High rainfall South Australia, Tasmania and Victoria

March 2025

GRDC NATIONAL VARIETY TRIALS™ | CELEBRATING 20 YEARS

NVT HARVEST REPORT

INTERIM VERSION

nvt.grdc.com.au

Title: NVT Harvest Report Interim Version – High rainfall South Australia, Victoria and Tasmania

Published: March 2025

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Acknowledgements:
We would like to thank all those who provided information and assistance with the development of this Harvest Report.

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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 – High rainfall South Australia, Victoria and Tasmania provides information to support growers and advisers with decisions on variety selection for **High rainfall South Australia, Victoria and Tasmania**. 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 **High rainfall South Australia, Victoria and Tasmania** 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 – High rainfall South Australia, Victoria and Tasmania***, 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 **High rainfall South Australia, Victoria and Tasmania**.

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.

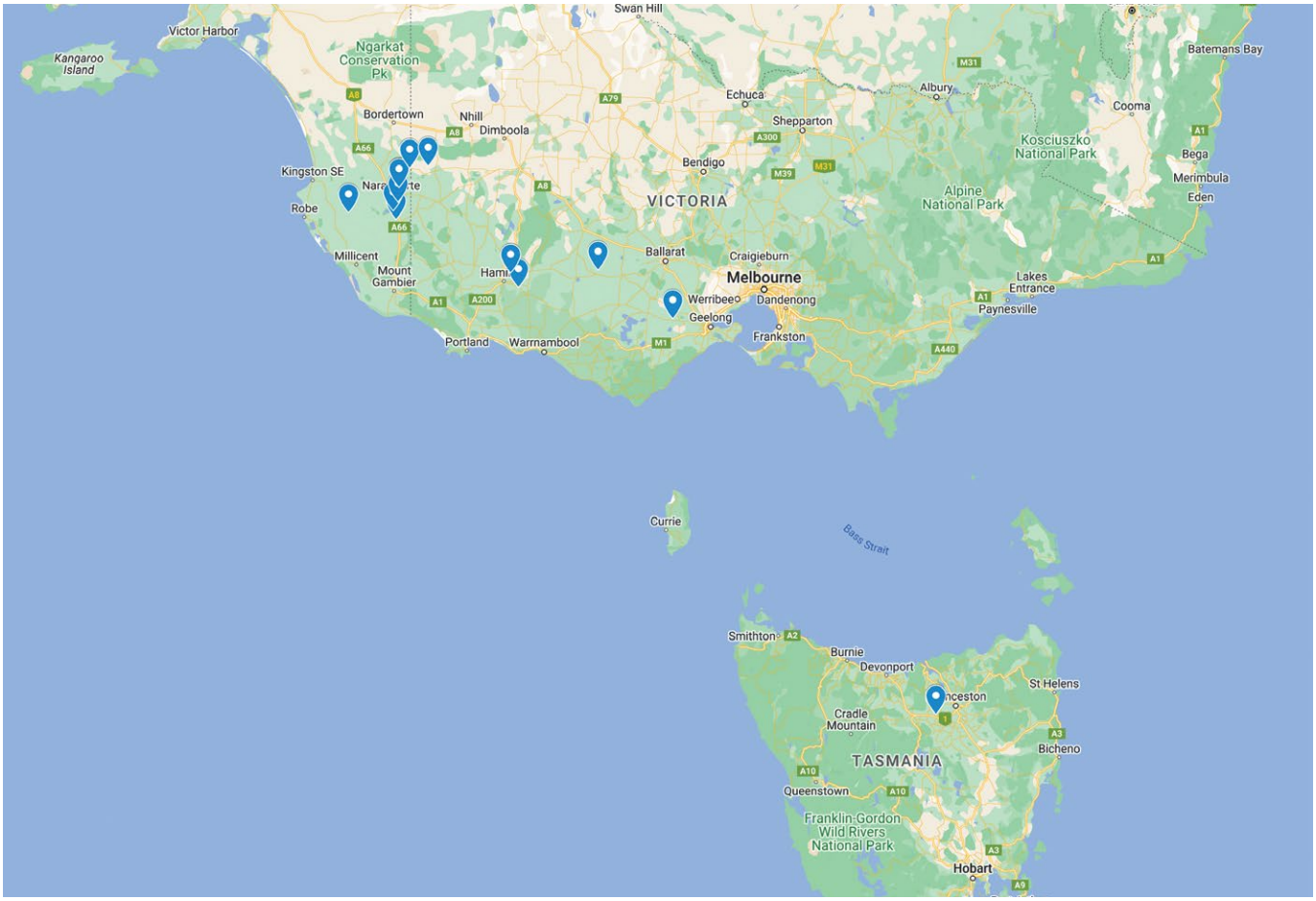
Established in 2005 by the Grains Research and Development Corporation (GRDC), the NVT program has evolved into the largest coordinated variety trial network in the world. Each year, more than 640 trials are conducted across over 300 locations nationwide, encompassing 10 different crop species. Over 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 National 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 – High rainfall South Australia, Victoria and Tasmania

