Wimmera and Upper South-East South Australia

May 2025

GRDC NATIONAL VARIETY TRIALS™

CELEBRATING 20 YEARS

NVT HARVEST REPORT

nvt.grdc.com.au

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

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

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Download this guide at:
nvt.grdc.com.au/harvest-reports

LEGEND: MEAN VARIETY YIELD PERFORMANCE

HIGH **LOW**

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

LEGEND: DISEASE RATING COLOUR RANGE

R	RMR	MR	MRMS	MS	MSS	S	SVS	VS

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

The disease ratings in the report are current at the time of publication.
Regularly visit nvt.grdc.com.au/nvt-disease-ratings to find the latest NVT disease ratings.

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

INTRODUCTION

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

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

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

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

Interpreting long-term yield results

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

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

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

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

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

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

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

NVT 20th anniversary

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

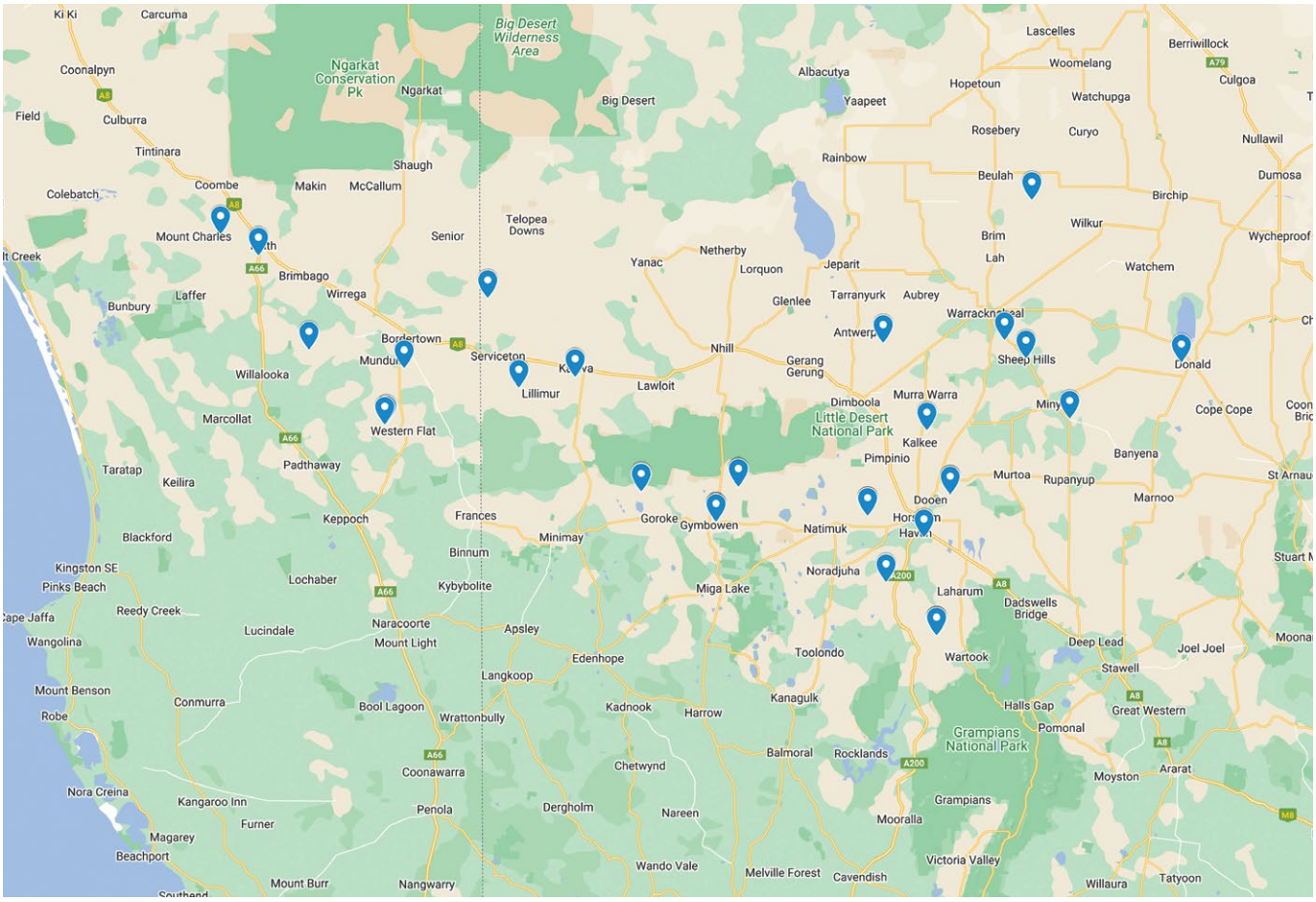
Established in 2005 by the Grains Research and Development Corporation (GRDC), the NVT program has evolved into the largest coordinated variety trial network in the world. Each year, more than 640 trials are conducted across over 300 locations nationwide, encompassing 10 different crop species. Over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

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

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

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

Figure 1: Locality of NVT trial sites in Wimmera and Upper South-East South Australia from 2020 to 2024.



SOURCE: National Variety Trials

See all NVT trial locations and view trial results at nvt.grdc.com.au/trial-results.

WHEAT

New wheat varieties

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

Variety	Breeding company	Grain classification – southern zone	End point royalty* ($)	Comments supplied by breeding company[1]
Boa(Φ)	LongReach Plant Breeders Pty Ltd	TBC	4.00	Boa(Φ) is an AH wheat combining the best attributes of the Scepter(Φ) x LRPB Cobra(Φ) parentage to deliver a shorter canopy wheat with an erect growth habit to suit high production and irrigation. Boa(Φ) has both acid and boron tolerance traits. **Maturity description:** quick-mid spring
Brighton(Φ)	Australian Grain Technologies Pty Ltd	TBC	4.10	Brighton(Φ) is a dual-purpose winter wheat suitable for grazing and grain production. It is a higher-yielding alternative to Illabo(Φ) and slightly quicker than Illabo(Φ). It has improved test weight compared with Illabo(Φ). **Maturity description:** quick winter
Ironbark(Φ)	Australian Grain Technologies Pty Ltd	TBC	3.90	Ironbark(Φ) is derived from Beckom(Φ) and is an excellent replacement for Beckom(Φ). It is similar in plant height and canopy to Beckom(Φ) and is very widely adapted, suited to most of southern NSW. It has improved yield and grain size compared with Beckom(Φ). It carries the major aluminium tolerance gene, which contributes to acid soil tolerance. **Maturity description:** mid spring
Lancelin(Φ)	Australian Grain Technologies Pty Ltd	TBC	3.70	Lancelin(Φ) has Australian Soft (ASFT) quality classification. It has high and stable yields in WA, similar to Scepter(Φ). It is similar to Scepter(Φ) with an excellent physical grain quality package, high test weights and low screenings. **Maturity description:** mid spring
LRPB Major(Φ)	LongReach Plant Breeders Pty Ltd	AH	4.00	LRBP Major(Φ) is suitable for early to mid-May seeding opportunities throughout southern NSW. It has strong yield performance in both acidic and sodic soil yield trials. Marketed by Pacific Seeds. **Maturity description:** mid-slow spring
LRPB Optimus(Φ)	LongReach Plant Breeders Pty Ltd	TBC	4.25	LRBP Optimus(Φ) has a similar plant type, yield build and grain receivals package to its LRPB Lancer(Φ) parent. Consistent high trial performance across a range of sowing times in NSW and Queensland, showing optimal yield performance when sown in the first half of May. It has strong acid and sodic soil tolerance. **Maturity description:** mid spring
Mammoth(Φ)	InterGrain Pty Ltd	APW	3.50	Mammoth(Φ)'s unique phenology makes it an excellent option for an early break scenario, from late March to mid-April. Unlike winter wheats that have similar maturity, Mammoth(Φ) does not have the same vernalisation requirement, allowing it to continue to develop using day length rather than needing low temperature to trigger flowering like winter varieties typically need. This attribute is advantageous in both high and low-rainfall regions as it allows Mammoth(Φ) to respond to seasonal conditions and minimise frost risk. Mammoth(Φ) is well suited to WA and SA and some areas in Victoria. **Maturity description:** very slow spring
RGT Ponsford(Φ)	RAGT	TBC	4.00	Variety description not supplied.

Continued on next page

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

Variety	Breeding company	Grain classification – southern zone	End point royalty* ($)	Comments supplied by breeding company[1]
Shotgun(Φ)	Australian Grain Technologies Pty Ltd	AH	3.90	Shotgun(Φ) is a Scepter(Φ) replacement with a significant yield advantage. It is agronomically very similar to Scepter(Φ). **Maturity description:** mid spring
Triple 2(Φ)	Australian Grain and Forage Seeds Pty Ltd	TBC	4.00	Triple 2(Φ) is an awned, high yield potential, red-grained winter feed wheat. Triple 2(Φ) has a wide sowing window and will complement existing longer-season winter wheats in sowing programs. It suits medium and high-rainfall zones. **Maturity description:** mid winter
Wallaroo(Φ)	Trigall Australia	TBC	4.00	Variety description not supplied.

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

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

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

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

Table 1: Brim main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	2.44	1.58	4.86	4.55	
Sunmaster(b)	APH		111	122	105	
Shotgun(b)					118	
Sunblade CL Plus(b)	AH	107	116	114	104	
Cutlass(b)	APW	110	105	120	97	
RockStar(b)	AH	111	114	105	105	
Ballista(b)	AH	104	119	104	108	
Brumby(b)	APW		114	100	109	
Boa(b)					108	No trial
Genie(b)	AH				97	
Calibre(b)	AH	104	124	96	110	
Beckom(b)	AH	100	105	109	104	
EG Jet(b)	APW	109	88	124	89	
RGT Ponsford(b)			102	103	107	
Valiant(b) CL Plus	AH	107	100	111	96	
LRPB Major(b)	AH			104	99	
Sowing date		**8 May**	**20 May**	**13 May**	**24 May**	
Rainfall J–M (mm)		**101**	**33**	**119**	**27**	
Rainfall A–O (mm)		**252**	**214**	**396**	**226**	

No 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 2: Horsham main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	4.01		6.46	3.34	
Shotgun(b)					120	
Tomahawk CL Plus(b)	APW			106	117	
Ballista(b)	AH	109		108	113	
Sunmaster(b)	APH			115	101	
Beckom(b)	AH	107		110	105	
Boa(b)					109	
Sunblade CL Plus(b)	AH	105	Compromised trial	110	106	Trial failed
Calibre(b)	AH	106		103	117	
Vixen(b)	AH	108		101	116	
LRPB Matador(b)	AH			101	114	
Dozer(b) CL Plus	APW				107	
Scepter(b)	AH	104		101	111	
Soaker(b)	APW				106	
LRPB Scout(b)	AH	103		103	100	
Boree(b)	AH	103		99	107	
Sowing date		**12 May**	**23 May**	**23 May**	**30 Jun**	**30 May**
Rainfall J–M (mm)		**77**	**58**	**111**	**31**	**84**
Rainfall A–O (mm)		**288**	**256**	**476**	**261**	**184**

Special thanks to 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 3: Kaniva main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	5.12		4.60	5.41	6.33
Shotgun(b)					119	112
RockStar(b)	AH	109		111	110	111
Boa(b)					111	109
RGT Ponsford(b)				108	110	108
Genie(b)	AH				105	107
Dozer(b) CL Plus	APW				112	107
Brumby(b)	APW		Compromised trial	104	108	108
LRPB Matador(b)	AH			95	114	109
Ballista(b)	AH	107		103	108	107
Calibre(b)	AH	105		98	110	109
Tomahawk CL Plus(b)	APW			92	114	107
Kingston(b)	AH	108		97	112	104
Sunblade CL Plus(b)	AH	105		111	101	104
Mowhawk(b)	APW					105
Boree(b)	AH	104		98	108	106
Sowing date		**15 May**	**22 May**	**21 May**	**22 May**	**30 May**
Rainfall J–M (mm)		**59**	**46**	**37**	**45**	**59**
Rainfall A–O (mm)		**350**	**323**	**375**	**265**	**199**

Special thanks to 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 4: Keith main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	5.18		6.28	3.91	
Shotgun(b)					112	
Tomahawk CL Plus(b)	APW			102	114	
Boa(b)					106	
Ballista(b)	AH	106		107	107	
RGT Zanzibar	FEED	98		126	86	
RGT Ponsford(b)				107	103	
Calibre(b)	AH	106	Compromised trial	102	110	Compromised trial
Sunmaster(b)	APH			113	104	
LRPB Matador(b)	AH			100	108	
Sunblade CL Plus(b)	AH	101		109	104	
Vixen(b)	AH	108		100	109	
RockStar(b)	AH	105		106	103	
Beckom(b)	AH	102		109	102	
Kingston(b)	AH			102	104	
Brumby(b)	APW			102	108	
Sowing date		**14 May**	**22 May**	**20 May**	**27 May**	**3 Jun**
Rainfall J–M (mm)		**74**	**65**	**67**	**31**	**59**
Rainfall A–O (mm)		**353**	**320**	**410**	**237**	**195**

Special thanks to 2024 trial cooperator, Makin Nominees.
Learn more via the NVT Long Term Yield Reporter

Table 5: Warracknabeal main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class					
		No trial	No trial	No trial	No trial	Compromised trial
Sowing date						**14 May**
Rainfall J–M (mm)						**83**
Rainfall A–O (mm)						**190**

Special thanks to 2024 trial cooperator.

