<b>1 Jun</b>	<b>28 May</b>	<b>31 May</b>
<b>Rainfall J–M (mm)</b>	<b>18</b>	<b>90</b>	<b>40</b>	<b>28</b>	<b>57</b>
<b>Rainfall A–O (mm)</b>	<b>346</b>	<b>343</b>	<b>362</b>	<b>374</b>	<b>329</b>

Special thanks to 2023 trial cooperator, Ryan Smart.

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

## 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 4: Lentil disease guide for South Australia and Victoria.**

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

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](http://nvt.grdc.com.au) to find trial results for any new varieties released since the publication of this harvest report.

Variety	Breeding company	End point royalty* (\$)	Comments supplied by breeding company <sup>1</sup>
Gidgee <sup>Ⓓ</sup>	Australian Grain Technologies	4.50	A very high and stable yielding alternative to PBA Jurien <sup>Ⓓ</sup> and Mandelup <sup>Ⓓ</sup> . 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 <sup>Ⓓ</sup> . Moderately resistant to stem Phomopsis. Good CMV resistance. Slightly quicker maturity relative to PBA Jurien <sup>Ⓓ</sup> , slightly slower than Mandelup <sup>Ⓓ</sup> .
Rosemont <sup>Ⓓ</sup>	Australian Grain Technologies	4.50	A very high yielding alternative to PBA Jurien <sup>Ⓓ</sup> , Coyote <sup>Ⓓ</sup> and Mandelup <sup>Ⓓ</sup> . 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 <sup>Ⓓ</sup> . Taller plant height, may improve harvestability. Moderately resistant to stem Phomopsis. Good CMV resistance. Slightly slower maturity relative to PBA Jurien <sup>Ⓓ</sup> , slightly quicker than Coyote <sup>Ⓓ</sup> .

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

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

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

## Lupin variety yield performance – Wimmera and Upper South-East South Australia

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

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

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

Year	2019	2020	2021	2022	2023		
Mean yield (t/ha)	1.29	2.53		1.97			
PBA Barlock <sup>db</sup>	84	104	Trial failed	145	Compromised trial		
PBA Bateman <sup>db</sup>	114	110		117			
Jenabillup <sup>db</sup>	99	104		130			
PBA Gunyidi <sup>db</sup>	111	107		118			
PBA Jurien <sup>db</sup>	84	107		135			
Wonga	90	92		131			
Coyote <sup>db</sup>		111		79			
Rosemont <sup>db</sup>				88			
Mandelup <sup>db</sup>	96	101		105			
Lawler <sup>db</sup>		105		86			
<b>Sowing date</b>	<b>18 May</b>	<b>11 May</b>		<b>7 May</b>		<b>20 May</b>	<b>26 May</b>
<b>Rainfall J–M (mm)</b>	<b>21</b>	<b>74</b>		<b>65</b>		<b>67</b>	<b>31</b>
<b>Rainfall A–O (mm)</b>	<b>296</b>	<b>353</b>	<b>320</b>	<b>410</b>	<b>237</b>		

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

**Table 2: Mundulla narrow-leaf lupin.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.92	3.18	1.32	1.62	0.70
PBA Bateman <sup>db</sup>	114	105	102	118	134
PBA Gunyidi <sup>db</sup>	113	102	101	115	127
Coyote <sup>db</sup>		110	95	98	144
PBA Barlock <sup>db</sup>	106	100	109	130	98
Jenabillup <sup>db</sup>	111	99	104	120	113
PBA Jurien <sup>db</sup>	100	105	110	128	96
Rosemont <sup>db</sup>				103	113
Lawler <sup>db</sup>		107	99	98	111
Mandelup <sup>db</sup>	99	102	102	105	97
Wonga	111	85	100	106	92
<b>Sowing date</b>	<b>10 May</b>	<b>6 May</b>	<b>6 May</b>	<b>13 May</b>	<b>29 May</b>
<b>Rainfall J–M (mm)</b>	<b>18</b>	<b>90</b>	<b>40</b>	<b>28</b>	<b>57</b>
<b>Rainfall A–O (mm)</b>	<b>346</b>	<b>343</b>	<b>362</b>	<b>374</b>	<b>329</b>

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

## 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 3: 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 <sup>Ⓛ</sup>	MR	MR	MS	MR	S (P)
Coyote <sup>Ⓛ</sup>	MRMS	MRMS	MRMS	S	S (P)
Gidgee <sup>Ⓛ</sup>	RMR	MRMS	S (P)	MR	S (P)
Jenabillup <sup>Ⓛ</sup>	MS	MRMS	MR	MS	S (P)
Lawler <sup>Ⓛ</sup>	MR	MRMS	MS	MR	S (P)
Mandelup <sup>Ⓛ</sup>	MRMS	MRMS	S	MR	S (P)
PBA Barlock <sup>Ⓛ</sup>	RMR	MRMS	MR	MR	S (P)
PBA Bateman <sup>Ⓛ</sup>	MRMS	MR	MS	RMR	S (P)
PBA Gunyidi <sup>Ⓛ</sup>	MRMS	MRMS	MRMS	RMR	S (P)
PBA Jurien <sup>Ⓛ</sup>	RMR	MS	MRMS	RMR	S (P)
PBA Leeman <sup>Ⓛ</sup>	MRMS	MRMS	MRMS	MR	S (P)
Rosemont <sup>Ⓛ</sup>	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.

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

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FIELD PEA

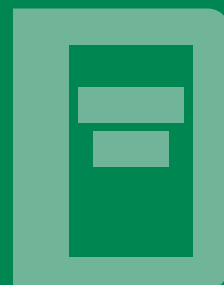
LENTIL

LUPIN

# NVT tools



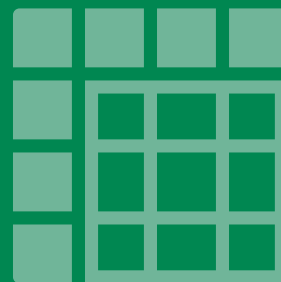
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