



# NVT HARVEST REPORT



MARCH 2024

**Mallee South Australia and Victoria**  
**Southern Region**

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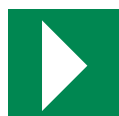
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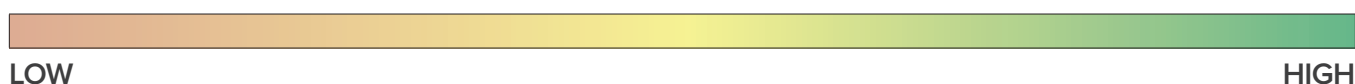
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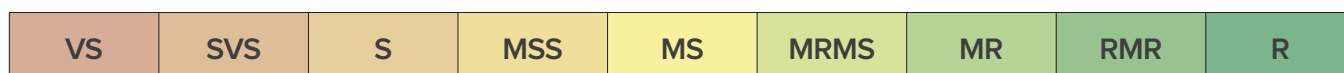
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## LEGEND: MEAN VARIETY YIELD PERFORMANCE



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

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

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

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

## Interpreting long-term yield results

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

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

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

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

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

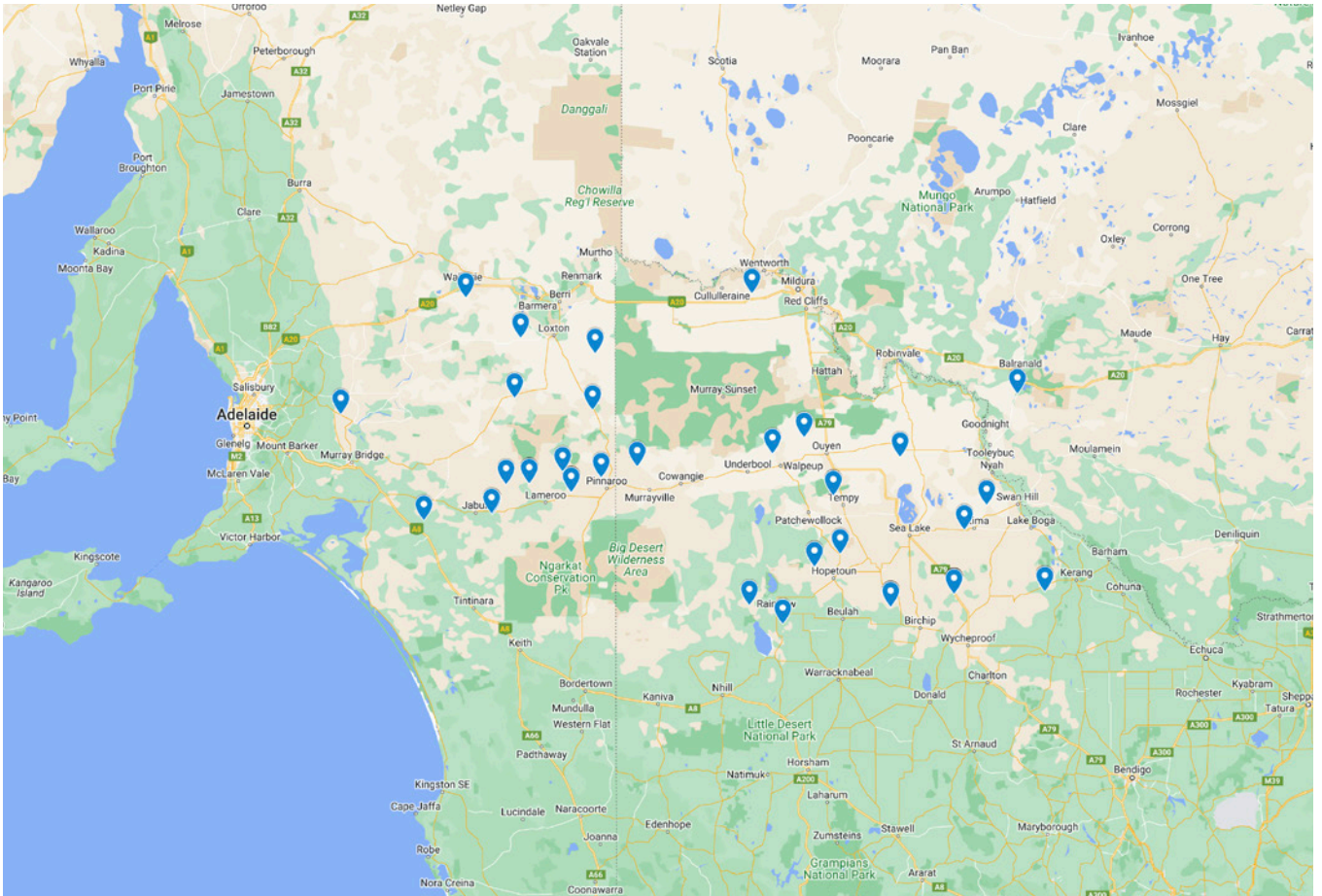
Trials listed as compromised are not suitable for making variety decisions. Results can be found in the [Quarantined trial reports](#).

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

# NVT SITE LOCATIONS – Mallee South Australia and Victoria

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

SOURCE: NVT Online



See all NVT trial locations and view trial results at [nvt.grdc.com.au/trial-results](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	Variety description not supplied.
Genie <sup>®</sup>	InterGrain		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		TBC	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		TBC	Variety description not supplied.
Soaker <sup>®</sup>	LongReach Plant Breeders		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		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 WA, 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 South Australia, 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.

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

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

## Wheat variety yield performance – Mallee South Australia and Victoria

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

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

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

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

Special thanks to 2023 trial cooperator, Jake Lockhart.

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

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

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

Special thanks to 2023 trial cooperator, David Slade, Arralka.

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

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

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

Special thanks to 2023 trial cooperator, Linc Lehmann.

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

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

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

Special thanks to 2023 trial cooperator, Devon Mill.

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEAS

LENTIL

LUPIN

**Table 5: Manangatang main season wheat.**

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

Special thanks to 2023 trial cooperator, Brad Plant.