Table 6: Minyip early season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	3.60		5.89		
LRPB Beaufort(Ф)	FEED	116	Compromised trial	127	Trial failed	No trial
Stockade(Ф)	APW			133		
Illabo(Ф)	AH	96		113		
Mowhawk(Ф)	APW			107		
EGA Wedgetail(Ф)	APW*	93		109		
LRPB Nighthawk(Ф)	APW	91		109		
RockStar(Ф)	AH	116		91		
DS Pascal(Ф)	APW	98		100		
Valiant(Ф) CL Plus	AH			94		
LRPB Bale(Ф)	APW			98		
EG Titanium(Ф)	AH	102		92		
Denison(Ф)	APW	102		87		
Cutlass(Ф)	APW	93		90		
Catapult(Ф)	AH	104		81		
Yitpi	AH	93		86		
Sowing date		**21 Apr**	**23 Apr**	**21 Apr**	**24 Apr**	
Rainfall J–M (mm)		**133**	**127**	**72**	**30**	
Rainfall A–O (mm)		**292**	**266**	**470**	**244**	

No 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 7: Kaniva durum wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	4.61	3.91	5.17	4.98	5.08
Patron(Ф)	ADR		117	116	104	111
DBA-Aurora(Ф)	ADR	112	105	101	102	103
Bitalli(Ф)	ADR	107	104	105	101	
Hyperno(Ф)	ADR	102	102	100	100	102
DBA Mataroi(Ф)	FEED		99	102	100	97
DBA Vittaroi(Ф)	ADR	105	98	95	100	98
Westcourt(Ф)	ADR	94	100	99	99	102
DBA Bindaroi(Ф)	FEED	93	93	92	98	95
Saintly	ADR	93	92	94	98	93
Caparoi(Ф)	ADR	91	94	89	98	98
Sowing date		**15 May**	**22 May**	**21 May**	**22 May**	**30 May**
Rainfall J–M (mm)		**59**	**46**	**37**	**45**	**59**
Rainfall A–O (mm)		**350**	**323**	**375**	**265**	**199**

Special thanks to 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

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

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

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

Protein and yield comparisons

Figure 1: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from four NVT sites in Wimmera and Upper SE SA in 2023.

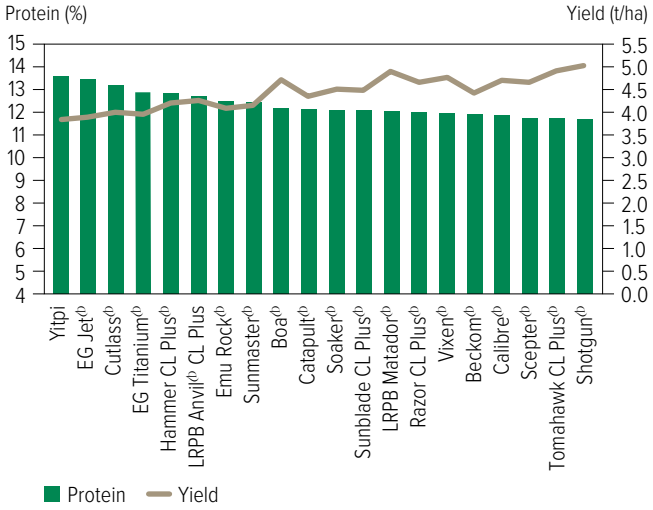


Figure 2: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from one NVT site in Wimmera and Upper SE SA in 2024.

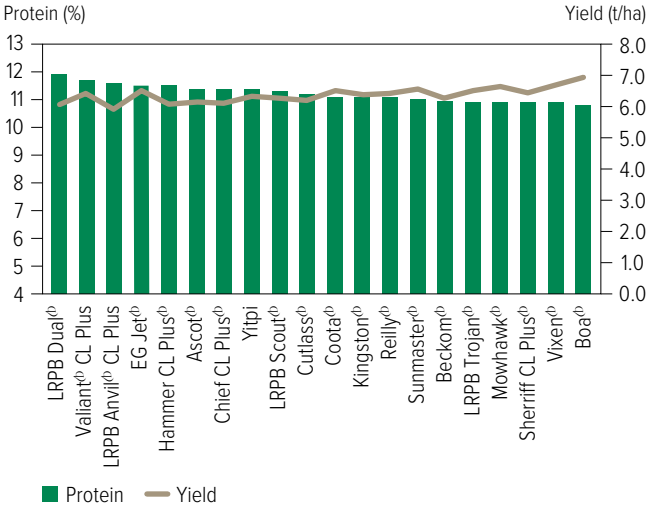


Figure 3: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from NVT sites in Wimmera and Upper SE SA in 2023.

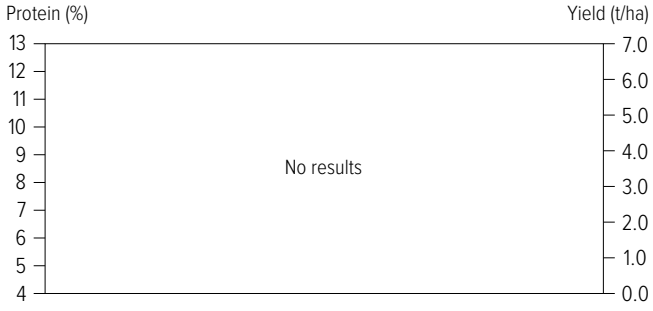


Figure 4: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from NVT sites in Wimmera and Upper SE SA in 2024.

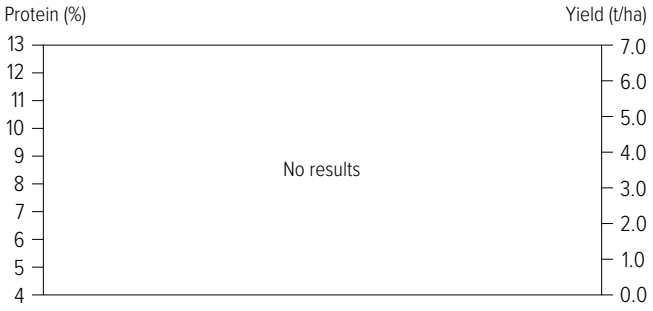


Figure 5: Protein (%) and yield (t/ha) comparisons for durum wheat varieties from one NVT site in Wimmera and Upper SE SA in 2023.

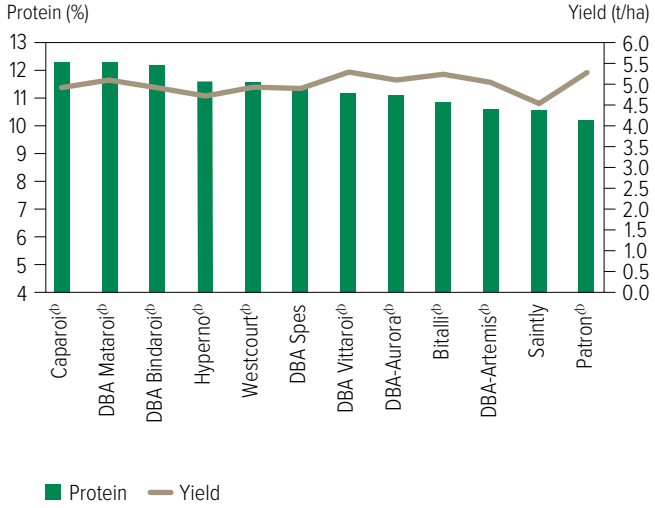
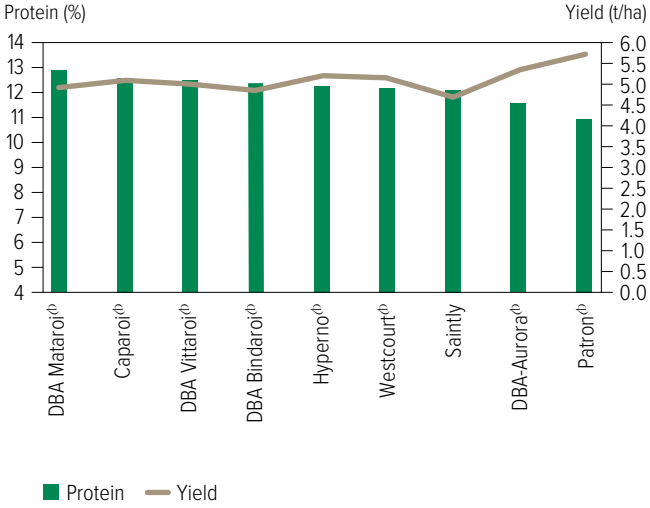


Figure 6: Protein (%) and yield (t/ha) comparisons for durum wheat varieties from one NVT site in Wimmera and Upper SE SA in 2024.



Test weight comparisons

Figure 7: Test weight (kg/hL) comparisons for main season wheat varieties from four NVT sites in Wimmera and Upper SE SA in 2023.

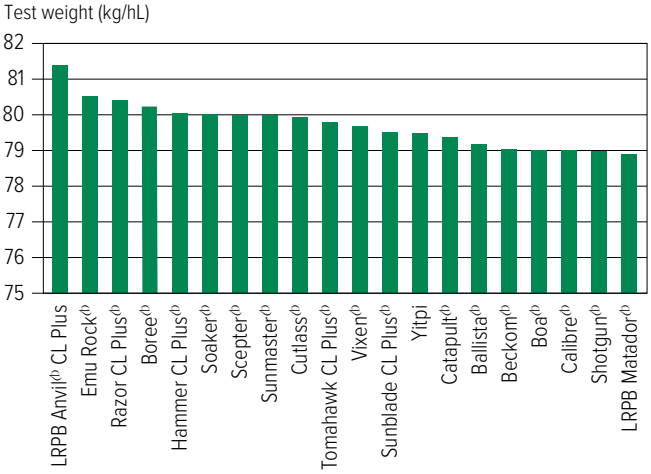


Figure 8: Test weight (kg/hL) comparisons for main season wheat varieties from one NVT site in Wimmera and Upper SE SA in 2024.

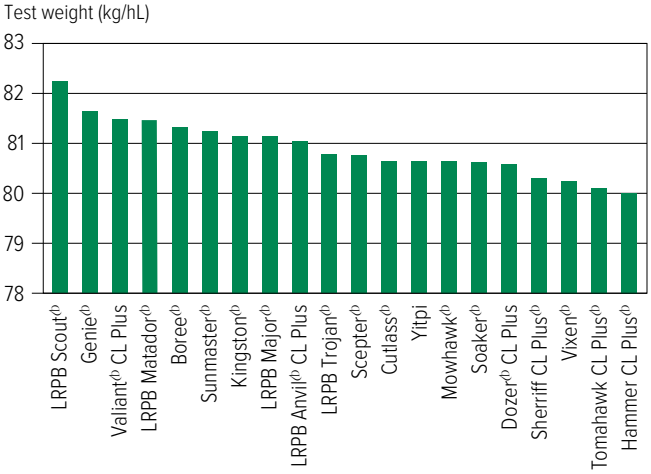


Figure 9: Test weight (kg/hL) comparisons for early season wheat varieties from NVT sites in Wimmera and Upper SE SA in 2023.

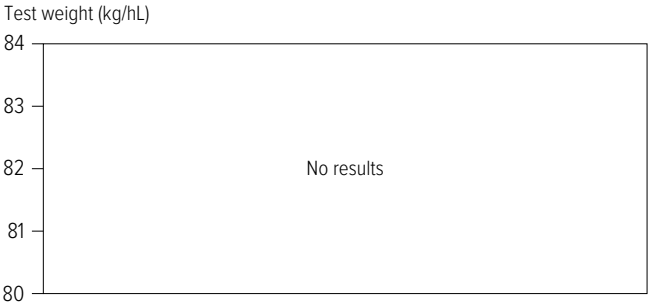


Figure 10: Test weight (kg/hL) comparisons for early season wheat varieties from NVT sites in Wimmera and Upper SE SA in 2024.

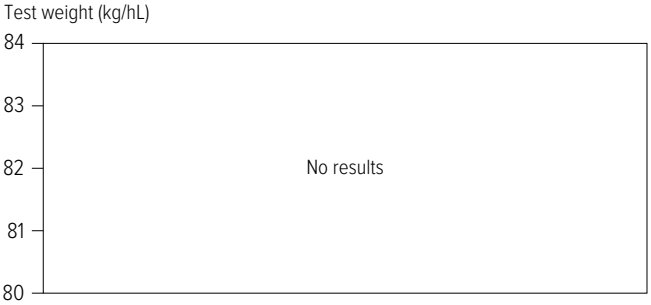


Figure 11: Test weight (kg/hL) comparisons for durum wheat varieties from one NVT site in Wimmera and Upper SE SA in 2023.

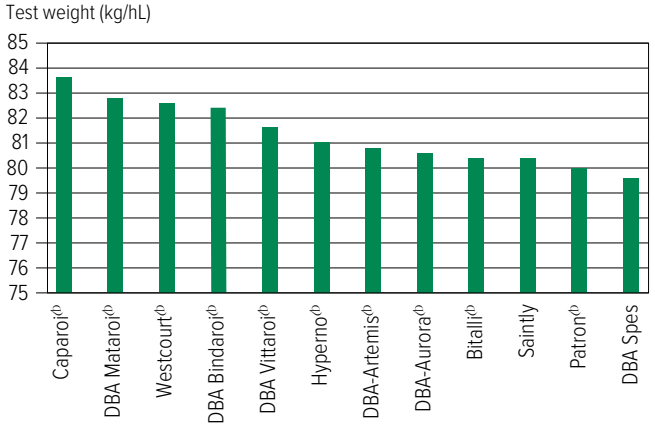
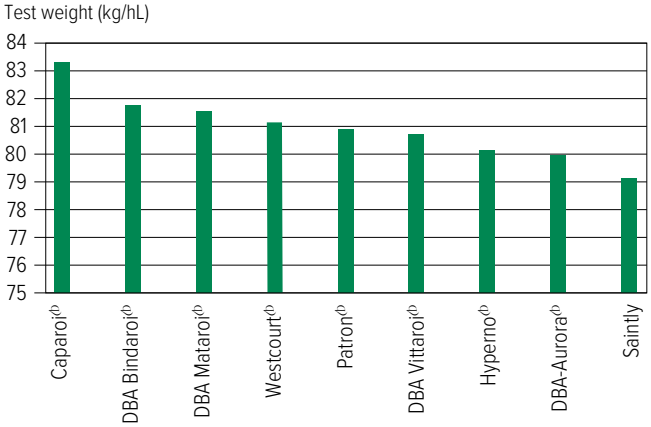


Figure 12: Test weight (kg/hL) comparisons for durum wheat varieties from one NVT site in Wimmera and Upper SE SA in 2024.