Figure 1: Locality of NVT trial sites in High rainfall South Australia, Victoria and Tasmania 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]
Avoca(Φ)	Australian Grain Technologies Pty Ltd	TBC	3.90	Avoca(Φ) is ideally suited to high-rainfall zones. It has a relatively compact plant canopy and good physical grain quality characteristics. **Maturity description:** slow-very slow 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
Longford(Φ)	Australian Grain and Forage Seeds Pty Ltd	FEED	3.95	Longford(Φ) is an awned, red-grained winter wheat. It has good potential for dual-purpose use, suitable for graze-and-grain production from early planting. It has strong lodging resistance and is suitable for long-season environments. **Maturity description:** very slow winter
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
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
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.

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

Wheat variety yield performance – High rainfall South Australia, Victoria and Tasmania

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: Conmurra early season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	6.48		5.44	6.18	5.84
Triple 2(b)			Compromised trial		122	107
RGT Accroc(b)	FEED	110		127	127	98
RGT Cesario(b)	FEED	107		127	124	95
RGT Waugh(b)	FEED	104		135	119	93
LRPB Beaufort(b)	FEED	114		118	113	102
RGT Zanzibar	FEED	117		124	104	98
Wallaroo(b)					106	96
DS Bennett(b)	ASW	106		104	113	99
RockStar(b)	AH	109		101	103	109
EG Jet(b)	APW	107		115	101	97
Mowhawk(b)	APW			108		100
Genie(b)	AH				101	103
LRPB Major(b)	AH			98	100	104
Severn(b)	FEED			106	103	98
Ascot(b)	APW	99		101	98	105
Sowing date		**28 Apr**	**17 Apr**	**20 Apr**	**18 May**	**21 Jun**
Rainfall J–M (mm)		**61**	**83**	**35**	**56**	**56**
Rainfall A–O (mm)		**385**	**405**	**451**	**407**	**260**

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

Table 2: Hamilton early season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	7.97	5.13	4.48	5.28	6.95
Triple 2(b)					116	114
BigRed(b)	FEED		122	114	108	107
RGT Accroc(b)	FEED	115	124	108	109	107
LRPB Beaufort(b)	FEED	111	113	113	109	107
Willaura(b)	AH		128	93	110	109
RGT Cesario(b)	FEED	112	119	107	105	104
DS Bennett(b)	ASW	108	118	102	104	106
Stockade(b)	APW		115	104	103	105
RockStar(b)	AH	106	105	108	110	106
RGT Zanzibar	FEED	107	101	118	102	105
Wallaroo(b)					100	105
Avoca(b)					101	106
Mowhawk(b)	APW			106		103
RGT Waugh(b)	FEED	107	107	107	101	98
LRPB Major(b)	AH			105	104	104
Sowing date		**14 May**	**7 May**	**2 May**	**24 May**	**7 May**
Rainfall J–M (mm)		**85**	**107**	**80**	**111**	**62**
Rainfall A–O (mm)		**509**	**419**	**521**	**374**	**338**

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

Table 3: Inverleigh early season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	5.44	7.07	5.46	5.26	6.48
Triple 2(b)					117	113
BigRed(b)	FEED		125	130	105	103
RGT Accroc(b)	FEED	95	124	121	106	103
LRPB Beaufort(b)	FEED	107	114	114	108	107
RGT Zanzibar	FEED	111	106	125	101	105
RockStar(b)	AH	113	108	98	112	110
RGT Waugh(b)	FEED	92	120	135	96	96
Longford(b)	FEED		113	138	94	97
RGT Cesario(b)	FEED	92	120	123	101	99
Brumby(b)	APW					109
Genie(b)	AH				105	105
Mowhawk(b)	APW			107		103
EG Jet(b)	APW	104	103	116	98	100
Beckom(b)	AH	111	98	105	101	104
Ascot(b)	APW	105	104	102	103	103
Sowing date		**8 May**	**29 Apr**	**4 May**	**8 May**	**23 May**
Rainfall J–M (mm)		**112**	**94**	**133**	**67**	**31**
Rainfall A–O (mm)		**327**	**332**	**333**	**284**	**236**