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

**Table 6: Merrinee main season wheat.**

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

Special thanks to 2023 trial cooperator, Matt Curtis.

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

**Table 7: Nangari main season wheat.**

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

Special thanks to 2023 trial cooperator, Clinton Scholz.

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

**Table 8: Palmer main season wheat.**

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

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

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN



**Table 9: Pinnaroo main season wheat.**

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

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

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

**Table 10: Quambatook main season wheat.**

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

Special thanks to 2023 trial cooperator, Ash Marshall.

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

**Table 11: Ultima main season wheat.**

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

Special thanks to 2023 trial cooperator, Warrick Grey.

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

**Table 12: Walpeup main season wheat.**

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

Special thanks to 2023 trial cooperator, Mick Pole.

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

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**Table 13: Wanbi main season wheat.**

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

Special thanks to 2023 trial cooperator, Darren Eatts.

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

**Table 14: Wunkar main season wheat.**

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

Special thanks to 2023 trial cooperator, David Gibbs.

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

**Table 15: Birchip early season wheat.**

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

Special thanks to 2023 trial cooperator, Linc Lehmann.

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

**Table 16: Pinnaroo early season wheat.**

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

Special thanks to 2023 trial cooperator, Skeet Lawson.

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

WHEAT

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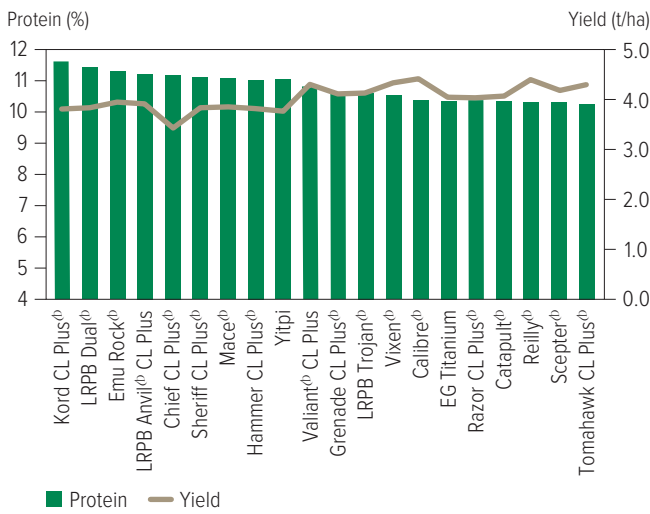
## Wheat variety quality – Mallee South Australia and Victoria

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

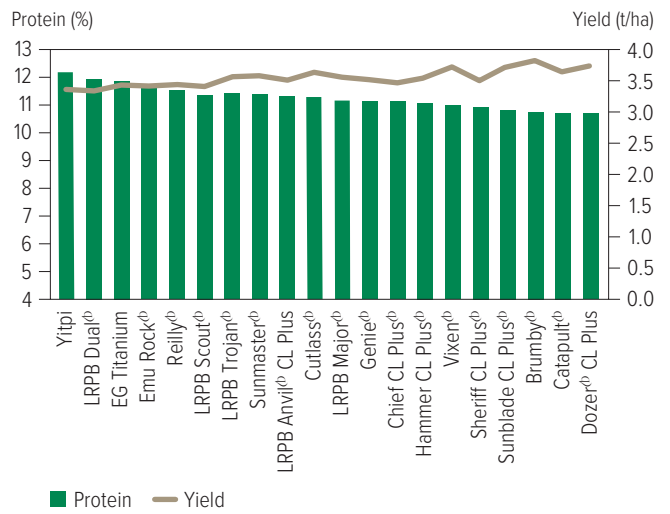
The following figures show the grain quality trends as histograms from 2022 and 2023 NVT averaged for trials in the Mallee South Australia and Victoria region. Only the varieties evaluated at every site are included. These are plotted in order of performance, up to a maximum of 20.

### Protein and yield comparisons

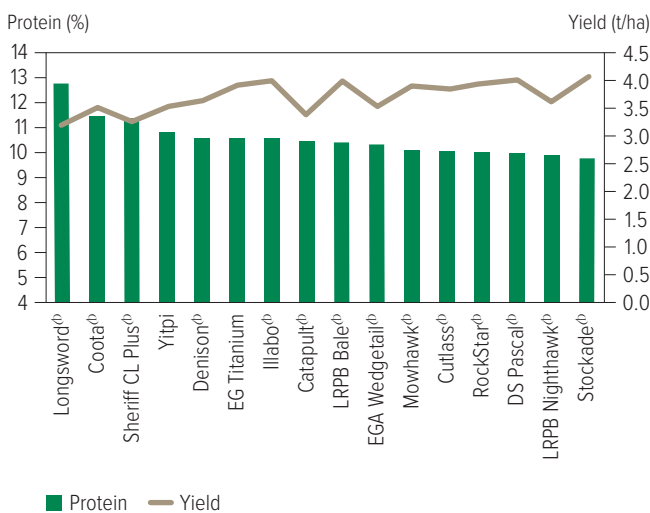
**Figure 1: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from 13 NVT sites in Mallee SA–Victoria in 2022.**



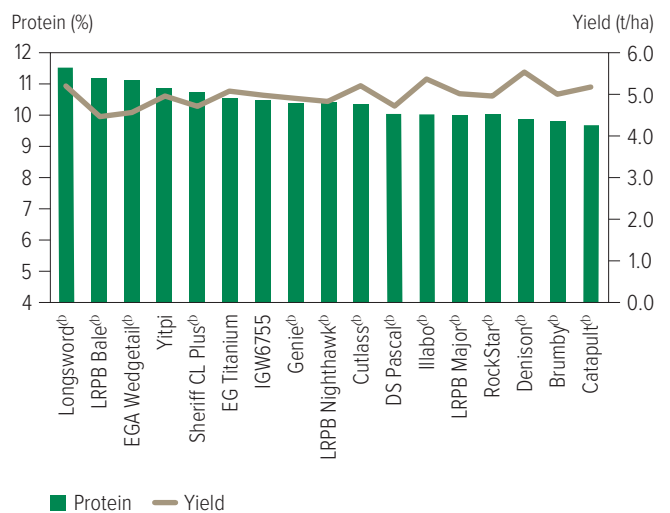
**Figure 2: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from 14 NVT sites in Mallee SA–Victoria in 2023.**