Screenings comparisons

Figure 13: Screenings (<2.0mm) comparisons for main season wheat varieties from four NVT sites in Wimmera and Upper SE SA in 2023.

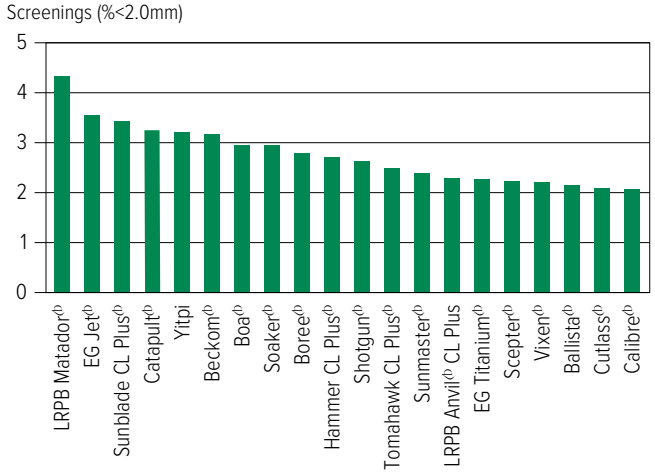


Figure 14: Screenings (<2.0mm) comparisons for main season wheat varieties from one NVT site in Wimmera and Upper SE SA in 2024.

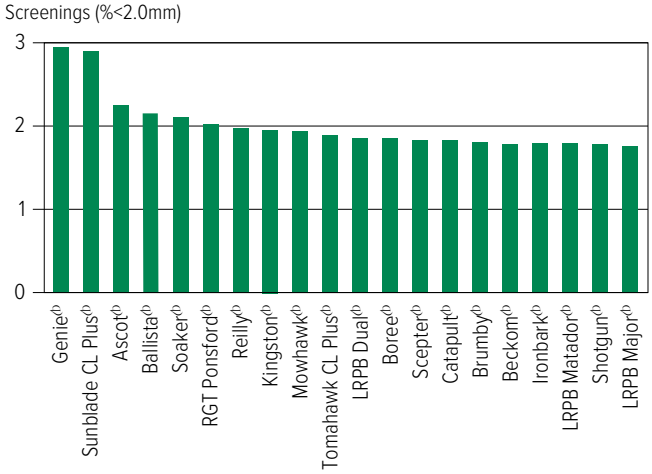


Figure 15: Screenings (<2.0mm) comparisons for early season wheat varieties from NVT sites in Wimmera and Upper SE SA in 2023.

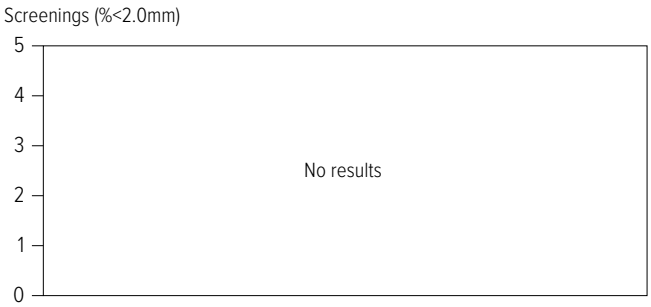


Figure 16: Screenings (<2.0mm) comparisons for early season wheat varieties from NVT sites in Wimmera and Upper SE SA in 2024.

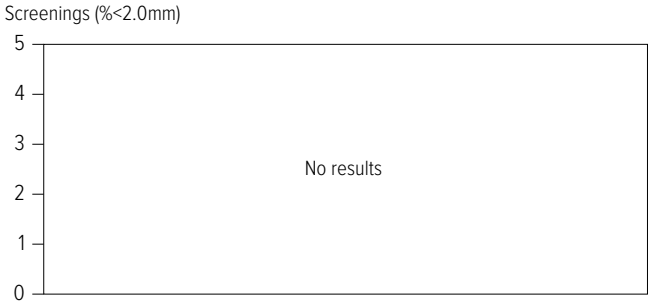


Figure 17: Screenings (<2.0mm) comparisons for durum wheat varieties from one NVT site in Wimmera and Upper SE SA in 2023.

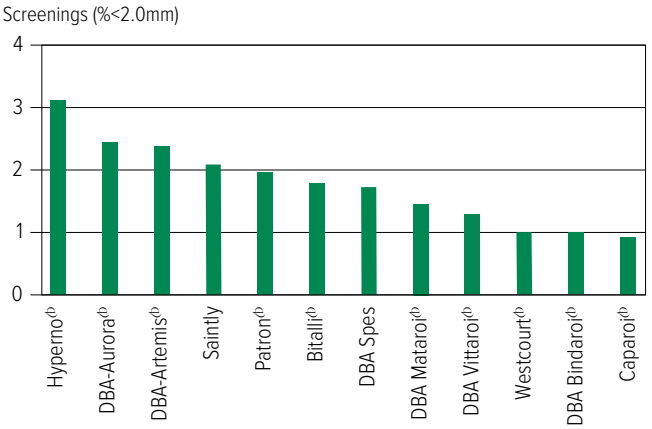
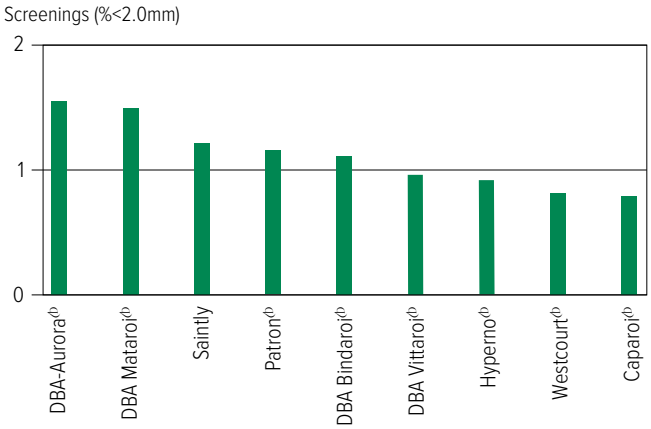


Figure 18: Screenings (<2.0mm) comparisons for durum wheat varieties from one NVT site in Wimmera and Upper SE SA in 2024.



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 2025.

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 8: 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 (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)	CCN	Eyespot	Crown rot	Black point
Anapurna	MSS	RMR	MS	MRMS	MRMS	RMR	MS	S (P)	MRMS		SVS	MSS
Ascot(ϕ)	MRMS	MSS	RMR	S	MRMS	S	S	S	MR	S	S	S
Avoca(ϕ)	MRMS	MRMS	MSS	MSS	MSS	MS	R (P)	MSS	S (P)	S (P)	MSS (P)	MRMS (P)
Ballista(ϕ)	MR	MSS	S	SVS	MS	SVS	S	MRMS	MRMS	S	S	MS
Beckom(ϕ)	MRMS	MRMS	MSS	S	MSS	S	S	MSS	R		S	MRMS
BigRed(ϕ)	S	RMR	MRMS	MR	MR	RMR	MRMS	MS	S		MSS	MR
Boa(ϕ)	MS	MRMS	MR	S	MRMS	S	S	VS	R (P)	S (P)	MSS (P)	S (P)
Boree(ϕ)	MR	SVS	S	SVS	MRMS	SVS	S	MSS	MSS		S	S
Brighton(ϕ)	MRMS	MRMS	S	S	MRMS	SVS	S	MS	R	MSS	S	MS
Brumby(ϕ)	MR	MS	SVS	S	MRMS	MSS	MRMS	MS	MRMS	S	S	MSS
Calibre(ϕ)	MR	S	S	S	MRMS	MSS	S	MSS	MRMS	S	S	MSS
Catapult(ϕ)	MR	S	S	MSS	MRMS	S	S	MS	R	S	MSS	S
Chief CL Plus(ϕ)	MR	SVS	MR	S	MRMS	SVS	MRMS	MSS	MS	MSS	MSS	MS
Coolah(ϕ)	MR	MSS	RMR	MSS	MSS	MSS	S	MS	S		MSS	S
Coota(ϕ)	RMR	S	MR	S	MSS	S	MR	MS	MR	S	MSS	MS
Cutlass(ϕ)	R	MSS	RMR	MSS	MSS	MSS	MSS	MSS	MR		S	MS
Denison(ϕ)	MS	S	S	MSS	MRMS	S	S	S	MS	S	MSS	MS
Devil(ϕ)	S	SVS	SVS	SVS	MRMS	S	MSS	S	MSS	S	MSS	MSS
Dozer(ϕ) CL Plus	MS	S	S	S	MRMS	S	MRMS	S	MS	SVS	S	MRMS
DS Bennett(ϕ)	MS	S	SVS	MSS	MRMS	R	S	S	S		VS	MSS
DS Pascal(ϕ)	MSS	MRMS	MRMS	MSS	MS	RMR	S	S	S		S	MS
EG Jet(ϕ)	S	MRMS	MSS	MSS	MRMS	SVS	S	S	MRMS		S	MS
EG Titanium(ϕ)	MS	MR	MS	MSS	MSS	S	MSS	MSS	R	S	MSS	MSS
EGA Wedgetail(ϕ)	MRMS	MS	MSS	MSS	MSS	MSS (P)	S	VS	S		S	MS
Genie(ϕ)	MRMS	MSS	S	S	MRMS (P)	SVS	MS (P)	MRMS	MSS (P)	S (P)	MS (P)	MS
Hammer CL Plus(ϕ)	MR	MS	S	MSS	MRMS	S	MSS	S	MRMS	S	MSS	MRMS
Illabo(ϕ)	MR	MRMS	S	MSS	MS	RMR	MSS	MSS	MRMS	S	S	MRMS
Ironbark(ϕ)	MS	MR	MRMS	S	MSS	S	S	MR (P)	MS (P)	S (P)	MSS (P)	
Jillaroo(ϕ)	MS	S	S	S	MS	SVS	S	MS (P)	MS	S	S	MS
Kingston(ϕ)	S	MSS	S	S	MSS	S	S	MR	R	S	S	MSS
Lancelin(ϕ)	MRMS	MSS	MSS	SVS	MRMS	S	SVS	MS	MRMS	S	S	MSS (P)
Longford(ϕ)	RMR	RMR	RMR	MRMS/S	MRMS	RMR	S	S	MS	MSS (P)	MSS	MRMS
Longsword(ϕ)	MR	MRMS/MS	MSS	MS	MRMS	S	MRMS	MRMS	MRMS	S	MSS	MS
LRPB Anvil(ϕ) CL Plus	MR	S	SVS	VS	MSS	SVS	MSS	S	MS	S	MSS	S
LRPB Avenger(ϕ)	MS	S	SVS	S	MS	SVS	MSS	MRMS	MRMS	S	S	MRMS
LRPB Bale(ϕ)	MRMS	MRMS	MSS	MSS	SVS	MRMS	S	S	R	S	S	MS
LRPB Beaufort(ϕ)	SVS	RMR	MSS	S	MRMS	R (P)	MS	MSS	MS		S	MRMS