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

Table 4: Streatham early season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class		7.36	5.82	5.06	
BigRed(b)	FEED	Compromised trial	127	144	91	Compromised trial
RGT Accroc(b)	FEED		126	139	92	
Triple 2(b)					110	
RGT Cesario(b)	FEED		123	138	87	
RGT Waugh(b)	FEED		111	147	85	
RGT Calabro	FEED		113	135	91	
Longford(b)	FEED		112	140	86	
LRPB Beaufort(b)	FEED		116	119	103	
RGT Zanzibar	FEED		109	117	101	
Stockade(b)	APW		118	111	94	
DS Bennett(b)	ASW		118	108	96	
Manning(b)	FEED		111	132	78	
Willaura(b)	AH		121	93	102	
Wallaroo(b)					96	
RockStar(b)	AH		103	99	115	
Sowing date		**28 Apr**	**1 May**	**10 May**	**15 May**	**15 May**
Rainfall J–M (mm)		**80**	**174**	**95**	**84**	**45**
Rainfall A–O (mm)		**385**	**409**	**461**	**265**	**215**

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

Table 5: Conmurra long season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	6.28		5.91	6.38	6.79
Longford(ф)	FEED			132	115	
BigRed(ф)	FEED			125	115	106
Triple 2(ф)						109
RGT Waugh(ф)	FEED			129	113	100
RGT Accroc(ф)	FEED	110		111	120	101
LRPB Beaufort(ф)	FEED	117		113	112	100
RGT Cesario(ф)	FEED			116	114	103
Stockade(ф)	APW		No trial	107	112	99
Manning(ф)	FEED	108		109	116	95
RGT Zanzibar	FEED	109		109	100	103
Willaura(ф)	AH			89	105	94
DS Bennett(ф)	ASW	99		81	110	98
Severn(ф)	FEED			97	92	99
Valiant(ф) CL Plus	AH			81	87	102
EGA Wedgetail(ф)	APW*	85		76	85	94
Sowing date		**16 Apr**		**20 Apr**	**4 May**	**31 May**
Rainfall J–M (mm)		**61**		**35**	**56**	**56**
Rainfall A–O (mm)		**385**		**451**	**407**	**260**

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

Table 6: Cressy/Westbury long season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	10.77	11.05	10.36	7.07	10.45
BigRed(ф)	FEED		120	120	111	113
Anapurna	FEED	112	115	122	112	113
Triple 2(ф)					115	115
Longford(ф)	FEED		119	119	111	108
RGT Cesario(ф)	FEED	113	123	114	106	111
RGT Waugh(ф)	FEED	112	119	115	107	105
RGT Accroc(ф)	FEED	110	118	110	106	108
Manning(ф)	FEED	111	115	100	105	95
Stockade(ф)	APW			105	103	101
RGT Zanzibar	FEED	96	91	108	103	103
DS Bennett(ф)	ASW	103	107	90	98	99
LRPB Beaufort(ф)	FEED	96	90	109	104	101
Brighton(ф)					102	98
Severn(ф)	FEED		96	96	99	97
EG Jet(ф)	APW	90	83	99	95	104
Sowing date		**14 Apr**	**24 Apr**	**27 Apr**	**25 Apr**	**24 Apr**
Rainfall J–M (mm)		**170**	**159**	**85**	**103**	**113**
Rainfall A–O (mm)		**369**	**512**	**452**	**341**	**504**
Irrigation A–O (mm)					**63**	

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

Table 7: Hamilton long season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	7.98	4.75		5.68	6.65
RGT Accroc(ф)	FEED	119	132		107	110
RGT Cesario(ф)	FEED	119	128		108	108
BigRed(ф)	FEED		117		116	110
Triple 2(ф)						111
Anapurna	FEED	112	108		117	107
Longford(ф)	FEED		109		114	106
DS Bennett(ф)	ASW	104	124		98	108
RGT Waugh(ф)	FEED	106	109	Trial failed	108	104
Stockade(ф)	APW		111		103	103
LRPB Beaufort(ф)	FEED	106	101		106	101
Manning(ф)	FEED	90	108		105	108
RGT Zanzibar	FEED	103	91		106	98
Brighton(ф)					105	104
Valiant(ф) CL Plus	AH		93		95	96
Illabo(ф)	AH	97	93		95	95
Sowing date		**19 Apr**	**15 Apr**	**18 Apr**	**20 Apr**	**19 Apr**
Rainfall J–M (mm)		**85**	**107**	**80**	**111**	**62**
Rainfall A–O (mm)		**509**	**419**	**521**	**374**	**338**