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



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



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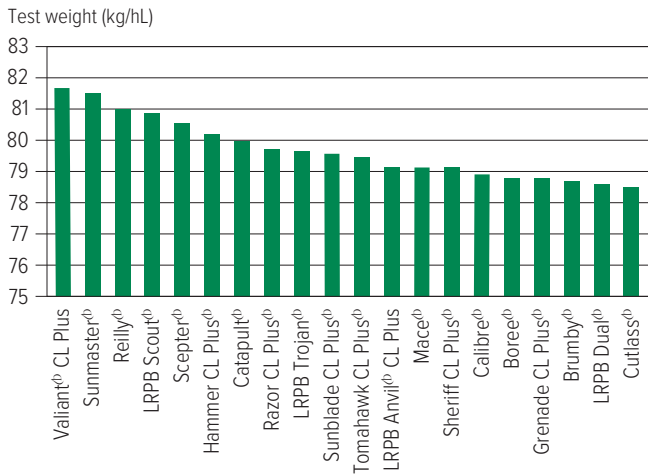
FIELD PEA

LENTIL

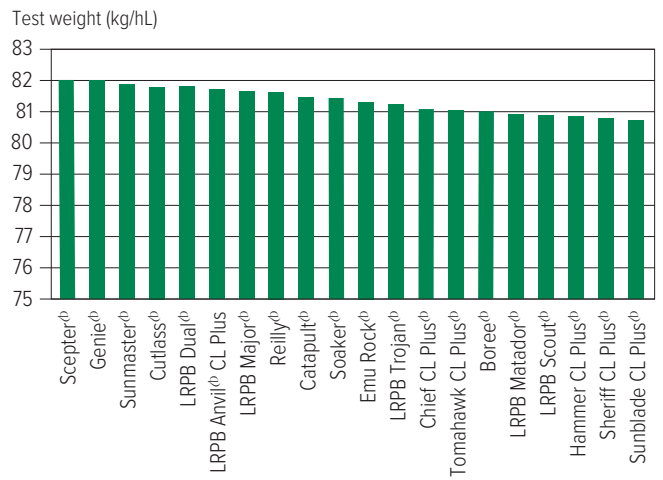
LUPIN

## Test weight comparisons

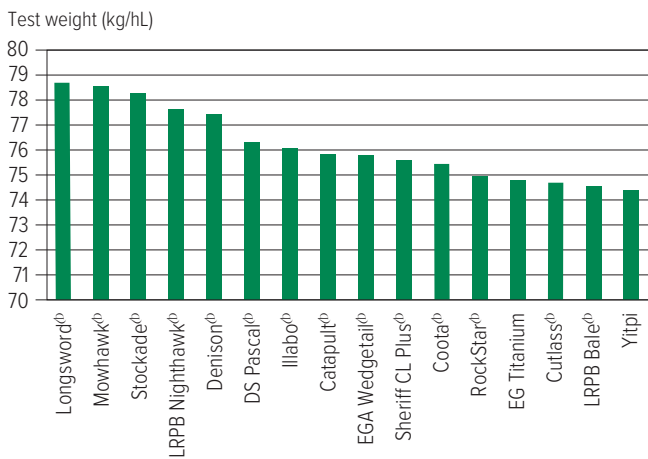
**Figure 5: Test weight (kg/hL) comparisons for main season wheat varieties from 13 NVT sites in Mallee SA–Victoria in 2022.**



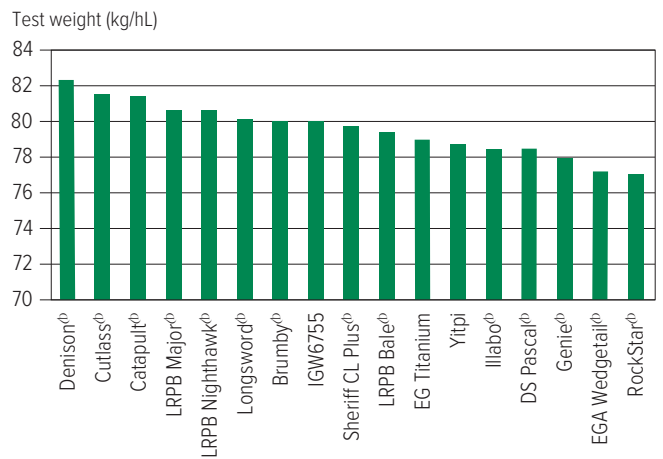
**Figure 6: Test weight (kg/hL) comparisons for main season wheat varieties from 14 NVT sites in Mallee SA–Victoria in 2023.**



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



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



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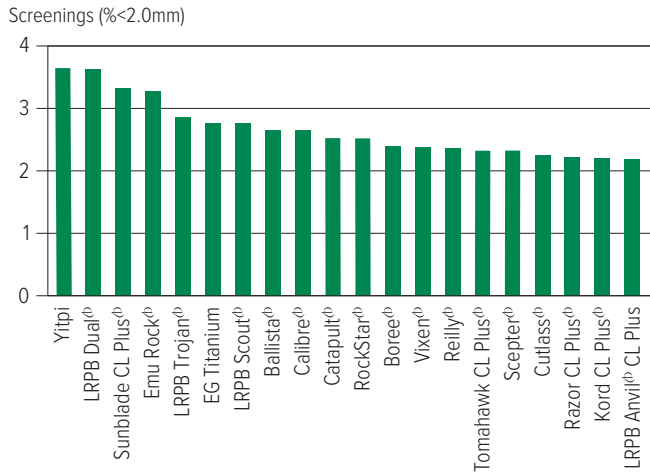
FIELD PEA