Continued on next page

Table 8: 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 (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)	CCN	Eyespot	Crown rot	Black point
LRPB Dual(Ф)	MRMS	MS	MSS	MSS	S	S	MSS	MSS	R	S	S	S
LRPB Impala(Ф)	MR	MRMS	SVS	SVS	MSS	MR	SVS	S	MSS		MSS	MS
LRPB Kittyhawk(Ф)	MRMS	MR	MR	MRMS	MRMS	MS	S	S	S	S	SVS	MRMS
LRPB Major(Ф)	MRMS	MRMS	MR	MSS	MS	MSS	S	MSS	MRMS	S	MSS	MSS
LRPB Matador(Ф)	MS	MS	MSS	S	MRMS	MSS	S	MS	MS (P)	S (P)	S	MRMS (P)
LRPB Nighthawk(Ф)	RMR	MR	MS	MS	MS	SVS	MSS	MS	MS		MSS	MS
LRPB Optimus(Ф)	MR	MRMS	RMR	S	MSS	MSS	MSS	MS	MS	S	MSS	MS
LRPB Oryx(Ф)	MR	MRMS	RMR#	SVS	MSS	MR	MSS	MSS	S	S	MSS	MS
LRPB Raider(Ф)	RMR	MR	RMR	S	MSS	S	MSS	MS	S		S	MSS
LRPB Scotch(Ф)	MSS	MRMS	MR#	S	MRMS	MR	MS	S	MS	S	S	MS
LRPB Scout(Ф)	MRMS	MS	MS	S	SVS	S	S	MSS	R		S	S
LRPB Trojan(Ф)	MRMS	S	MR	S	MSS	S	MSS	MSS	MS	MS	MS	MS
Mace(Ф)	MRMS	SVS	S	SVS	MRMS	MSS	MS	MS	MRMS	S	S	MRMS
Mammoth(Ф)	MR	MSS	MRMS	MSS	MRMS	SVS	MSS	MRMS	MSS	MSS	S	MS
Manning(Ф)	MR	MR	MSS	MRMS/S	MRMS	MRMS	MSS	S	S	MS (P)	VS	S
Mowhawk(Ф)	RMR (P)		MR (P)	MSS (P)	MRMS (P)	MR				MSS (P)		
Naparoo(Ф)	MRMS	MRMS	MS	S	MRMS	MR (P)	SVS	S			S	
Packer(Ф)	MR	MRMS	MR	MSS	MS	MSS	S	S	R (P)	S (P)	MS (P)	S (P)
Razor CL Plus(Ф)	MRMS	MRMS	S	SVS	MSS	MSS	S	MS	MR	S	S	MS
Reilly(Ф)	MRMS	MS	MSS	S	S	MSS	MS	MSS	R	S	S	MSS
RGT Accroc(Ф)	MRMS	MRMS	S	MS	MRMS	MRMS	MS	MSS	S	MSS (P)	SVS	MRMS
RGT Calabro	MS	MRMS	MS	MRMS	MR	RMR	S	MS	S		SVS	MS
RGT Cesario(Ф)	RMR	MRMS	RMR	MRMS	MR	RMR	MRMS	MSS	MSS (P)		VS	R (P)
RGT Ponsford(Ф)	RMR	MS	MR	MSS	MS	MSS	MSS	S	MRMS	S	MSS	S
RGT Waugh(Ф)	MS	MR	S	MRMS#	MRMS	RMR	MSS	MSS	MS		S	MRMS
RGT Zanzibar	VS	RMR	SVS	MSS	MS	RMR	S	MS (P)	MSS		S	MRMS
RockStar(Ф)	MRMS	S	S	S	MRMS	SVS	MRMS	MS	MSS	S	S	MSS
Scepter(Ф)	MRMS	S	MSS	S	MRMS	SVS	S	MSS	MRMS	S	MSS	MS
Severn(Ф)	MRMS	MR	MR	MSS	MRMS	RMR	S	MRMS	MSS (P)		S	MR
Sheriff CL Plus(Ф)	MS	SVS	SVS	S	MRMS	SVS	MRMS	MS	MS	S	S	MS
Shotgun(Ф)	MRMS	MSS	MSS	S (P)	MRMS	S	MS (P)	MRMS	R (P)	S (P)	MS (P)	S (P)
Soaker(Ф)	MRMS	S	MSS	S	MRMS	S	S	S	MRMS (P)	S (P)	MS (P)	
Stockade(Ф)	MS	MR	MR	MS	MRMS	SVS	S	MSS	MRMS	MSS (P)	S	MRMS
Sunblade CL Plus(Ф)	MS	MRMS	MSS	S	MSS	S	MSS	MRMS	MSS		S	MRMS
Sunflex(Ф)	MR	MRMS	RMR	SVS	MS	S	S	MSS	MS		MSS	MSS
Sunmaster(Ф)	MS	MRMS	RMR	S	MSS	S	MRMS	MS	MSS		MSS	MR
Tomahawk CL Plus(Ф)	MR	S	S	S	MRMS	SVS	S	MS	MRMS	S	MSS	S
Triple 2(Ф)	MR (P)	RMR (P)	MRMS	MR	MR (P)	MRMS	R (P)	MR	MS (P)		MRMS (P)	S (P)
Valiant(Ф) CL Plus	MRMS	S	S	MSS	MRMS	VS	S	S (P)	MSS (P)	MSS	MSS	MRMS
Vixen(Ф)	MRMS	SVS	SVS	S	MRMS	SVS	MRMS	MS	MSS	S	S	MSS
Wallaroo(Ф)	RMR	RMR	RMR	MSS	MRMS	S	MS	MRMS	R	S	MSS	MS
Willaura(Ф)	MR	S	MRMS	S	MS	SVS	MSS	MRMS	MS	MSS (P)	S	MRMS
Yitpi	S	MS	MSS	S	SVS	MS	MSS	S	MR		S	MS
Zen(Ф)	S (MRMS)	S	S	S	MRMS	MSS	MRMS	S	S		S	MRMS

Continued on next page

Table 8: 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 (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)	CCN	Eyespot	Crown rot	Black point
DURUM												
Bitalli(Φ)	RMR	MRMS	MR	MSS	MRMS	S	MSS	RMR	MSS		SVS	MS
Caparoi(Φ)	MR	MRMS	RMR	MRMS/S	MRMS	S	MS	MR	MRMS (P)		VS	MSS
DBA Bindaroi(Φ)	MR	MRMS	RMR	MS	MS	S	MRMS	MR	MS		SVS	MRMS
DBA Lillaroi(Φ)	RMR	MRMS	RMR	S	MRMS	S	MRMS	RMR	S		SVS	MS
DBA Mataroi(Φ)	MRMS	MRMS	MR	MSS	MRMS	S	MS	RMR	MRMS		SVS	MS
DBA Vittaroi(Φ)	MR	MRMS	RMR	MSS	MRMS	MSS	MS	MR	S		SVS	MSS
DBA-Aurora(Φ)	RMR	MR	RMR	MRMS/S	MRMS	MSS	MRMS	RMR	MSS		SVS	MS
Hyperno(Φ)	RMR	MRMS	RMR	MS	MRMS	MSS	MS	RMR	MS		SVS	MS
Jandaroi(Φ)	MRMS (R)	MRMS	RMR	MSS	MRMS	S (P)	MS	MRMS	MS		VS	MS
Patron(Φ)	RMR	MRMS	RMR	MRMS	MRMS	S	MRMS	MR	S		SVS	MSS
Saintly	MS	MRMS	RMR	MRMS/S	MRMS	S (P)	MS	RMR	MS		VS (P)	MS
Westcourt(Φ)	RMR	MR	RMR	S	MRMS	MSS	MS	MR	MSS		VS	MSS

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

Table 9: Wheat disease guide for Victoria.

Variety	Stem rust	Stripe rust (east coast resistance)	Leaf rust	*Septoria tritici* blotch	Yellow leaf spot	Powdery mildew	Crown rot	CCN	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)
Anapurna	MSS	RMR	MS	MRMS	MRMS	RMR	SVS	MRMS	MS	S (P)
Ascot(ϕ)	MRMS	MSS	RMR	S	MRMS	S	S	MR	S	S
Avoca(ϕ)	MRMS	MRMS	MSS	MSS	MSS	MS	MSS (P)	S (P)	R (P)	MSS
Ballista(ϕ)	MR	MSS	S	SVS	MS	SVS	S	MRMS	S	MRMS
Beckom(ϕ)	MRMS	MRMS	MSS	S	MSS	S	S	R	S	MSS
BigRed(ϕ)	S	RMR	MRMS	MR	MR	RMR	MSS	S	MRMS	MS
Boa(ϕ)	MS	MRMS	MR	S	MRMS	S	MSS (P)	R (P)	S	VS
Boree(ϕ)	MR	SVS	S	SVS	MRMS	SVS	S	MSS	S	MSS
Brighton(ϕ)	MRMS	MRMS	S	S	MRMS	SVS	S	R	S	MS
Brumby(ϕ)	MR	MS	SVS	S	MRMS	MSS	S	MRMS	MRMS	MS
Calibre(ϕ)	MR	S	S	S	MRMS	MSS	S	MRMS	S	MSS
Catapult(ϕ)	MR	S	S	MSS	MRMS	S	MSS	R	S	MS
Chief CL Plus(ϕ)	MR	SVS	MR	S	MRMS	SVS	MSS	MS	MRMS	MSS
Coolah(ϕ)	MR	MSS	RMR	MSS	MSS	MSS	MSS	S	S	MS
Coota(ϕ)	RMR	S	MR	S	MSS	S	MSS	MR	MR	MS
Cutlass(ϕ)	R	MSS	RMR	MSS	MSS	MSS	S	MR	MSS	MSS
Denison(ϕ)	MS	S	S	MSS	MRMS	S	MSS	MS	S	S
Dozer(ϕ) CL Plus	MS	S	S	S	MRMS	S	S	MS	MRMS	S
DS Bennett(ϕ)	MS	S	SVS	MSS	MRMS	R	VS	S	S	S
DS Pascal(ϕ)	MSS	MRMS	MRMS	MSS	MS	RMR	S	S	S	S
EG Jet(ϕ)	S	MRMS	MSS	MSS	MRMS	SVS	S	MRMS	S	S
EG Titanium(ϕ)	MS	MR	MS	MSS	MSS	S	MSS	R	MSS	MSS
EGA Gregory(ϕ)	MR	MS	MR	MSS	S	MSS	S	S	S	MSS
EGA Wedgetail(ϕ)	MRMS	MS	MSS	MSS	MSS	MSS (P)	S	S	S	VS
Genie(ϕ)	MRMS	MSS	S	S	MRMS (P)	SVS	MS (P)	MSS (P)	MS (P)	MRMS
Hammer CL Plus(ϕ)	MR	MS	S	MSS	MRMS	S	MSS	MRMS	MSS	S
Illabo(ϕ)	MR	MRMS	S	MSS	MS	RMR	S	MRMS	MSS	MSS
Ironbark(ϕ)	MS	MR	MRMS	S	MSS	S	MSS (P)	MS (P)	S	MR (P)
Jillaroo(ϕ)	MS	S	S	S	MS	SVS	S	MS	S	MS (P)
Kingston(ϕ)	S	MSS	S	S	MSS	S	S	R	S	MR
Lancelin(ϕ)	MRMS	MSS	MSS	SVS	MRMS	S	S	MRMS	SVS	MS
Leverage(ϕ)	MR	MRMS	RMR	S	MRMS	SVS	S	MS	S	MS
Longford(ϕ)	RMR	RMR	RMR	MRMS/S	MRMS	RMR	MSS	MS	S	S
Longsword(ϕ)	MR	MRMS/MS	MSS	MS	MRMS	S	MSS	MRMS	MRMS	MRMS
LRPB Anvil(ϕ) CL Plus	MR	S	SVS	VS	MSS	SVS	MSS	MS	MSS	S
LRPB Avenger(ϕ)	MS	S	SVS	S	MS	SVS	S	MRMS	MSS	MRMS
LRPB Bale(ϕ)	MRMS	MRMS	MSS	MSS	SVS	MRMS	S	R	S	S
LRPB Beaufort(ϕ)	SVS	RMR	MSS	S	MRMS	R (P)	S	MS	MS	MSS
LRPB Dual(ϕ)	MRMS	MS	MSS	MSS	S	S	S	R	MSS	MSS
LRPB Hellfire(ϕ)	MR	MRMS	MSS	S	MSS	S	MSS	MS	MSS	MSS
LRPB Impala(ϕ)	MR	MRMS	SVS	SVS	MSS	MR	MSS	MSS	SVS	S
LRPB Kittyhawk(ϕ)	MRMS	MR	MR	MRMS	MRMS	MS	SVS	S	S	S
LRPB Lancer(ϕ)	R	RMR	RMR	MSS	MS	MR	MSS	S	S	MS
LRPB Major(ϕ)	MRMS	MRMS	MR	MSS	MS	MSS	MSS	MRMS	S	MSS

Continued on next page

Table 9: Wheat disease guide for Victoria (continued).

Variety	Stem rust	Stripe rust (east coast resistance)	Leaf rust	*Septoria tritici* blotch	Yellow leaf spot	Powdery mildew	Crown rot	CCN	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)
LRPB Matador(b)	MS	MS	MSS	S	MRMS	MSS	S	MS (P)	S	MS
LRPB Nighthawk(b)	RMR	MR	MS	MS	MS	SVS	MSS	MS	MSS	MS
LRPB Optimus(b)	MR	MRMS	RMR	S	MSS	MSS	MSS	MS	MSS	MS
LRPB Oryx(b)	MR	MRMS	RMR#	SVS	MSS	MR	MSS	S	MSS	MSS
LRPB Parakeet(b)	MR	MR	RMR	SVS	MSS	SVS	MSS	MS	MRMS	S
LRPB Raider(b)	RMR	MR	RMR	S	MSS	S	S	S	MSS	MS
LRPB Scout(b)	MRMS	MS	MS	S	SVS	S	S	R	S	MSS
LRPB Stealth(b)	R	RMR	RMR	MSS	MS	MRMS	MSS	S	MSS	S
LRPB Trojan(b)	MRMS	S	MR	S	MSS	S	MS	MS	MSS	MSS
Mace(b)	MRMS	SVS	S	SVS	MRMS	MSS	S	MRMS	MS	MS
Mammoth(b)	MR	MSS	MRMS	MSS	MRMS	SVS	S	MSS	MSS	MRMS
Manning(b)	MR	MR	MSS	MRMS/S	MRMS	MRMS	VS	S	MSS	S
Mowhawk(b)	RMR (P)		MR (P)	MSS (P)	MRMS (P)	MR				
Naparoo(b)	MRMS	MRMS	MS	S	MRMS	MR (P)	S		SVS	S
Packer(b)	MR	MRMS	MR	MSS	MS	MSS	MS (P)	R (P)	S	S
Razor CL Plus(b)	MRMS	MRMS	S	SVS	MSS	MSS	S	MR	S	MS
Reilly(b)	MRMS	MS	MSS	S	S	MSS	S	R	MS	MSS
RGT Accroc(b)	MRMS	MRMS	S	MS	MRMS	MRMS	SVS	S	MS	MSS
RGT Calabro	MS	MRMS	MS	MRMS	MR	RMR	SVS	S	S	MS
RGT Cesario(b)	RMR	MRMS	RMR	MRMS	MR	RMR	VS	MSS (P)	MRMS	MSS
RGT Healy(b)	MRMS	MRMS	MR	MSS	MSS	S	S	MR	MSS	MR
RGT Ponsford(b)	RMR	MS	MR	MSS	MS	MSS	MSS	MRMS	MSS	S
RGT Waugh(b)	MS	MR	S	MRMS#	MRMS	RMR	S	MS	MSS	MSS
RGT Zanzibar	VS	RMR	SVS	MSS	MS	RMR	S	MSS	S	MS (P)
RockStar(b)	MRMS	S	S	S	MRMS	SVS	S	MSS	MRMS	MS
Scepter(b)	MRMS	S	MSS	S	MRMS	SVS	MSS	MRMS	S	MSS
Severn(b)	MRMS	MR	MR	MSS	MRMS	RMR	S	MSS (P)	S	MRMS
Sheriff CL Plus(b)	MS	SVS	SVS	S	MRMS	SVS	S	MS	MRMS	MS
Shotgun(b)	MRMS	MSS	MSS	S (P)	MRMS	S	MS (P)	R (P)	MS (P)	MRMS
Soaker(b)	MRMS	S	MSS	S	MRMS	S	MS (P)	MRMS (P)	S	S
Stockade(b)	MS	MR	MR	MS	MRMS	SVS	S	MRMS	S	MSS
Sunblade CL Plus(b)	MS	MRMS	MSS	S	MSS	S	S	MSS	MSS	MRMS
Suncentral(b)	MRMS	MS	RMR	S	MSS	SVS	MSS	S	MRMS	MRMS
Sundancer(b)	MR	MR	RMR	MSS	MS	S	MSS	MS	MSS	MS
Sunflex(b)	MR	MRMS	RMR	SVS	MS	S	MSS	MS	S	MSS
Sunmaster(b)	MS	MRMS	RMR	S	MSS	S	MSS	MSS	MRMS	MS
Tomahawk CL Plus(b)	MR	S	S	S	MRMS	SVS	MSS	MRMS	S	MS
Triple 2(b)	MR (P)	RMR (P)	MRMS	MR	MR (P)	MRMS	MRMS (P)	MS (P)	R (P)	MR
Valiant(b) CL Plus	MRMS	S	S	MSS	MRMS	VS	MSS	MSS (P)	S	S (P)
Vixen(b)	MRMS	SVS	SVS	S	MRMS	SVS	S	MSS	MRMS	MS
Wallaroo(b)	RMR	RMR	RMR	MSS	MRMS	S	MSS	R	MS	MRMS
Willaura(b)	MR	S	MRMS	S	MS	SVS	S	MS	MSS	MRMS
Yitpi	S	MS	MSS	S	SVS	MS	S	MR	MSS	S