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

Table 8: Streatham long season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class			5.91	5.42	
Anapurna	FEED			125	113	
Longford(ф)	FEED			134	101	
BigRed(ф)	FEED			126	109	
RGT Calabro	FEED			126	101	
RGT Waugh(ф)	FEED			133	92	
RGT Cesario(ф)	FEED	Compromised trial	Compromised trial	122	98	Compromised trial
RGT Accroc(ф)	FEED			115	103	
LRPB Beaufort(ф)	FEED			104	115	
RGT Zanzibar	FEED			100	114	
Manning(ф)	FEED			119	91	
Stockade(ф)	APW			104	107	
Mammoth(ф)	APW			87	115	
Brighton(ф)					112	
Severn(ф)	FEED			97	97	
Willaura(ф)	AH			86	107	
Sowing date		**15 Apr**	**13 Apr**	**18 Apr**	**26 Apr**	**12 Apr**
Rainfall J–M (mm)		**80**	**174**	**95**	**84**	**45**
Rainfall A–O (mm)		**385**	**409**	**461**	**265**	**215**

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

Wheat variety quality – High rainfall South Australia, Victoria and Tasmania

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 High rainfall South Australia, Victoria and Tasmania 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 early season wheat varieties from four NVT sites in High Rainfall Zone in 2023.

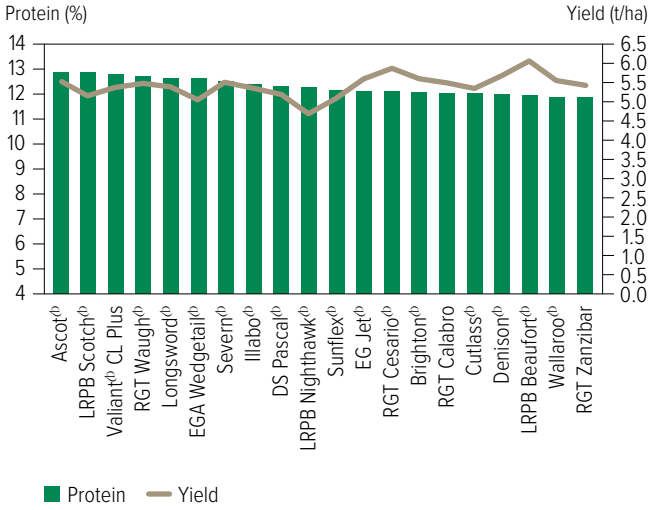


Figure 2: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from three NVT sites in High Rainfall Zone in 2024.

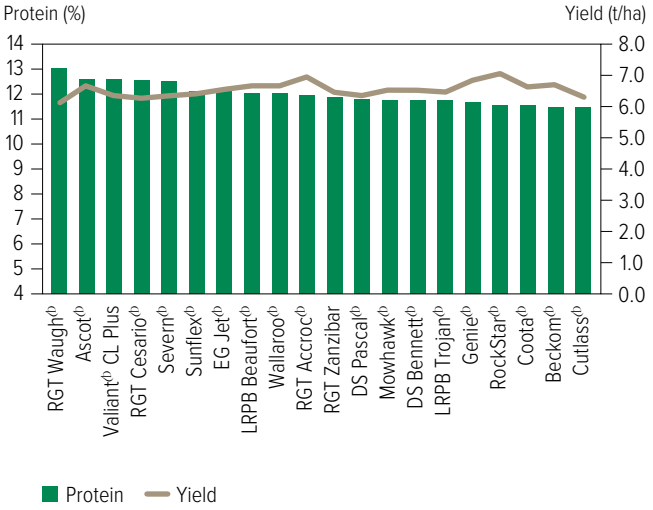


Figure 3: Protein (%) and yield (t/ha) comparisons for long season wheat varieties from four NVT sites in High Rainfall Zone in 2023.