LENTIL

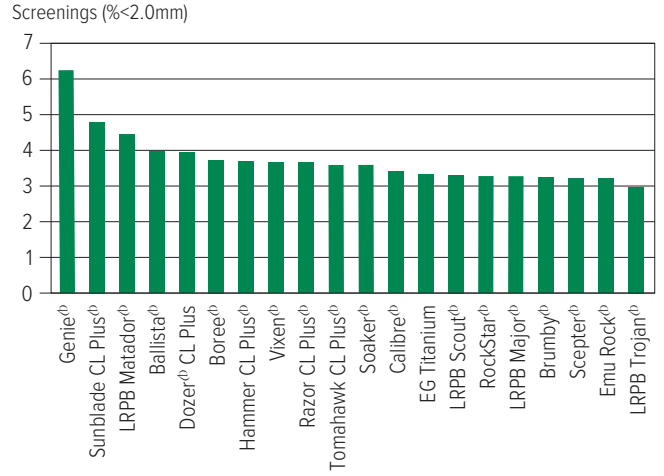
LUPIN

## Screenings comparisons

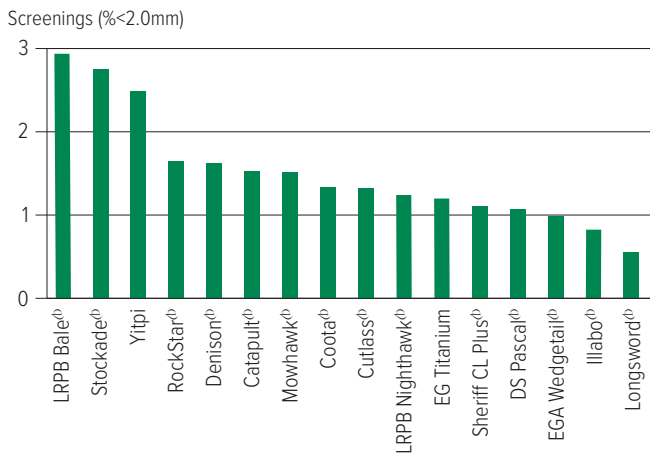
**Figure 9: Screenings (<2.0mm) comparisons for main season wheat varieties from 13 NVT sites in Mallee SA–Victoria in 2022.**



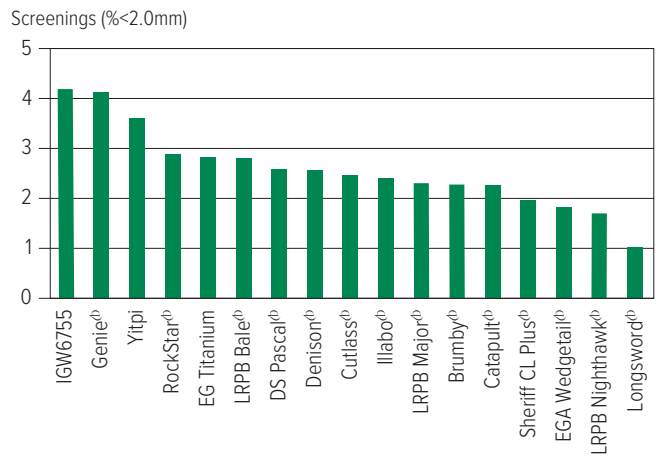
**Figure 10: Screenings (<2.0mm) comparisons for main season wheat varieties from 14 NVT sites in Mallee SA–Victoria in 2023.**



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



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



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## Wheat variety disease ratings – South Australia and Victoria

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

Table 17: Wheat disease guide for South Australia.

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

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

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

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WHEAT  
BARLEY  
OAT  
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LUPIN

Table 17: 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*
<b>DURUM</b>												
Caparoi <sup>Ⓛ</sup>	MR	MS	RMR	MRMS/S	MR	S	MS	MR	MRMS (P)		VS	
DBA Bindaroi <sup>Ⓛ</sup>	MR	MS	MR	MS	MS	MSS	MRMS	MR	MS		SVS	
DBA Lillaro <sup>Ⓛ</sup>	RMR	MS	RMR	S	MRMS	MS	MRMS	RMR	S		SVS	
DBA Mataroi <sup>Ⓛ</sup>	MRMS	MS	MR	MSS	MRMS	S	MS	RMR	MRMS		SVS	
DBA Spes	R	MS	RMR	S	MRMS	S	MRMS	RMR	MS		VS	
DBA Vittaroi <sup>Ⓛ</sup>	MR	MS	RMR	MSS	MRMS	MS	MS	MR	S		SVS	
DBA-Artemis <sup>Ⓛ</sup>	MR	MRMS	RMR	MRMS/S	MRMS	SVS	MS	MR	MS		SVS	
DBA-Aurora <sup>Ⓛ</sup>	RMR	MRMS	RMR	MRMS/S	MRMS	MSS	MRMS	RMR	MSS		SVS	
Patron <sup>Ⓛ</sup>	RMR	MRMS	MR#	MRMS	MRMS	MSS	MRMS	MR	S		SVS	
Westcourt <sup>Ⓛ</sup>	RMR	MR	RMR	S	MRMS	S	MS	MR	MSS		VS	

\* ratings will be updated when available. 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



Table 18: Wheat disease guide for Victoria.

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

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

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

WHEAT  
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CANOLA  
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FABA BEAN  
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LENTIL  
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Table 18: Wheat disease guide for Victoria (continued).

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

\* ratings will be updated when available. 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.

# 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

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)

## Barley variety yield performance – Mallee South Australia and Victoria

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

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

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

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

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

**Table 2: Cooke Plains main season barley.**

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

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

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

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

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

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

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

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

WHEAT  
BARLEY  
OAT  
CANOLA  
CHICKPEA  
FABA BEAN  
FIELD PEA  
LENTIL  
LUPIN

**Table 5: Murrayville main season barley.**

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

Special thanks to 2023 trial cooperator, Giles Oster.

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

**Table 6: Palmer main season barley.**

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

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

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

**Table 7: Paruna main season barley.**

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

Special thanks to 2023 trial cooperator, Bernie Lehmann.

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

**Table 8: Rainbow main season barley.**

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

Special thanks to 2023 trial cooperator, Brett Fisher.

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

**Table 9: Ultima main season barley.**

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

Special thanks to 2023 trial cooperator, Warrick Grey.