Continued on next page

Table 9: Wheat disease guide for Victoria (continued).

Variety	Stem rust	Stripe rust (east coast resistance)	Leaf rust	*Septoria tritici* blotch	Yellow leaf spot	Powdery mildew	Crown rot	CCN	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)
DURUM										
Bitalli(Φ)	RMR	MRMS	MR	MSS	MRMS	S	SVS	MSS	MSS	RMR
Caparoi(Φ)	MR	MRMS	RMR	MRMS/S	MRMS	S	VS	MRMS (P)	MS	MR
DBA Bindaroi(Φ)	MR	MRMS	RMR	MS	MS	S	SVS	MS	MRMS	MR
DBA Lillaroi(Φ)	RMR	MRMS	RMR	S	MRMS	S	SVS	S	MRMS	RMR
DBA Mataroi(Φ)	MRMS	MRMS	MR	MSS	MRMS	S	SVS	MRMS	MS	RMR
DBA Vittaroi(Φ)	MR	MRMS	RMR	MSS	MRMS	MSS	SVS	S	MS	MR
DBA-Aurora(Φ)	RMR	MR	RMR	MRMS/S	MRMS	MSS	SVS	MSS	MRMS	RMR
Hyperno(Φ)	RMR	MRMS	RMR	MS	MRMS	MSS	SVS	MS	MS	RMR
Jandaroi(Φ)	MRMS (R)	MRMS	RMR	MSS	MRMS	S (P)	VS	MS	MS	MRMS
Patron(Φ)	RMR	MRMS	RMR	MRMS	MRMS	S	SVS	S	MRMS	MR
Saintly	MS	MRMS	RMR	MRMS/S	MRMS	S (P)	VS (P)	S	MS	RMR
Westcourt(Φ)	RMR	MR	RMR	S	MRMS	MSS	VS	MSS	MS	MR

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

Wheat variety maturity

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

Table 10: An industry guide for wheat variety maturity description.

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

Source: Australian Crop Breeders Ltd

Wheat optimum time of sowing – an example for Wimmera and Upper South-East South Australia

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

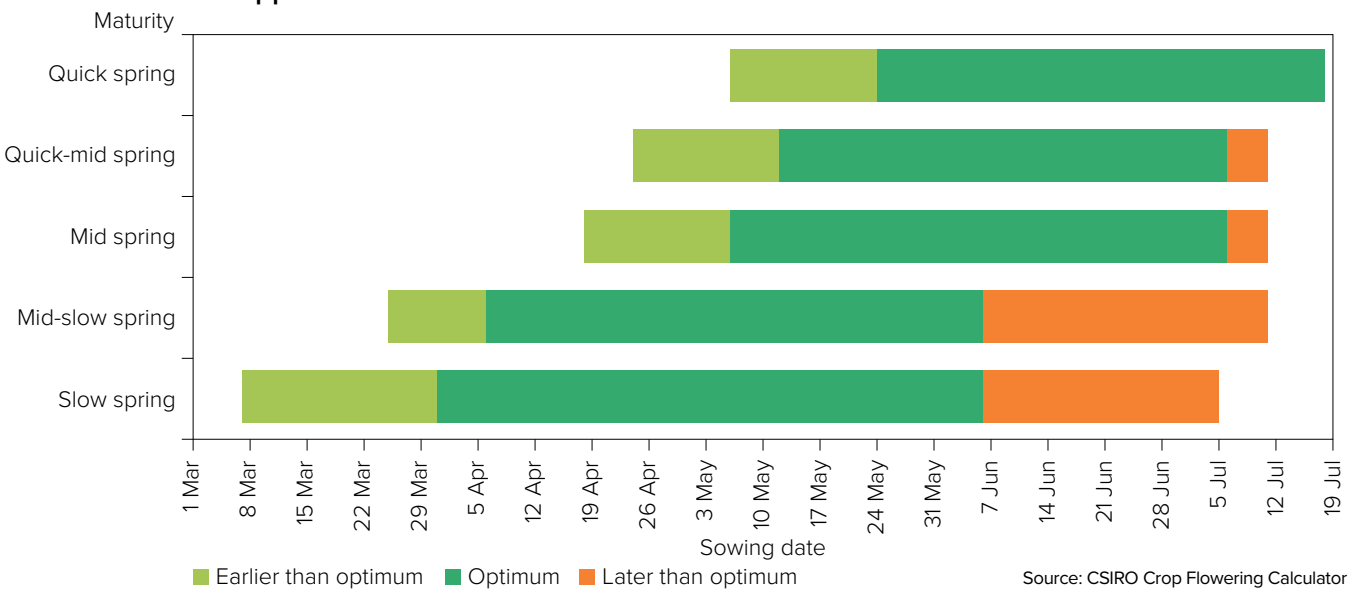
Growers and advisers are encouraged to use the Crop Flowering Calculator to compare the impact of specific variety selection and sowing date for the ideal flowering window at their own location. The Crop Flowering Calculator is a simple phenology (maturity) model that uses 60 years of local weather data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

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

This time of sowing guide (Figure 19) is automatically generated from the database that underpins the Crop Flowering Calculator. The guide presents the optimal sowing windows for generic varieties for a single location.

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

Figure 19: Optimum time of sowing by variety maturity for Horsham as an example for Wimmera and Upper South-East South Australia.



Source: CSIRO Crop Flowering Calculator

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

BARLEY

New barley varieties

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

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

*EPR amount is ex-GST , $^{\Phi}$denotes Plant Breeder's Rights apply. [1]All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder. Grain classification downloaded from Grains Australia on 14/3/2025.

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

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

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

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

Table 1: Brim main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.07	1.41	6.53	4.88	1.50
Neo(b) CL*				112	107
Combat(b)		108	106	114	117
Minotaur(b)	104	106	107	107	101
Cyclops(b)	105	104	104	110	101
Spinnaker(b)		106	108	103	107
Bigfoot CL(b)*					98
Granite(b) CL*					97
Leabrook(b)	107	112	97	107	109
Fandaga(b)		103	103	103	114
Rosalind(b)	101	103	105	104	103
RGT Planet(b)	100	102	107	100	107
Titan AX(b)*			95	107	107
Yeti(b)	103	107	101	104	96
Beast(b)	104	107	97	105	106
Zena(b) CL*		101	106	98	105
Sowing date	**8 May**	**20 May**	**13 May**	**23 May**	**30 May**
Rainfall J–M (mm)	**101**	**33**	**119**	**27**	**76**
Rainfall A–O (mm)	**252**	**214**	**396**	**226**	**123**

Special thanks to 2024 trial cooperator.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 2: Horsham main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	5.46		8.07	3.64	
Neo(b) CL*		Compromised trial		106	Trial failed
Combat(b)			111	115	
Spinnaker(b)			118	96	
Fandaga(b)			116	97	
RGT Planet(b)	104		119	91	
Zena(b) CL*			117	90	
Minotaur(b)	105		107	107	
RGT Atlantis(b)				86	
Cyclops(b)	104		99	114	
Leabrook(b)	104		98	114	
Rosalind(b)	100		106	101	
Titan AX(b)*			94	116	
Bottler(b)	102		107	90	
Beast(b)	100		93	112	
Compass(b)	101		92	111	
Sowing date	**11 May**	**23 May**	**23 May**	**30 Jun**	**30 May**
Rainfall J–M (mm)	**77**	**58**	**111**	**31**	**84**
Rainfall A–O (mm)	**288**	**256**	**476**	**261**	**184**

Special thanks to 2024 trial cooperator.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 3: Kaniva main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	5.82		5.16		6.78
Neo(b) CL*		Compromised trial		No trial	117
RGT Planet(b)	108		114		108
Spinnaker(b)			115		107
Combat(b)			109		110
Fandaga(b)			110		107
Minotaur(b)	107		110		107
Zena(b) CL*			111		105
Cyclops(b)	106		104		106
RGT Atlantis(b)					103
Bottler(b)	105		105		103
Bigfoot CL(b)*					103
Rosalind(b)	100		106		102
Granite(b) CL*					100
Titan AX(b)*			96		102
Leabrook(b)	101		98		101
Sowing date	**15 May**	**22 May**	**21 May**		**30 May**
Rainfall J–M (mm)	**59**	**46**	**37**		**59**
Rainfall A–O (mm)	**350**	**323**	**375**		**199**

Special thanks to 2024 trial cooperator.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 4: Keith main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	6.49		6.13	4.96	
Neo(b) CL*		Compromised trial		106	Compromised trial
Combat(b)			106	109	
Spinnaker(b)			116	96	
RGT Planet(b)	110		116	90	
Minotaur(b)	106		107	106	
Fandaga(b)			111	92	
Rosalind(b)	105		106	104	
Zena(b) CL*			114	90	
Cyclops(b)	104		99	111	
RGT Atlantis(b)				89	
Yeti(b)	97		98	113	
Leabrook(b)	99		96	110	
Laperouse(b)	96		95	111	
Beast(b)	97		92	111	
Bottler(b)	101		106	88	
Sowing date	**13 May**	**22 May**	**20 May**	**27 May**	**3 Jun**
Rainfall J–M (mm)	**74**	**65**	**67**	**31**	**59**
Rainfall A–O (mm)	**353**	**320**	**410**	**237**	**195**

Special thanks to 2024 trial cooperator, Makin Nominees.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

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

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

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

Protein and yield comparisons

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

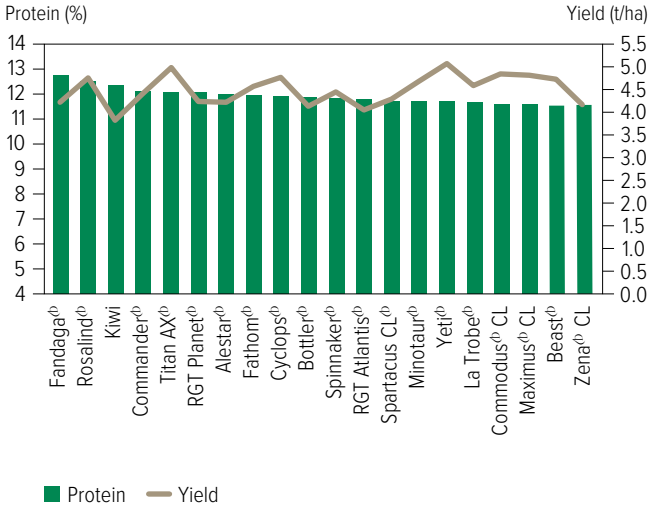
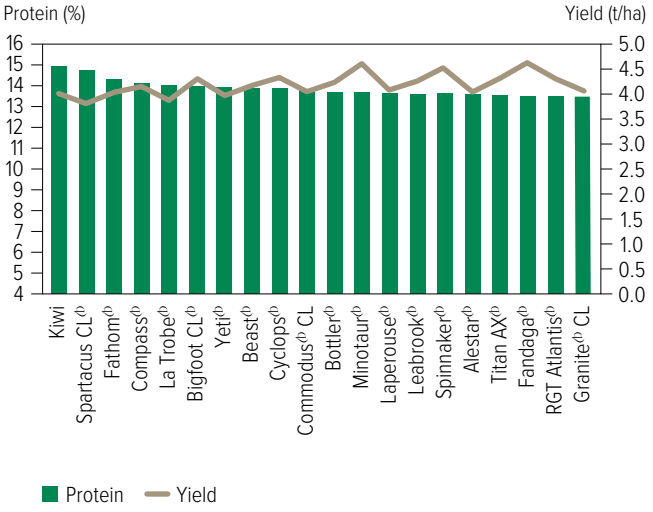


Figure 2: Protein (%) and yield (t/ha) comparisons for main season barley varieties from two NVT sites in Wimmera and Upper SE SA in 2024.