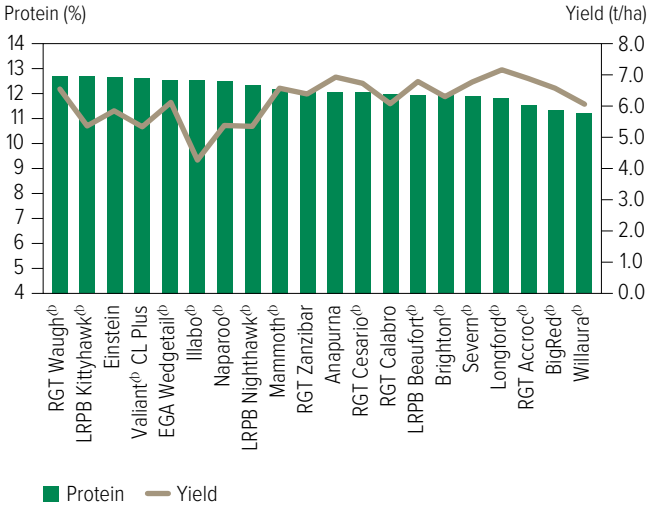
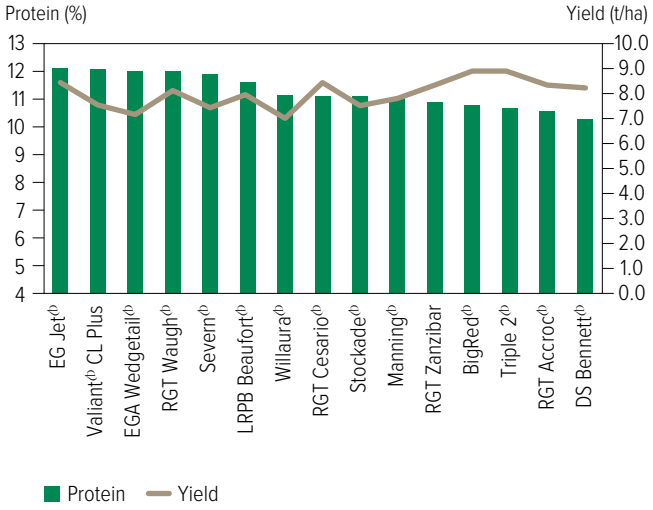


Figure 4: Protein (%) and yield (t/ha) comparisons for long season wheat varieties from three NVT sites in High Rainfall Zone in 2024.



Test weight comparisons

Figure 5: Test weight (kg/hL) comparisons for early season wheat varieties from four NVT sites in High Rainfall Zone in 2023.

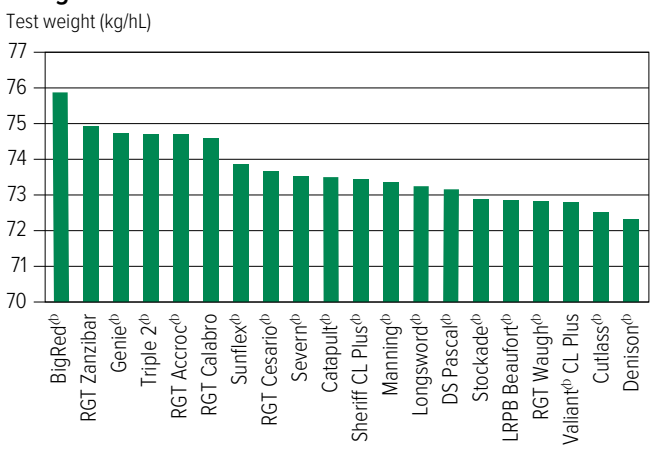


Figure 6: Test weight (kg/hL) comparisons for early season wheat varieties from three NVT sites in High Rainfall Zone in 2024.

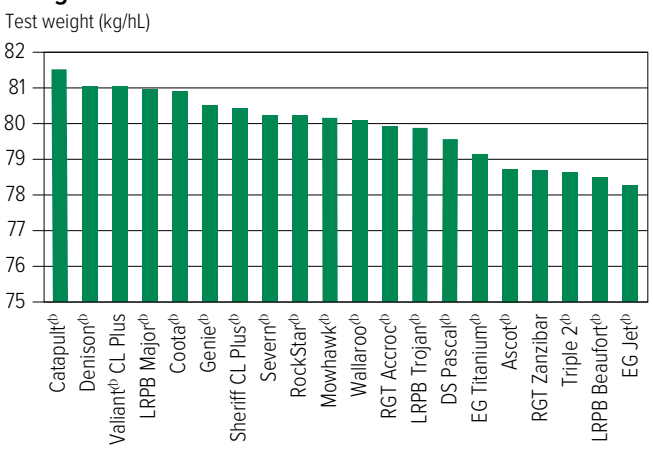


Figure 7: Test weight (kg/hL) comparisons for long season wheat varieties from four NVT sites in High Rainfall Zone in 2023.