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

**Table 10: Walpeup main season barley.**

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

Special thanks to 2023 trial cooperator, Mick Pole.

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

## Barley variety quality – Mallee South Australia and Victoria

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

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

### Protein and yield comparisons

Figure 1: Protein (%) and yield (t/ha) comparisons for main season barley varieties from nine NVT sites in Mallee SA–Victoria in 2022.

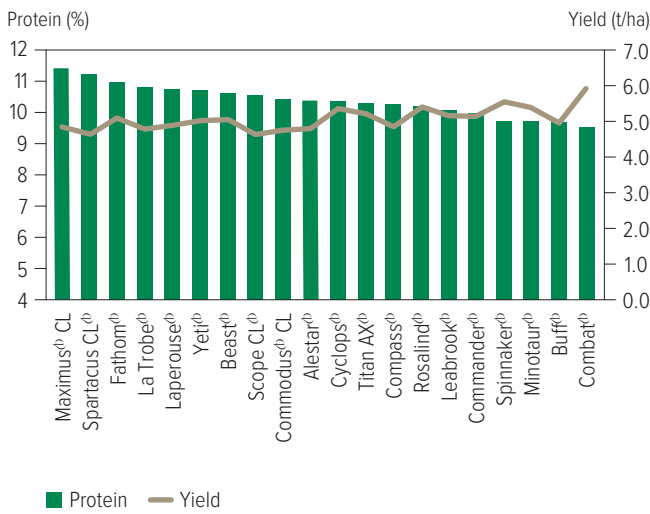
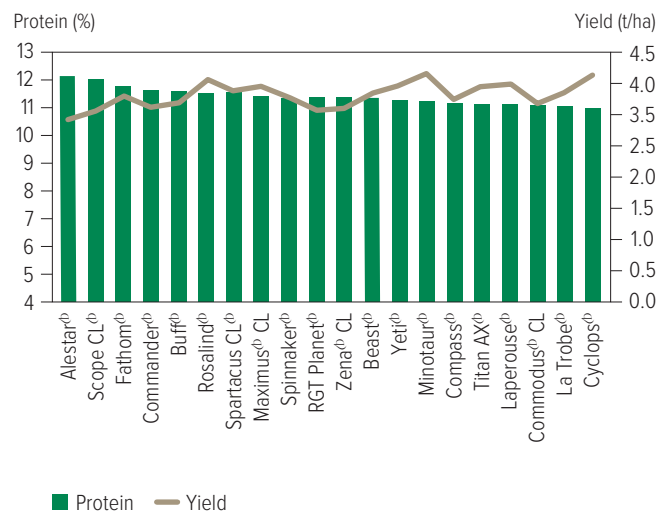


Figure 2: Protein (%) and yield (t/ha) comparisons for main season barley varieties from nine NVT sites in Mallee SA–Victoria in 2023.



### Test weight comparisons

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

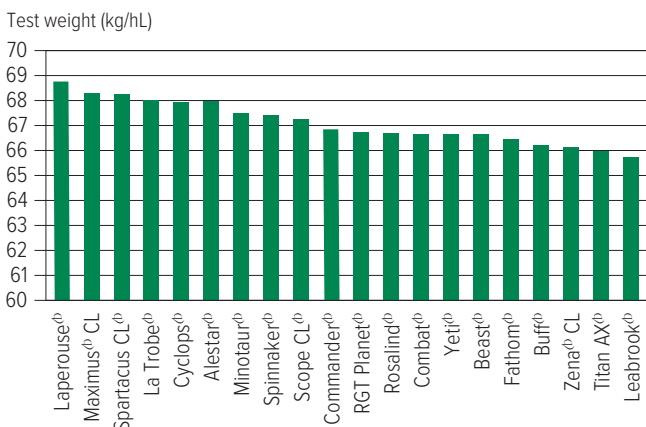
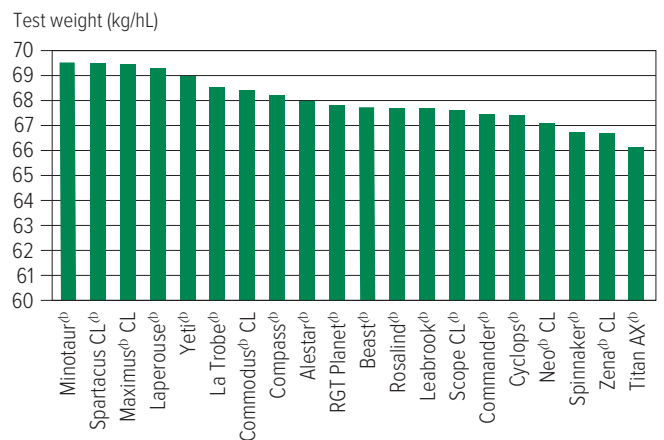


Figure 4: Test weight (kg/hL) comparisons for main season barley varieties from nine NVT sites in Mallee SA–Victoria in 2023.



WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

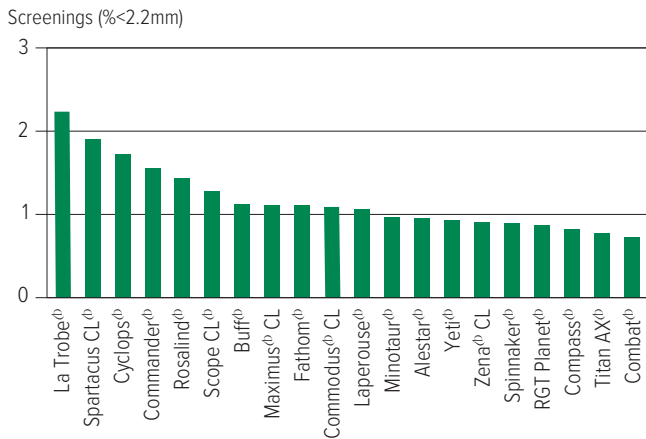
LENTIL

LUPIN

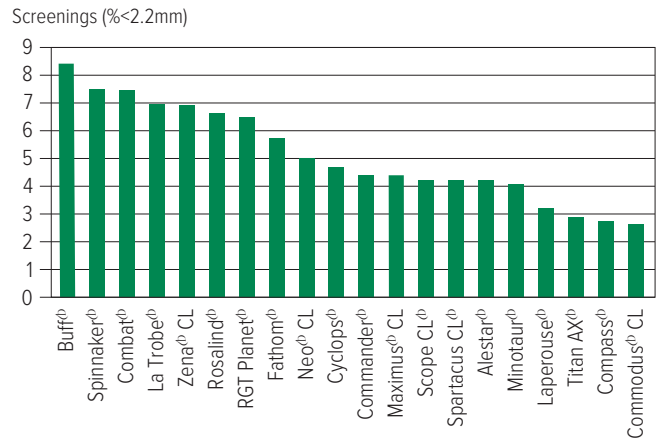


## Screenings comparisons

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

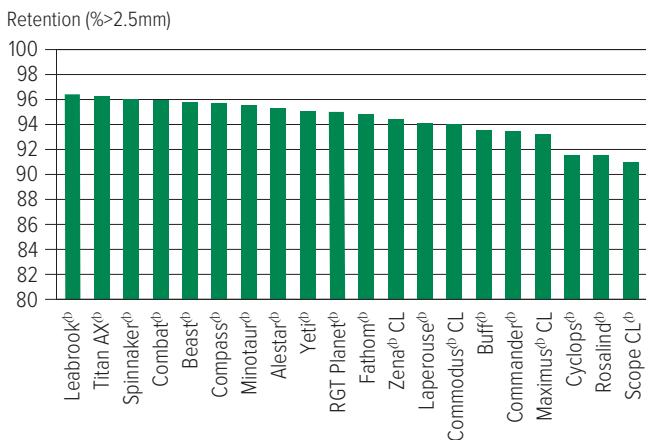


**Figure 6: Screenings (<2.2mm) comparisons for main season barley varieties from nine NVT sites in Mallee SA–Victoria in 2023.**

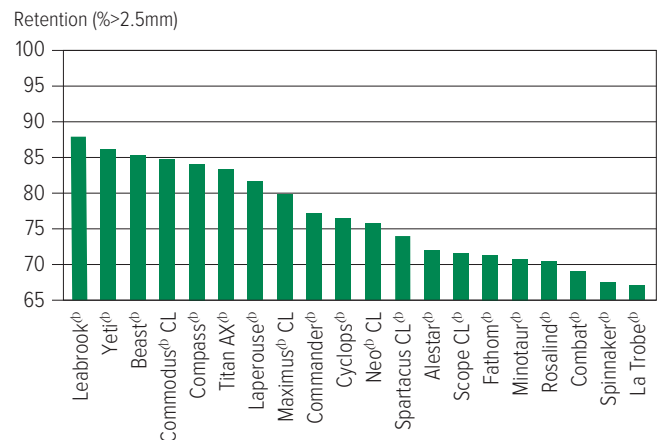


## Retention comparisons

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



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



WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

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 11: Barley disease guide for South Australia.**

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

\* ratings will be updated when available. 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, ^ line contains a few susceptible off types.

WHEAT  
BARLEY  
OAT  
CANOLA  
CHICKPEA  
FABA BEAN  
FIELD PEAS  
LENTIL  
LUPIN

Table 12: Barley disease guide for Victoria.

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

\* ratings will be updated when available. 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, ^ line contains a few susceptible off types.

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

# OAT

## New oat varieties

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

Variety	Breeding company	End point royalty* (\$)	Comments supplied by breeding company <sup>1</sup>
Archer <sup>Ⓛ</sup>	InterGrain	TBC	Variety description not supplied.
Kingbale <sup>Ⓛ</sup>	InterGrain	TBC	Variety description not supplied.
Kultarr <sup>Ⓛ</sup>	InterGrain	TBC	Variety description not supplied.
Wallaby <sup>Ⓛ</sup>	InterGrain	TBC	Variety description not supplied.

\* 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)

## Oat variety yield performance – Mallee South Australia and Victoria

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

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

Table 1: Waikerie oat.					
Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	0.63	2.71		3.68	1.55
Koala <sup>†</sup>	84	107	Compromised trial	132	107
13008-18				106	115
Bannister <sup>†</sup>	98	109		115	109
Williams <sup>†</sup>	89	107		106	110
Archer <sup>†*</sup>					118
Yallara <sup>†</sup>	110	104		97	89
Bilby <sup>†</sup>	109	101		91	104
Kultarr <sup>†</sup>					92
Kowari <sup>†</sup>	110	97		86	98
Wallaby <sup>†</sup>					92
<b>Sowing date</b>	<b>14 May</b>	<b>6 May</b>	<b>28 May</b>	<b>6 May</b>	<b>17 May</b>
<b>Rainfall J–M (mm)</b>	<b>10</b>	<b>93</b>	<b>19</b>	<b>28</b>	<b>19</b>
<b>Rainfall A–O (mm)</b>	<b>91</b>	<b>192</b>	<b>101</b>	<b>313</b>	<b>82</b>

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

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

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## Oat variety disease ratings – South Australia and Victoria

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

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

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

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

\* ratings will be updated when available. 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>			MSS (P)	MSS (P)		SVS (P)	MRMS (P)
Bannister <sup>db</sup>			S	MS	MR	MSS-SVS	MSS
Bilby <sup>db</sup>			SVS	S	S	MS	S
Brusher <sup>db</sup>			SVS	S	MR	MS	MSS
Carrolup			MSS	SVS	VS	SVS	MSS
Durack <sup>db</sup>			S	S	MRMS	SVS	S
Echidna			S	MSS	MS	MSS	SVS
Goldie <sup>db</sup>			S	MS	MR	SVS	MS
Kingbale <sup>db</sup>			MSS (P)	MS	R	S (P)	MSS
Koala <sup>db</sup>			S	MSS	R	S	MSS
Kojonup <sup>db</sup>			SVS	MS	VS	S	MSS
Kowari <sup>db</sup>			S	S	S	S	S
Kultarr <sup>db</sup>			MS (P)	MSS (P)		S (P)	MS (P)
Mitika <sup>db</sup>			S	SVS	VS	SVS	SVS
Mulgara <sup>db</sup>			MSS	MSS	R	SVS	S/MS
Tungoo <sup>db</sup>			S	MSS	MR	MRMS	MRMS#
Wallaby <sup>db</sup>			MSS (P)	MS (P)		SVS (P)	MS (P)
Wandering			S	MSS	VS	S	MSS
Williams <sup>db</sup>			MSS	MSS	S	MS	MSS
Wintaroo			S	MS	R	S	MS#
Yallara <sup>db</sup>			S	S	R	SVS	MSS