Test weight comparisons

Figure 3: Test weight (kg/hL) comparisons for main season barley varieties from three NVT sites in Wimmera and Upper SE SA in 2023.

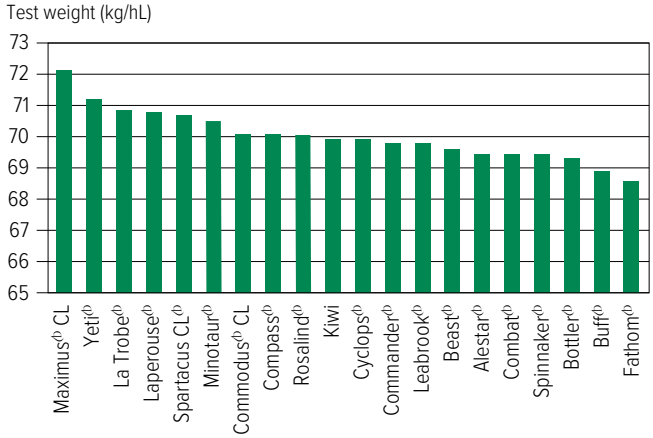
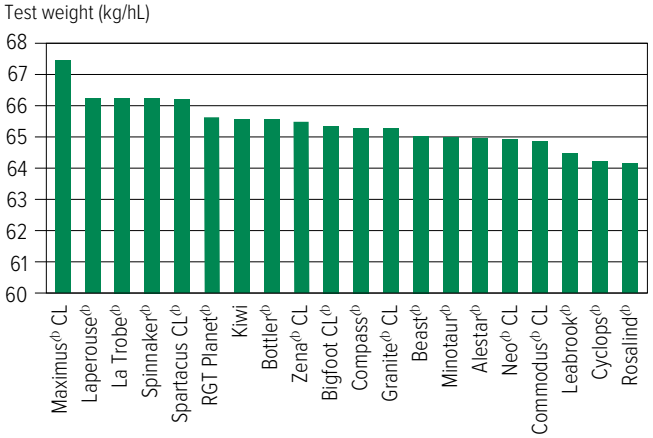


Figure 4: Test weight (kg/hL) comparisons for main season barley varieties from two NVT sites in Wimmera and Upper SE SA in 2024.



Screenings comparisons

Figure 5: Screenings (<2.2mm) comparisons for main season barley varieties from three NVT sites in Wimmera and Upper SE SA in 2023.

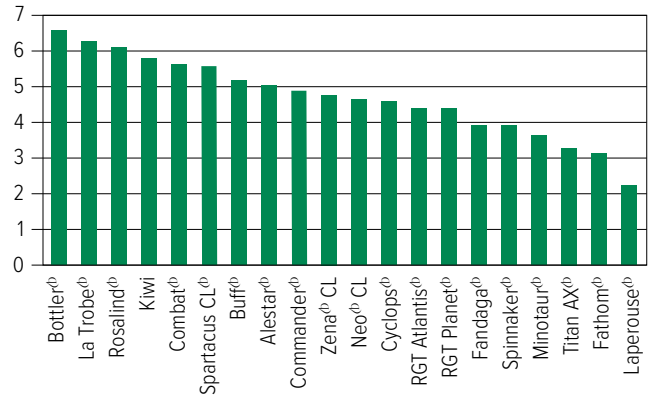
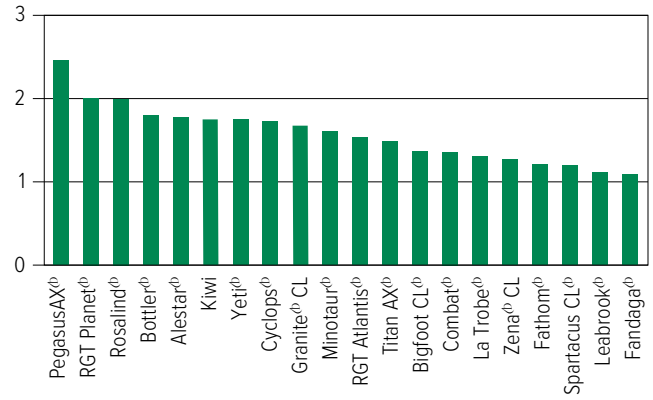


Figure 6: Screenings (<2.2mm) comparisons for main season barley varieties from two NVT sites in Wimmera and Upper SE SA in 2024.



Retention comparisons

Figure 7: Retention (>2.5mm) comparisons for main season barley varieties from three NVT sites in Wimmera and Upper SE SA in 2023.

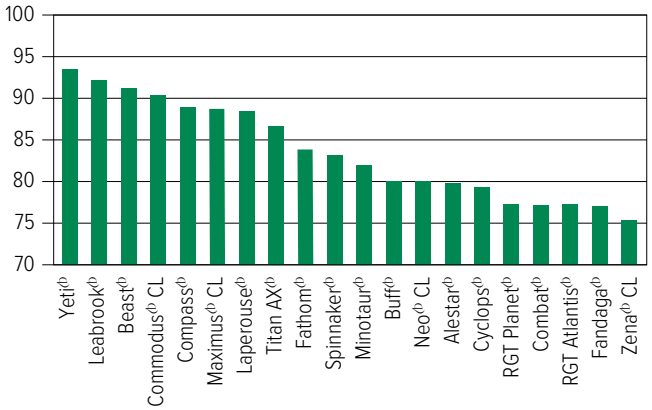
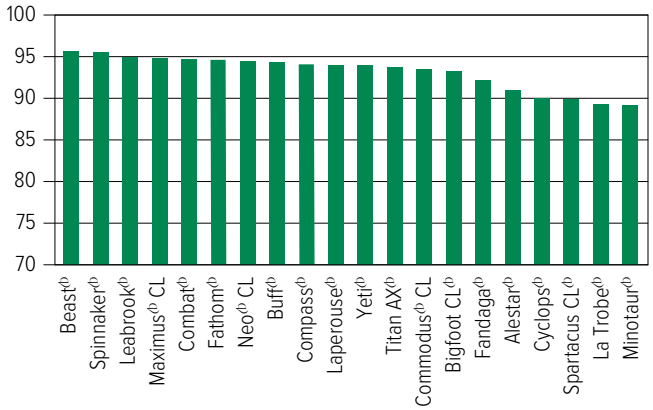


Figure 8: Retention (>2.5mm) comparisons for main season barley varieties from two NVT sites in Wimmera and Upper SE SA in 2024.



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 2025.

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

Table 5: Barley disease guide for South Australia.

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

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

Table 6: Barley disease guide for Victoria.

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

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

OAT

New oat varieties

The following information is for field pea varieties released in the 12 months to the date when the MET analysis was published on NVT online. Please go to nvt.grdc.com.au to find trial results for any new varieties released since the publication of this harvest report.

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

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

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

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

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

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

Table 1: Bordertown oat.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	5.18	4.70	2.98		1.93
Goldie[Φ]		118	107	No trial	117
Bannister[Φ]	115	110	105		108
Koala[Φ]	117	108	105		105
Minnie[Φ]			101		117
Williams[Φ]	106	100	105		96
Archer[Φ]*					88
Bilby[Φ]	101	103	103		104
Kowari[Φ]	96	98	98		101
Mitika[Φ]	90	93	96		95
Yallara[Φ]	86	89	92		87
Sowing date	**19 May**	**28 May**	**28 May**		**5 Jun**
Rainfall J–M (mm)	**90**	**40**	**37**		**32**
Rainfall A–O (mm)	**343**	**362**	**375**		**232**

Special thanks to 2024 trial cooperator.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 2: Dimboola oat.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)					3.15
Goldie[Φ]	No trial	No trial	No trial	No trial	110
Koala[Φ]					110
Bannister[Φ]					109
Archer[Φ]*					109
Williams[Φ]					105
Echidna					104
Minnie[Φ]					103
Bilby[Φ]					100
Wallaby[Φ]					97
Kowari[Φ]					96
Sowing date					**30 May**
Rainfall J–M (mm)					**76**
Rainfall A–O (mm)					**170**

Special thanks to 2024 trial cooperator.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

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

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 2025.

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

Table 3: Oat disease guide for South Australia and Victoria.

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

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

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 to find trial results for any new varieties released since the publication of this harvest report.

Variety	Breeding company	End point royalty* ($)	Comments supplied by breeding company[1]
DG Buller G	Nutrien Ag Solutions Ltd	N/A	DG Buller G will be available to growers in 2025. It is a 5 series, Optimum GLY® hybrid. DG Buller G is medium height with good standability. It has good oil content.
InVigor® LR 3540P	BASF Australia Ltd	N/A	InVigor® LR 3540P is an early maturing hybrid with PodGuard®. InVigor® LR 3540P contains dual herbicide tolerance to Liberty® and Truflex®. InVigor® LR 3540P combines the flexibility of PodGuard® and dual herbicide tolerance with early maturity. InVigor® LR 3540P is suited to lower-rainfall and shorter-season areas.
InVigor® LR 5040P	BASF Australia Ltd	N/A	InVigor® LR5040P is a mid-season hybrid with PodGuard®. InVigor® LR5040P contains dual herbicide tolerance to Liberty® and Truflex®. InVigor® LR5040P combines the flexibility of PodGuard® and dual herbicide tolerance with high yield and oil results. InVigor® LR5040P is suited to mid-season growing regions.
Monola® H524TT	Nuseed Pty Ltd	N/A	Monola® H524TT is an early-mid maturing Monola® TT hybrid with excellent early vigour. It is Nuseed's second Monola® TT hybrid with improved yield and oil profile. It has demonstrated competitive yield and oil content to commercial canola TT hybrids during trials and exhibits strong early vigour and good early biomass. Suited to medium to slow canola growing regions, Monola® H524TT demonstrates good harvestability. Limited commercial release in 2024.
Nuseed® Griffon TTI	Nuseed Pty Ltd	N/A	Nuseed® Griffon TTI is Nuseed's first dual-herbicide hybrid canola, with triazine and IMI tolerance for flexible, effective crop protection. It is an early-mid maturing variety ideal for target yield environments of 0.5 to 3t/ha, which ensures fast pod development to safeguard yield. Commercial release in 2025. Rapid pod development for higher yields and a shorter growing season.
Pioneer® PN526C	Pioneer	N/A	Pioneer® PN526C (coded HH29901) is a mid-maturing specialty oil Clearfield® hybrid. Suited to medium to high rainfall zones, it is medium in height. First tested in NVT 2022. Marketed by Pioneer Seeds.
Pioneer® PY323G	Pioneer	N/A	Pioneer® PY323G (coded AA1421G) is an early maturing Optimum GLY® hybrid variety. Suited to early and early-mid season growing regions, it is medium in height. First tested in NVT 2023. Marketed by Pioneer Seeds.
Pioneer® PY327C	Pioneer	N/A	Pioneer® PY327C (coded AA0424I) is an early maturing Clearfield® hybrid suited to medium to high rainfall zones. It has mid-fast phenology and a medium-tall plant height. First tested in NVT 2023. Marketed by Pioneer Seeds.
Pioneer® PY422G	Pioneer	N/A	Pioneer® PY422G (coded AA1418G) is an early-mid maturing Optimum GLY® hybrid suited to early-mid and mid-season growing regions with medium height. First tested in NVT 2023. Marketed by Pioneer Seeds.
Pioneer® PY424GC	Pioneer	N/A	Pioneer® PY424GC (coded WW1958W) is an early-mid maturing combination Optimum GLY® and Clearfield® hybrid suited to early and early-mid season growing regions. It has medium height. First tested in NVT 2023. Marketed by Pioneer Seeds.

Continued on next page

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

Variety	Breeding company	End point royalty* ($)	Comments supplied by breeding company[1]
Pioneer® PY428R	Pioneer	N/A	Pioneer® PY428R (coded D257-18) is an early-mid maturing Roundup Ready® hybrid suited to early and early-mid season growing regions and is medium in height. First tested in NVT 2023. Marketed by Pioneer Seeds.
Pioneer® PY429T	Pioneer	N/A	Pioneer® PY429T (coded AA902T) is a widely adapted early-mid maturing triazine-tolerant hybrid. Best suited to medium to medium-high rainfall zones. Medium plant height. First tested in NVT 2023. Marketed by Pioneer Seeds.
Pioneer® PY432T	Pioneer	N/A	Variety description not supplied.
Pioneer® PY525G	Pioneer	N/A	Pioneer® PY525G (coded AA1409G) is a mid-maturing Optimum GLY® hybrid variety suited to mid-season growing regions with medium-tall height. First tested in NVT 2023. Marketed by Pioneer Seeds.