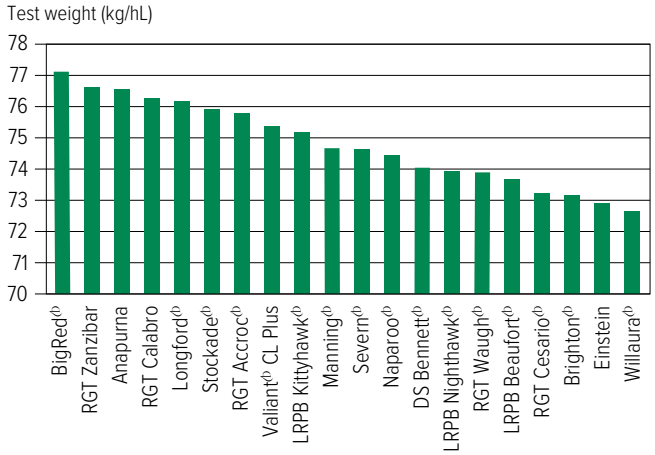
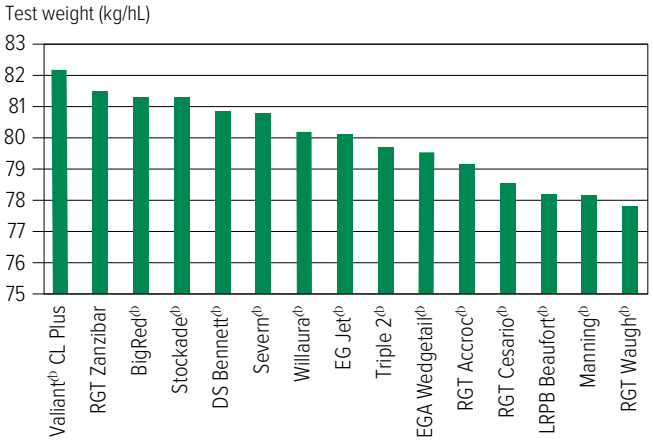


Figure 8: Test weight (kg/hL) comparisons for long season wheat varieties from three NVT sites in High Rainfall Zone in 2024.



Screenings comparisons

Figure 9: Screenings (<2.0mm) comparisons for early season wheat varieties from four NVT sites in High Rainfall Zone in 2023.

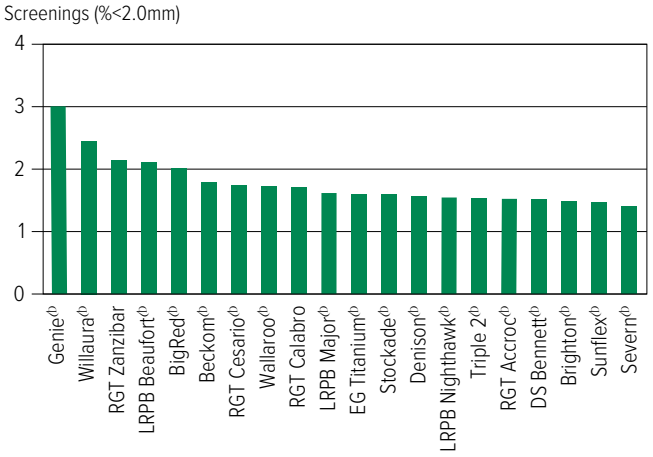


Figure 10: Screenings (<2.0mm) comparisons for early season wheat varieties from three NVT sites in High Rainfall Zone in 2024.

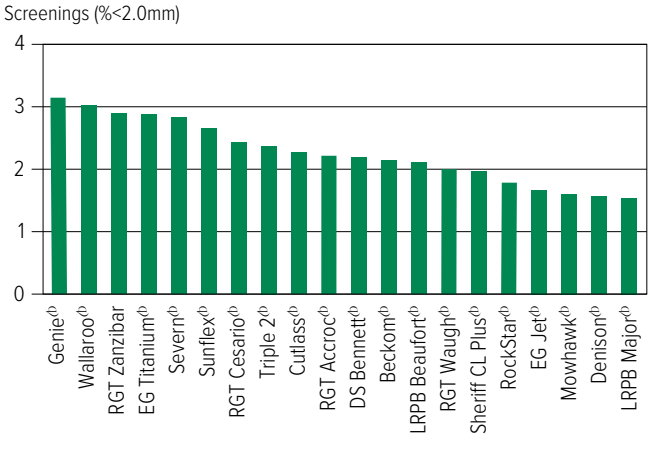


Figure 11: Screenings (<2.0mm) comparisons for long season wheat varieties from four NVT sites in High Rainfall Zone in 2023.