\* ratings will be updated when available. 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	TBC	Early, determinant, short TT open pollinated variety suited to low-medium rainfall zones.
Hyola® Continuum CL	Advanta Seeds	N/A	An early-mid maturity Clearfield® hybrid, Continuum CL provides wide environmental adaptability with excellent grain oil potential. It exhibits strong yields in target environments and demonstrates excellent adaptability to growing regions with a range of 1.0–5.5 t/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' 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		Variety description not supplied.
PY421C	Pioneer Hi-Bred Aust		Variety description not supplied.
PY422G	Pioneer Hi-Bred Aust		Variety description not supplied.
PY424GC	Pioneer Hi-Bred Aust		Variety description not supplied.

\* 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.

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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)



## Canola variety yield performance – Mallee South Australia and Victoria

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

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

**Table 1: Birchip low-med rainfall GLY.**

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

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

**Table 2: Hopetoun low-med rainfall GLY.**

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

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

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

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)				2.05	
InVigor® R 4520P	No trial	No trial	Trial failed	122	Trial failed
InVigor® LR 4540P				121	
Nuseed® Hunter TF				113	
InVigor® R 4022P				110	
Pioneer® 44Y27 (RR)				105	
Pioneer® 44Y30 RR				104	
Nuseed® Emu TF				102	
Nuseed® Raptor TF				95	
Hyola® Battalion XC				87	
DG Lofty TF				82	
<b>Sowing date</b>			<b>25 May</b>	<b>3 May</b>	<b>27 Apr</b>
<b>Rainfall J–M (mm)</b>			<b>52</b>	<b>30</b>	<b>36</b>
<b>Rainfall A–O (mm)</b>			<b>149</b>	<b>302</b>	<b>194</b>

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

**Table 4: Birchip low-med rainfall IMI.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.52	2.50		2.54	2.73
PY421C			Trial failed		115
Pioneer® 44Y94 CL				110	109
Pioneer® 44Y90 (CL)	110	103			
Hyola® Continuum CL				101	101
Saintly CL	101				
Hyola® 575CL	95				
Pioneer® 43Y92 (CL)	97	98		100	98
Nuseed® Ceres IMI				96	99
Hyola® Equinox CL				98	
Hyola® Solstice CL					95
<b>Sowing date</b>	<b>30 Apr</b>	<b>22 Apr</b>	<b>10 May</b>	<b>21 Apr</b>	<b>24 Apr</b>
<b>Rainfall J–M (mm)</b>	<b>14</b>	<b>101</b>	<b>25</b>	<b>60</b>	<b>23</b>
<b>Rainfall A–O (mm)</b>	<b>197</b>	<b>205</b>	<b>172</b>	<b>384</b>	<b>118</b>

Special thanks to 2023 trial cooperator, Linc Lehmann.

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

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

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Table 5: Hopetoun low-med rainfall IMI.

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

Special thanks to 2023 trial cooperator, Ross Brown.

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

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

Table 6: Lameroo low-med rainfall IMI.

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

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

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

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

Table 7: Birchip low-med rainfall TT.

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

Special thanks to 2023 trial cooperator, Linc Lehmann.

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

Table 8: Hopetoun low-med rainfall TT.

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

Special thanks to 2023 trial cooperator, Ross Brown.

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

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**Table 9: Lameroo low-med rainfall TT.**

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

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

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# CHICKPEA

## Chickpea variety yield performance – Mallee South Australia and Victoria

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

**Table 1: Birchchip desi chickpea.**

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

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

**Table 2: Rainbow desi chickpea.**

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

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

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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)

**Table 3: Birchchip kabuli chickpea.**

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

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

**Table 4: Rainbow kabuli chickpea.**

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

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

## Chickpea variety disease ratings – South Australia and Victoria

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

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

Variety	Ascochyta blight (pathogen group 1 – south)	Phytophthora root rot*	RLN resistance ( <i>Pratylenchus neglectus</i> )*	RLN resistance ( <i>Pratylenchus thornei</i> )*
<b>DESI</b>				
CBA Captain <sup>db</sup>	S			
Genesis™ 836	S			
Kyabra <sup>db</sup>	VS			
Neelam <sup>db</sup>	S			
PBA Boundary <sup>db</sup>	S			
PBA Drummond <sup>db</sup>	VS			
PBA HatTrick <sup>db</sup>	S			
PBA Maiden <sup>db</sup>	S			
PBA Pistol <sup>db</sup>	S			
PBA Seamer <sup>db</sup>	S			
PBA Slasher <sup>db</sup>	S			
PBA Striker <sup>db</sup>	S			
<b>KABULI</b>				
Almaz <sup>db</sup>	S			
Genesis™ 090	MS			
Genesis™ Kalkee	S			
PBA Magnus <sup>db</sup>	S			
PBA Monarch <sup>db</sup>	S			
PBA Royal <sup>db</sup>	MS			

\* ratings will be updated when available. 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.

WHEAT  
BARLEY  
OAT  
CANOLA  
CHICKPEA  
FABA BEAN  
FIELD PEA  
LENTIL  
LUPIN

# FABA BEAN

## Faba bean variety yield performance – Mallee South Australia and Victoria

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

**Table 1: Lameroo faba bean.**

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

Special thanks to 2023 trial cooperator, Andy Hunt.

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

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)



## Faba bean variety disease ratings – South Australia and Victoria

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

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

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

\* ratings will be updated when available. Learn more via the [NVT Disease Ratings](#).  
 R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, (P) = provisional rating.