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

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

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

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

Table 1: Horsham med-high rainfall GLY.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.70	2.44	2.84	2.42	1.93
Pioneer® PY428R				107	111
InVigor® LR 5040P			112	99	108
InVigor® LR 4540P			103	100	113
Nuseed® Hunter TF		115	99	104	114
InVigor® R 4520P	106	111	107	101	109
Nuseed® Eagle TF		101	104	109	103
DG Buller G					101
Nuseed® Raptor TF	101	105	95	104	106
Pioneer® PY424GC				98	102
Pioneer® PY525G				104	96
Sowing date	**22 Apr**	**11 May**	**22 Apr**	**4 May**	**30 May**
Rainfall J–M (mm)	**77**	**58**	**111**	**31**	**79**
Rainfall A–O (mm)	**288**	**256**	**476**	**261**	**409**

Special thanks to 2024 trial cooperator.
Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Regiment XC, Pioneer® PY424GC.
Learn more via the NVT Long Term Yield Reporter

Table 2: Kaniva med-high rainfall GLY.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.34	3.55	2.86	3.05	
Pioneer® PY428R				108	Trial failed
Pioneer® 45Y28 RR	106	105	102	104	
Nuseed® Eagle TF			103	103	
Nuseed® Hunter TF			101	105	
Pioneer® 44Y30 RR	104	101	108	104	
InVigor® LR 4540P			103	106	
InVigor® LR 5040P			106	106	
InVigor® R 4520P	105	100	102	106	
Nuseed® Raptor TF	103	104	98	101	
DG Drummond TF		102	103	100	
Sowing date	**4 May**	**15 May**	**10 May**	**9 May**	**30 May**
Rainfall J–M (mm)	**59**	**46**	**37**	**45**	**59**
Rainfall A–O (mm)	**350**	**323**	**375**	**265**	**199**

Special thanks to 2024 trial cooperator.
Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Regiment XC, Pioneer® PY424GC.
Learn more via the NVT Long Term Yield Reporter

Table 3: Keith low-med rainfall GLY.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)		2.03	3.02	2.07	1.75
Nuseed® Hunter TF	No trial		107	109	109
InVigor® LR 4540P			107	107	109
InVigor® R 4520P		101	107	102	104
Hyola® Regiment XC		104		103	102
Nuseed® Raptor TF		103	102	98	102
Pioneer® 44Y27 RR		99	99	105	103
Pioneer® PY424GC				104	102
Pioneer® PY323G				104	101
DG Buller G					98
Pioneer® PY422G				90	92
Sowing date		**17 May**	**11 May**	**10 May**	**31 May**
Rainfall J–M (mm)		**65**	**67**	**31**	**59**
Rainfall A–O (mm)		**320**	**410**	**237**	**195**

Special thanks to 2024 trial cooperator.
Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Regiment XC, Pioneer® PY424GC
Learn more via the NVT Long Term Yield Reporter

Table 4: Horsham med-high rainfall IMI.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.63	2.25	3.07	2.44	1.93
Pioneer® PY421C			118	115	117
Pioneer® 44Y94 CL	112	116	115	114	113
Pioneer® 45Y95 CL		113	114	118	112
Pioneer® 45Y93 CL	109			113	
Pioneer® PY327C				106	112
Hyola® Continuum CL			110	108	102
Pioneer® 43Y92 CL			101	104	105
Hyola® Solstice CL		110	89	104	114
Nuseed® Ceres IMI		110	82	92	111
VICTORY® V75-03CL	93	93		96	94
Sowing date	**23 Apr**	**11 May**	**22 Apr**	**4 May**	**30 May**
Rainfall J–M (mm)	**77**	**58**	**111**	**31**	**79**
Rainfall A–O (mm)	**288**	**256**	**476**	**261**	**409**

Special thanks to 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 5: Kaniva med-high rainfall IMI.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.40	3.06	2.40	2.83	2.58
Pioneer® PY421C			116	114	118
Pioneer® 45Y95 CL		111	114	111	115
Pioneer® 44Y94 CL	111	108	118	111	113
Pioneer® 45Y93 CL	107			107	
Pioneer® PY327C				107	108
Hyola® Continuum CL			117	104	103
Pioneer® 43Y92 CL			105	103	102
Hyola® Solstice CL		107	84	104	107
Nuseed® Ceres IMI			78	99	100
VICTORY® V75-03CL	94	98		94	90
Sowing date	**4 May**	**15 May**	**10 May**	**9 May**	**30 May**
Rainfall J–M (mm)	**59**	**46**	**37**	**45**	**59**
Rainfall A–O (mm)	**350**	**323**	**375**	**265**	**199**

Special thanks to 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 6: Minimay med-high rainfall IMI.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.37	2.73		2.87	2.66
Pioneer® 45Y95 CL		107	Trial failed	116	112
Pioneer® PY421C				117	114
Pioneer® 44Y94 CL	110	104		114	111
Hyola® Solstice CL		108		107	110
Pioneer® 45Y93 CL	111			110	
Pioneer® PY327C				107	109
Hyola® Continuum CL				105	104
Pioneer® 43Y92 CL				103	105
Nuseed® Ceres IMI				98	105
VICTORY® V75-03CL	94	103		93	96
Sowing date	**27 Apr**	**28 Apr**	**22 Apr**	**16 May**	**3 Jun**
Rainfall J–M (mm)	**74**	**62**	**131**	**54**	**34**
Rainfall A–O (mm)	**398**	**374**	**503**	**385**	**265**

Special thanks to 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 7: Keith low-med rainfall IMI.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.10	2.02	2.70	1.71	1.72
Pioneer® PY421C				111	112
Pioneer® 44Y94 CL		107	114	108	110
Pioneer® 45Y95 CL				109	110
Pioneer® PY327C				105	104
Hyola® Equinox CL			104		
Hyola® Continuum CL			107	101	
Pioneer® 43Y92 CL	102	102	102	102	102
Nuseed® Ceres IMI		101	95	110	105
Hyola® Solstice CL		100		110	99
Pioneer® PY520TC				94	
Sowing date	**28 Apr**	**17 May**	**11 May**	**10 May**	**31 May**
Rainfall J–M (mm)	**74**	**65**	**67**	**31**	**59**
Rainfall A–O (mm)	**353**	**320**	**410**	**237**	**195**

Special thanks to 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 8: Horsham med-high rainfall TT.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.33	2.32	2.93	2.39	2.04
Pioneer® PY429T				114	109
Hyola® Blazer TT	110	109	114	115	108
HyTTec® Trifecta	110	111	107	114	112
Pioneer® PY520TC		108	112	113	106
Hyola® Defender CT			118	112	101
HyTTec® Trophy	107	113	104	109	112
SF Dynatron TT®	107	109	111	109	106
RGT Baseline® TT		97	115	110	99
HyTTec® Trident	103	117	91	108	116
Nuseed® Griffon TTI				102	106
Sowing date	**23 Apr**	**11 May**	**22 Apr**	**4 May**	**30 May**
Rainfall J–M (mm)	**77**	**58**	**111**	**31**	**79**
Rainfall A–O (mm)	**288**	**256**	**476**	**261**	**409**

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

Table 9: Kaniva med-high rainfall TT.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.22	2.88	2.30	2.64	
Pioneer® PY429T				110	Trial failed
Hyola® Blazer TT	110	109	115	109	
Hyola® Defender CT			122	106	
Pioneer® PY520TC			114	107	
HyTTec® Trifecta	111	111	103	109	
SF Dynatron TT®	106	104	115	106	
HyTTec® Trophy	109	107	105	107	
RGT Baseline® TT		105	109	105	
HyTTec® Trident	108	108	101	105	
Nuseed® Griffon TTI				103	
Sowing date	**4 May**	**15 May**	**10 May**	**9 May**	**30 May**
Rainfall J–M (mm)	**59**	**46**	**37**	**45**	**59**
Rainfall A–O (mm)	**350**	**323**	**375**	**265**	**199**

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

Table 10: Minimay med-high rainfall TT.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.12	2.58		2.52	2.49
HyTTec® Trifecta	110	107	Trial failed	116	112
Hyola® Blazer TT	110	105		114	109
Pioneer® PY429T				113	110
HyTTec® Trident	101	113		108	114
Pioneer® PY520TC		105		112	108
HyTTec® Trophy	106	106		111	111
SF Dynatron TT®	106	103		108	107
Hyola® Defender CT				109	103
RGT Baseline® TT		100		109	101
InVigor® T 4511		103		106	106
Sowing date	**27 Apr**	**28 Apr**	**22 Apr**	**16 May**	**3 Jun**
Rainfall J–M (mm)	**74**	**62**	**131**	**54**	**34**
Rainfall A–O (mm)	**398**	**374**	**503**	**385**	**265**

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

Table 11: Keith low-med rainfall TT.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.93	2.01	3.00	1.69	1.51
Hyola® Blazer TT	117	109	114	109	111
HyTTec® Trophy	111	107	109	111	111
SF Dynatron TT®	112	104	107	109	109
HyTTec® Trident	109	104	104	115	112
RGT Baseline® TT			110	103	104
Hyola® Defender CT			110	100	103
HyTTec® Velocity	105				111
Pioneer® PY520TC				106	107
Nuseed® Griffon TTI				108	107
InVigor® T 4511		104	103	106	106
Sowing date	**28 Apr**	**17 May**	**11 May**	**10 May**	**31 May**
Rainfall J–M (mm)	**74**	**65**	**67**	**31**	**59**
Rainfall A–O (mm)	**353**	**320**	**410**	**237**	**195**

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

Australian canola variety disease ratings

The following table contains varietal ratings for blackleg disease of canola.
These ratings are updated twice a year by crop pathologists and were released in autumn 2025.

Table 12: Canola disease guide – autumn 2025 ratings and resistance groups.

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

Continued on next page

Table 12: Canola disease guide – autumn 2025 ratings and resistance groups (continued).

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

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, UCI = upper canopy infection.
Please check updated ratings using the Blackleg Management Guide or the NVT Disease Ratings.

CHICKPEA

Chickpea variety yield performance – Wimmera and Upper South-East South Australia

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

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

Table 1: Horsham desi chickpea.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	1.65		2.10	1.38	1.06
Neelam(Ф)	100	Compromised trial	103	108	95
PBA Striker(Ф)	105		94	108	96
CBA Captain(Ф)	103		94	97	109
PBA Slasher(Ф)	103		95	105	94
PBA Maiden	97		96	106	96
PBA Seamer(Ф)			81		
Sowing date	**25 May**	**31 May**	**24 May**	**29 Jun**	**30 May**
Rainfall J–M (mm)	**77**	**58**	**111**	**31**	**84**
Rainfall A–O (mm)	**288**	**256**	**476**	**261**	**184**

Special thanks to 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 2: Kaniva desi chickpea.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	1.66		1.60	0.94	
PBA Striker(Ф)	112	Trial failed	91	110	Trial failed
PBA Slasher(Ф)	111		93	104	
Neelam(Ф)	106		93	109	
CBA Captain(Ф)	98		102	101	
PBA Maiden	105		91	106	
PBA Seamer(Ф)			98		
Sowing date	**29 May**	**31 May**	**25 May**	**13 Jul**	**30 May**
Rainfall J–M (mm)	**59**	**46**	**37**	**45**	**59**
Rainfall A–O (mm)	**350**	**323**	**375**	**265**	**199**

Special thanks to 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

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

Table 3: Horsham kabuli chickpea.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	1.68		1.91	1.45	0.85
PBA Royal(Ф)	100	Compromised trial	112	100	103
Genesis® 090	100		100	96	100
Almaz(Ф)	94		99	99	
PBA Monarch(Ф)	96		94	100	92
PBA Magnus(Ф)	95		85	94	115
Genesis® Kalkee	83		99	96	101
Sowing date	**25 May**	**31 May**	**24 May**	**29 Jun**	**30 May**
Rainfall J–M (mm)	**77**	**58**	**111**	**31**	**84**
Rainfall A–O (mm)	**288**	**256**	**476**	**261**	**184**

Special thanks to 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 4: Kaniva kabuli chickpea.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	1.83		1.16	1.01	
PBA Royal(Ф)	94	Trial failed	108	102	Trial failed
Genesis® 090	98		106	94	
PBA Monarch(Ф)	103		92	96	
Almaz(Ф)	94		98	99	
PBA Magnus(Ф)	94		97	96	
Genesis® Kalkee	89		96	92	
Sowing date	**19 Jun**	**31 May**	**25 May**	**13 Jul**	**30 May**
Rainfall J–M (mm)	**59**	**46**	**37**	**45**	**59**
Rainfall A–O (mm)	**350**	**323**	**375**	**265**	**199**

Special thanks to 2024 trial cooperator.
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 2025.

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

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

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

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

FABA BEAN

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

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

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

Table 1: Kaniva faba bean.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	5.65	1.93	3.75	3.79	
PBA Samira(Ф)	102	95	105	101	Compromised trial
PBA Amberley(Ф)	102	96	100	100	
PBA Zahra(Ф)	97	94	103	103	
PBA Marne(Ф)	89	99	98	104	
Farah	97	93	94	99	
Fiesta VF	97	96	93	98	
PBA Rana		93	76	82	
PBA Bendoc(Ф)*	97	97	79	95	
Nura	99	95	74	92	
Sowing date	**5 May**	**24 May**	**8 May**	**17 May**	**30 May**
Rainfall J–M (mm)	**59**	**46**	**37**	**45**	**59**
Rainfall A–O (mm)	**350**	**323**	**375**	**265**	**199**

Special thanks to 2024 trial cooperator.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 2: Minimay faba bean.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.32	3.54		3.49	1.79
PBA Rana		87	Trial failed	88	110
PBA Samira(Ф)	102	102		104	100
PBA Amberley(Ф)	100	102		103	103
PBA Zahra(Ф)	92	105		105	103
Farah	95	102		101	106
Nura	96	99		96	115
Fiesta VF	98	99		98	105
PBA Bendoc(Ф)*	91	101		98	112
PBA Marne(Ф)	82	103		101	102
Sowing date	**27 Apr**	**29 Apr**	**6 May**	**16 May**	**3 Jun**
Rainfall J–M (mm)	**74**	**62**	**131**	**54**	**34**
Rainfall A–O (mm)	**398**	**374**	**503**	**385**	**265**

Special thanks to 2024 trial cooperator.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

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

Table 3: Mundulla faba bean.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	4.40	4.21		2.57	3.16
PBA Rana		84	Compromised trial	86	89
PBA Samira(Ꝺ)	105	98		95	102
PBA Amberley(Ꝺ)	101	101		97	98
Fiesta VF	106	91		94	101
PBA Zahra(Ꝺ)	96	97		95	103
Farah	104	91		92	102
Nura	102	94		93	89
PBA Marne(Ꝺ)	85	94		100	106
PBA Bendoc(Ꝺ)*	93	98		97	91
Sowing date	**6 May**	**5 May**	**12 May**	**31 May**	**5 Jun**
Rainfall J–M (mm)	**90**	**40**	**28**	**57**	**68**
Rainfall A–O (mm)	**343**	**362**	**374**	**329**	**246**

Special thanks to 2024 trial cooperator, Smart Group.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 4: Wonwondah faba bean.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	4.42	2.89			1.48
PBA Rana		87	Trial failed	Trial failed	101
Fiesta VF	113	92			110
Nura	119	91			93
Farah	110	93			115
PBA Samira(Ꝺ)	103	102			112
PBA Amberley(Ꝺ)	102	103			103
PBA Zahra(Ꝺ)	95	100			114
PBA Bendoc(Ꝺ)*	105	94			91
PBA Marne(Ꝺ)	87	92			110
Sowing date	**4 May**	**13 May**	**6 May**	**1 Jun**	**30 May**
Rainfall J–M (mm)	**95**	**80**	**111**	**44**	**84**
Rainfall A–O (mm)	**300**	**287**	**476**	**262**	**184**

Special thanks to 2024 trial cooperator.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Faba bean variety disease ratings – South Australia and Victoria

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

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

Table 5: Faba bean disease guide South Australia and Victoria.