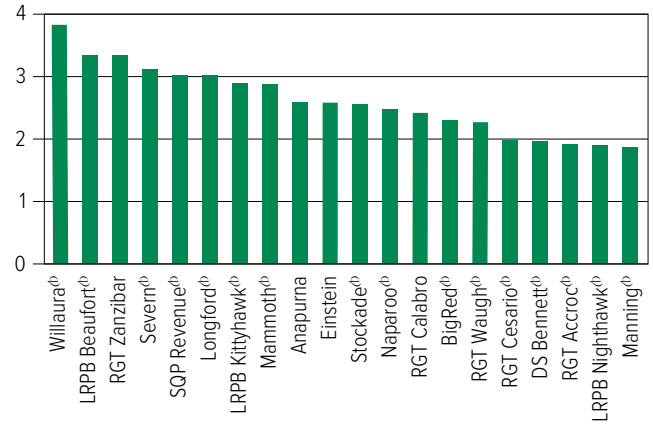
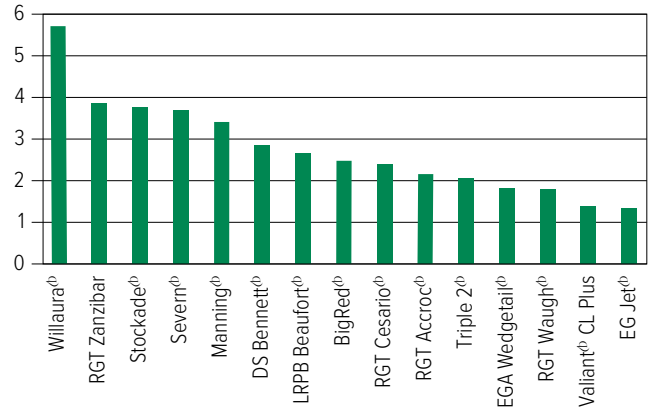


Figure 12: Screenings (<2.0mm) comparisons for long season wheat varieties from three NVT sites in High Rainfall Zone in 2024.



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, Victorian and Tasmanian growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and tolerance ratings.

Table 9: 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	
Ascot(Þ)	MRMS	MSS	RMR	S	MRMS	S	S	S	MR	S	S	
Avoca(Þ)	MRMS	MRMS	MSS	MSS	MSS	MS	R (P)	MSS	S (P)	S (P)	MSS (P)	
Ballista(Þ)	MR	MSS	S	SVS	MS	SVS	S	MRMS	MRMS	S	S	
Beckom(Þ)	MRMS	MRMS	MSS	S	MSS	S	S	MSS	R		S	
BigRed(Þ)	S	RMR	MRMS	MR	MR	RMR	MRMS	MS	S		MSS	
Boa(Þ)	MS	MRMS	MR	S	MRMS	S	S	VS	R (P)	S (P)	MSS (P)	
Boree(Þ)	MR	SVS	S	SVS	MRMS	SVS	S	MSS	MSS		S	
Brighton(Þ)	MRMS	MRMS	S	S	MRMS	SVS	S	MS	R	MSS	S	
Brumby(Þ)	MR	MS	SVS	S	MRMS	MSS	MRMS	MS	MRMS	S	S	
Calibre(Þ)	MR	S	S	S	MRMS	MSS	S	MSS	MRMS	S	S	
Catapult(Þ)	MR	S	S	MSS	MRMS	S	S	MS	R	S	MSS	
Chief CL Plus(Þ)	MR	SVS	MR	S	MRMS	SVS	MRMS	MSS	MS	MSS	MSS	
Coolah(Þ)	MR	MSS	RMR	MSS	MSS	MSS	S	MS	S		MSS	
Coota(Þ)	RMR	S	MR	S	MSS	S	MR	MS	MR	S	MSS	
Cutlass(Þ)	R	MSS	RMR	MSS	MSS	MSS	MSS	MSS	MR		S	
Denison(Þ)	MS	S	S	MSS	MRMS	S	S	S	MS	S	MSS	
Devil(Þ)	S	SVS	SVS	SVS	MRMS	S	MSS	S	MSS	S	MSS	
Dozer(Þ) CL Plus	MS	S	S	S	MRMS	S	MRMS	S	MS	SVS	S	
DS Bennett(Þ)	MS	S	SVS	MSS	MRMS	R	S	S	S		VS	
DS Pascal(Þ)	MSS	MRMS	MRMS	MSS	MS	RMR	S	S	S		S	
EG Jet(Þ)	S	MRMS	MSS	MSS	MRMS	SVS	S	S	MRMS		S	
EG Titanium(Þ)	MS	MR	MS	MSS	MSS	S	MSS	MSS	R	S	MSS	
EGA Wedgetail(Þ)	MRMS	MS	MSS	MSS	MSS	MSS (P)	S	VS	S		S	
Genie(Þ)	MRMS	MSS	S	S	MRMS (P)	SVS	MS (P)	MRMS	MSS (P)	S (P)	MS (P)	
Hammer CL Plus(Þ)	MR	MS	S	MSS	MRMS	S	MSS	S	MRMS	S	MSS	
Hyperno(Þ)	RMR	MRMS	RMR	MS	MRMS	MSS	MS	RMR	MS		SVS	
Illabo(Þ)	MR	MRMS	S	MSS	MS	RMR	MSS	MSS	MRMS	S	S	
Ironbark(Þ)	MS	MR	MRMS	S	MSS	S	S	MR (P)	MS (P)	S (P)	MSS (P)	
Jillaroo(Þ)	MS	S	S	S	MS	SVS	S	MS (P)	MS	S	S	
Kingston(Þ)	S	MSS	S	S	MSS	S	S	MR	R	S	S	
Lancelin(Þ)	MRMS	MSS	MSS	SVS	MRMS	S	SVS	MS	MRMS	S	S	
Longford(Þ)	RMR	RMR	RMR	MRMS/S	MRMS	RMR	S	S	MS	MSS (P)	MSS	
Longsword(Þ)	MR	MRMS/MS	MSS	MS	MRMS	S	MRMS	MRMS	MRMS	S	MSS	
LRPB Anvil(Þ) CL Plus	MR	S	SVS	VS	MSS	SVS	MSS	S	MS	S	MSS	
LRPB Avenger(Þ)	MS	S	SVS	S	MS	SVS	MSS	MRMS	MRMS	S	S	