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

# FIELD PEA

## New field pea varieties

The following information is for field pea varieties released in the 12 months to the date when the MET analysis was published on NVT online. Please go to [nvt.grdc.com.au](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 Kasper-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 Kasper 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 – Mallee South Australia and Victoria

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

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

**Table 1: Birchip field pea.**

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

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

**Table 2: Lameroo field pea.**

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

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

**Table 3: Ouyen field pea.**

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

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

**Table 4: Rainbow field pea.**

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

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

Table 5: Ultima field pea.

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

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

## Field pea variety disease ratings – South Australia and Victoria

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

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

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

\* ratings will be updated when available. 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>db</sup>	Agriculture Victoria	TBC	ALB Terrier <sup>db</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>db</sup> denotes Plant Breeder's Rights apply. <sup>1</sup> All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder.

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 – Mallee South Australia and Victoria

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

Table 1: Birchchip lentil.					
Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.43	2.21	2.79		
GIA Lightning <sup>(d)*</sup>		105	110	Trial failed	Compromised trial
GIA Thunder <sup>(d)*</sup>		111	106		
ALB Terrier <sup>(d)</sup>			102		
PBA Ace <sup>(d)</sup>	109	102	107		
GIA Leader <sup>(d)*</sup>	102	105	99		
PBA Hurricane XT <sup>(d)*</sup>	100	100	99		
PBA Jumbo2 <sup>(d)</sup>	99	99	99		
PBA Bolt <sup>(d)</sup>	99	92	102		
PBA HighlandXT <sup>(d)*</sup>	98	95	100		
PBA Hallmark XT <sup>(d)*</sup>	93	98	94		
<b>Sowing date</b>	<b>14 May</b>	<b>14 May</b>	<b>20 May</b>		
<b>Rainfall J–M (mm)</b>	<b>14</b>	<b>101</b>	<b>25</b>	<b>60</b>	<b>23</b>
<b>Rainfall A–O (mm)</b>	<b>197</b>	<b>205</b>	<b>172</b>	<b>384</b>	<b>118</b>

Special thanks to 2023 trial cooperator, Linc Lehmann.

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

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

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

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

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

Special thanks to 2023 trial cooperator, Scott Anderson.

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

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

Special thanks to 2023 trial cooperator, Brett Fisher.

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

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Table 5: Ultima lentil.

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

Special thanks to 2023 trial cooperator, Warrick Grey.

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

## Lentil variety disease ratings – South Australia and Victoria

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

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

Variety	Ascochyta blight (Pathotype 2 PBA Hurricane XT <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)		
GIA Leader <sup>db</sup>	MR (P)	MR (P)	MRMS (P)		
GIA Lightning <sup>db</sup>	MRMS (P)	R (P)	MS (P)		
GIA Metro <sup>db</sup>	RMR (P)	MR (P)	MRMS (P)		
GIA Sire <sup>db</sup>	MRMS (P)	R (P)	MS (P)		
GIA Thunder <sup>db</sup>	MRMS (P)	R (P)	MRMS (P)		
Nipper <sup>db</sup>	MR	MRMS	MRMS		
PBA Ace <sup>db</sup>	MR	R	MS		
PBA Bolt <sup>db</sup>	MRMS	MR	S		
PBA Hallmark XT <sup>db</sup>	MRMS	RMR	MRMS		
PBA HighlandXT <sup>db</sup>	MR (P)	MR	MS		
PBA Hurricane XT <sup>db</sup>	MRMS (P)	RMR	MS		
PBA Jumbo2 <sup>db</sup>	RMR	R	MR (P)		
PBA KelpieXT <sup>db</sup>	MRMS	MRMS	MS		

\* ratings will be updated when available. Learn more via the [NVT Disease Ratings](#).

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

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## 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	TBC	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	TBC	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.

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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)



## Lupin variety yield performance – Mallee South Australia and Victoria

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

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

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

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

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

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

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

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

**Table 3: Walpeup narrow-leaf lupin.**

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

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

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## Lupin variety disease ratings – South Australia and Victoria

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

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

Variety	Anthraxnose resistance	Cucumber mosaic virus (CMV)*	Phomopsis pod infection	Phomopsis stem infection	Sclerotinia stem rot
Coromup <sup>Ⓛ</sup>	MR		MS	MR	S (P)
Coyote <sup>Ⓛ</sup>	MRMS		MRMS	S	S (P)
Gidgee <sup>Ⓛ</sup>	RMR		S (P)	MR	S (P)
Jenabillup <sup>Ⓛ</sup>	MS		MR	MS	S (P)
Lawler <sup>Ⓛ</sup>	MR		MS	MR	S (P)
Mandelup <sup>Ⓛ</sup>	MRMS		S	MR	S (P)
PBA Barlock <sup>Ⓛ</sup>	RMR		MR	MR	S (P)
PBA Bateman <sup>Ⓛ</sup>	MRMS		MS	RMR	S (P)
PBA Gunyidi <sup>Ⓛ</sup>	MRMS		MRMS	RMR	S (P)
PBA Jurien <sup>Ⓛ</sup>	RMR		MRMS	RMR	S (P)
PBA Leeman <sup>Ⓛ</sup>	MRMS		MRMS	MR	S (P)
Rosemont <sup>Ⓛ</sup>	MRMS		MRMS (P)	MR	S (P)
Wonga	MR		MR	MR	S (P)

\* ratings will be updated when available. Learn more via the [NVT Disease Ratings](#).

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

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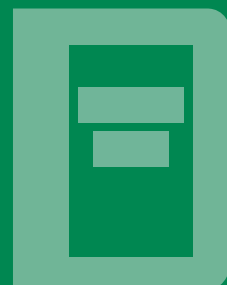
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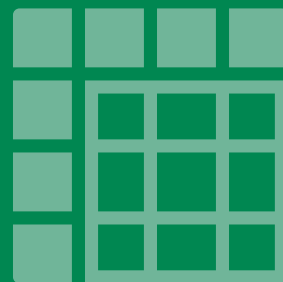
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