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

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

FIELD PEA

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

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

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

Table 1: Horsham field pea.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.12		2.27	1.91	1.58
PBA Pearl	117	Compromised trial	119	106	120
PBA Percy	103		119	100	108
PBA Noosa(Ф)	104		101	104	111
APB Bondi(Ф)	106		98	108	106
PBA Oura(Ф)	104		102	98	112
PBA Butler(Ф)			116	109	
PBA Taylor(Ф)	101		94	105	110
PBA Gunyah(Ф)			103	100	101
PBA Wharton(Ф)	99		86	98	109
Kaspa	94		100	103	88
Sowing date	**25 May**	**31 May**	**24 May**	**29 Jun**	**30 May**
Rainfall J–M (mm)	**77**	**58**	**111**	**31**	**84**
Rainfall A–O (mm)	**288**	**256**	**476**	**261**	**184**

Special thanks to 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 2: Kaniva field pea.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	4.28			1.75	
APB Bondi(Ф)	111	Trial failed	Compromised trial	106	Compromised trial
PBA Pearl	110			108	
PBA Butler(Ф)				117	
PBA Taylor(Ф)	108			104	
PBA Noosa(Ф)	106			104	
Kaspa	99			106	
PBA Percy	97			108	
PBA Gunyah(Ф)				102	
PBA Oura(Ф)	99			97	
PBA Wharton(Ф)	101			92	
Sowing date	**29 May**	**31 May**	**25 May**	**13 Jul**	**30 May**
Rainfall J–M (mm)	**59**	**46**	**37**	**45**	**59**
Rainfall A–O (mm)	**350**	**323**	**375**	**265**	**199**

Special thanks to 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

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

Table 3: Mundulla field pea.					
Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.56			2.59	
PBA Pearl	114	Compromised trial	Compromised trial	112	No trial
APB Bondi[Φ]	114			107	
PBA Taylor[Φ]	110			105	
PBA Noosa[Φ]	108			105	
PBA Butler[Φ]				108	
PBA Percy	97			106	
PBA Oura[Φ]	100			101	
PBA Wharton[Φ]	102			97	
PBA Gunyah[Φ]				101	
Kaspa	98			100	
Sowing date	**27 May**	**1 Jun**	**28 May**	**31 May**	
Rainfall J–M (mm)	**90**	**40**	**28**	**57**	
Rainfall A–O (mm)	**343**	**362**	**374**	**329**	

No 2024 trial cooperator.
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 2025.

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

Table 4: Field pea disease guide for South Australia and Victoria.					
Variety	Bacterial blight	Downy mildew	Powdery mildew	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)
APB Bondi[Φ]	S	RMR (S)	RMR	RMR	MSS
GIA Kastar[Φ]	S	S	RMR	MR	MS
GIA Ourstar[Φ]	S (P)	S	S	MRMS	MS
Kaspa	S	S	S	RMR	MRMS
PBA Butler[Φ]	MS	S	S	RMR	MRMS
PBA Gunyah[Φ]	S	S	S	RMR	MRMS
PBA Noosa[Φ]	S	MS	S	RMR	MRMS
PBA Oura[Φ]	MS	S	S	MR	MRMS (P)
PBA Pearl	MS	S	S	MR	MRMS
PBA Percy	MRMS	S	S	RMR	RMR
PBA Taylor[Φ]	S	S	S	RMR	MRMS
PBA Twilight[Φ]	S	S	S	MR	MRMS
PBA Wharton[Φ]	S	S	R (S)	MR	MRMS

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

LENTIL

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

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

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

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

Table 1: Donald lentil.

Year	2020	2021	2022	2023	2024[1]
Mean yield (t/ha)					1.53
GIA Lightning(D)*	No trial	No trial	No trial	No trial	111
GIA Thunder(D)*					110
ALB Terrier(D)*					105
PBA HighlandXT(D)*					100
PBA Hurricane XT(D)*					100
PBA KelpieXT(D)*					100
GIA Leader(D)*					96
PBA Hallmark XT(D)*					94
GIA Sire(D)*					74
GIA Metro(D)*					73
Sowing date					**30 May**
Rainfall J–M (mm)					**79**
Rainfall A–O (mm)					**132**

Special thanks to 2024 trial cooperator.
* herbicide-tolerant variety, [1] IMI-trial.
Learn more via the NVT Long Term Yield Reporter

Table 2: Horsham lentil.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.14				1.72
GIA Lightning(D)*	105	Compromised trial	Compromised trial	Compromised trial	113
GIA Thunder(D)*	106				109
ALB Terrier(D)*					108
PBA Bolt(D)	102				103
PBA Jumbo2(D)	103				99
GIA Leader(D)*	98				102
PBA HighlandXT(D)*	100				99
PBA Hurricane XT(D)*	100				99
PBA Hallmark XT(D)*	96				98
PBA KelpieXT(D)*	102				89
Sowing date	**25 May**	**31 May**	**24 May**	**29 Jun**	**30 May**
Rainfall J–M (mm)	**77**	**58**	**111**	**31**	**84**
Rainfall A–O (mm)	**288**	**256**	**476**	**261**	**184**

Special thanks to 2024 trial cooperator.
* herbicide-tolerant variety.
Learn more via the NVT Long Term Yield Reporter

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

Table 3: Kaniva lentil.

Year	2020	2021	2022	2023	2024[1]
Mean yield (t/ha)	2.81		2.09	1.21	
GIA Thunder(Φ)*	106	Trial failed	143	113	Trial failed
PBA Jumbo2(Φ)	104		135	106	
ALB Terrier(Φ)*			137	96	
PBA KelpieXT(Φ)*	106		119	110	
GIA Lightning(Φ)*	106		94	114	
PBA Hurricane XT(Φ)*	100		107	96	
PBA HighlandXT(Φ)*	102		94	109	
PBA Ace(Φ)	104		92	90	
PBA Hallmark XT(Φ)*	94		104	92	
GIA Leader(Φ)*	93		111	81	
Sowing date	**29 May**	**31 May**	**24 May**	**13 Jul**	**30 May**
Rainfall J–M (mm)	**59**	**46**	**37**	**45**	**59**
Rainfall A–O (mm)	**350**	**323**	**375**	**265**	**199**

Special thanks to 2024 trial cooperator.
* herbicide-tolerant variety, [1] IMI-trial.
Learn more via the NVT Long Term Yield Reporter

Table 4: Mundulla lentil.

Year	2020	2021	2022	2023	2024[1]
Mean yield (t/ha)	2.60		2.78	1.58	1.38
GIA Thunder(Φ)*	113	Compromised trial	128	111	113
ALB Terrier(Φ)*			123	100	106
GIA Lightning(Φ)*	110		104	106	124
PBA KelpieXT(Φ)*	105		102	111	85
PBA HighlandXT(Φ)*	103		98	104	104
PBA Hurricane XT(Φ)*	99		102	99	96
PBA Hallmark XT(Φ)*	95		104	94	95
GIA Leader(Φ)*	93		105	91	93
GIA Sire(Φ)*			67	84	73
GIA Metro(Φ)*			71	74	44
Sowing date	**27 May**	**1 Jun**	**28 May**	**31 May**	**5 Jun**
Rainfall J–M (mm)	**90**	**40**	**28**	**57**	**68**
Rainfall A–O (mm)	**343**	**362**	**374**	**329**	**246**

Special thanks to 2024 trial cooperator, Smart Group.
* herbicide-tolerant variety, [1] IMI-trial.
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 2025.

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: Lentil disease guide for South Australia and Victoria.

Variety	Ascochyta blight (Pathotype 2 PBA Hurricane XT(Φ) virulent)	Ascochyta blight (Pathotype 1 Nipper(Φ) virulent)	Botrytis grey mould	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)
IMI-TOLERANT					
ALB Terrier(Φ)	MR	R	MRMS	MRMS (P)	MRMS
GIA Leader(Φ)	MR	MR	MRMS	MRMS (P)	MR (P)
GIA Lightning(Φ)	MRMS (P)	R (P)	MS	MRMS (P)	MR (P)
GIA Metro(Φ)	RMR	MR	MRMS	MRMS	MRMS (P)
GIA Sire(Φ)	MRMS (P)	R (P)	MS	MRMS	MRMS (P)
GIA Thunder(Φ)	MRMS (P)	R (P)	MRMS	MRMS	MR (P)
PBA Hallmark XT(Φ)	MRMS	RMR	MRMS	MR	MRMS
PBA HighlandXT(Φ)	MR	MR	MS	MRMS	MRMS
PBA Hurricane XT(Φ)	MRMS (P)	RMR	MS	MRMS	MRMS
PBA KelpieXT(Φ)	MRMS	MRMS	MS	MRMS	MRMS
CONVENTIONAL					
PBA Bolt(Φ)	MRMS	MR	S	MR	MR
PBA Jumbo2(Φ)	RMR	R	MS	MR	MRMS

Learn more via the NVT Disease Ratings.
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T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant,
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LUPIN

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

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

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

Table 1: Keith narrow-leaf lupin.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.59		2.01		
PBA Barlock[Φ]	103	Trial failed	140	Compromised trial	Trial failed
PBA Jurien[Φ]	106		130		
Jenabillup[Φ]	102		131		
PBA Gunyidi[Φ]	103		116		
PBA Bateman[Φ]	105		111		
Wonga	90		125		
Mandelup[Φ]	101		104		
Rosemont[Φ]			87		
Lawler[Φ]	103		83		
Gidgee[Φ]			78		
Sowing date	**11 May**	**7 May**	**20 May**	**26 May**	**7 Jun**
Rainfall J–M (mm)	**74**	**65**	**67**	**31**	**59**
Rainfall A–O (mm)	**353**	**320**	**410**	**237**	**195**

Special thanks to 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 2: Mundulla narrow-leaf lupin.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.27	1.32	1.65	0.67	
PBA Jurien[Φ]	104	108	125	116	No trial
PBA Barlock[Φ]	99	108	128	114	
Rosemont[Φ]			101	112	
PBA Bateman[Φ]	98	102	117	141	
Coyote[Φ]	107	96	99	152	
Jenabillup[Φ]	100	107	120	103	
PBA Gunyidi[Φ]	98	103	115	124	
Gidgee[Φ]		98	91	100	
Mandelup[Φ]	102	101	103	98	
Lawler[Φ]	107	98	93	103	
Sowing date	**6 May**	**6 May**	**13 May**	**29 May**	
Rainfall J–M (mm)	**90**	**40**	**28**	**57**	
Rainfall A–O (mm)	**343**	**362**	**374**	**329**	

No 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

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

Table 3: Telopea Downs narrow-leaf lupin.					
Year	2020	2021	2022	2023	2024
Mean yield (t/ha)					
	No trial	No trial	No trial	No trial	Compromised trial
Sowing date					30 May
Rainfall J–M (mm)					80
Rainfall A–O (mm)					180

Special thanks to 2024 trial cooperator.

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 2025.

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	Anthracnose	Bean yellow mosaic virus (BYMV)	Cucumber mosaic virus (CMV)	Phomopsis pod infection	Phomopsis stem infection	Sclerotinia stem rot
Coromup[Φ]	MRMS	S (P)	MR	S	MR	S (P)
Coyote[Φ]	MS	MR (P)	MRMS	MRMS	S	S (P)
Gidgee[Φ]	MRMS	S (P)	MRMS	S	MR	S (P)
Jenabillup[Φ]	MRMS		MRMS	MR	MS	S (P)
Lawler[Φ]	MS	MS (P)	MRMS	MS	MR	S (P)
Mandelup[Φ]	MRMS	S (P)	MRMS	S	MR	S (P)
PBA Barlock[Φ]	S	MS (P)	MRMS	MR	MR	S (P)
PBA Bateman[Φ]	MRMS	MR (P)	MR	S	RMR	S (P)
PBA Gunyidi[Φ]	MS	MS (P)	MRMS	MRMS	RMR	S (P)
PBA Jurien[Φ]	MS	MRMS (P)	MS	MRMS	RMR	S (P)
PBA Leeman[Φ]	MR	S (P)	MRMS	MRMS	MR	S (P)
Rosemont[Φ]	MRMS (P)	MRMS (P)	MR	MRMS	MR	S (P)
Wonga	MS	MS (P)	MR	MR	MR	S (P)

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