Continued on next page

Table 9: 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 Bale(Þ	MRMS	MRMS	MSS	MSS	SVS	MRMS	S	S	R	S	S	
LRPB Beaufort(Þ	SVS	RMR	MSS	S	MRMS	R (P)	MS	MSS	MS		S	
LRPB Dual(Þ	MRMS	MS	MSS	MSS	S	S	MSS	MSS	R	S	S	
LRPB Impala(Þ	MR	MRMS	SVS	SVS	MSS	MR	SVS	S	MSS		MSS	
LRPB Kittyhawk(Þ	MRMS	MR	MR	MRMS	MRMS	MS	S	S	S	S	SVS	
LRPB Major(Þ	MRMS	MRMS	MR	MSS	MS	MSS	S	MSS	MRMS	S	MSS	
LRPB Matador(Þ	MS	MS	MSS	S	MRMS	MSS	S	MS	MS (P)	S (P)	S	
LRPB Nighthawk(Þ	RMR	MR	MS	MS	MS	SVS	MSS	MS	MS		MSS	
LRPB Optimus(Þ	MR	MRMS	RMR	S	MSS	MSS	MSS	MS	MS	S	MSS	
LRPB Oryx(Þ	MR	MRMS	RMR#	SVS	MSS	MR	MSS	MSS	S	S	MSS	
LRPB Raider(Þ	RMR	MR	RMR	S	MSS	S	MSS	MS	S		S	
LRPB Scotch(Þ	MSS	MRMS	MR#	S	MRMS	MR	MS	S	MS	S	S	
LRPB Scout(Þ	MRMS	MS	MS	S	SVS	S	S	MSS	R		S	
LRPB Trojan(Þ	MRMS	S	MR	S	MSS	S	MSS	MSS	MS	MS	MS	
Mace(Þ	MRMS	SVS	S	SVS	MRMS	MSS	MS	MS	MRMS	S	S	
Mammoth(Þ	MR	MSS	MRMS	MSS	MRMS	SVS	MSS	MRMS	MSS	MSS	S	
Manning(Þ	MR	MR	MSS	MRMS/S	MRMS	MRMS	MSS	S	S	MS (P)	VS	
Mowhawk(Þ	RMR (P)		MR (P)	MSS (P)	MRMS (P)	MR				MSS (P)		
Naparoo(Þ	MRMS	MRMS	MS	S	MRMS	MR (P)	SVS	S			S	
Packer(Þ	MR	MRMS	MR	MSS	MS	MSS	S	S	R (P)	S (P)	MS (P)	
Razor CL Plus(Þ	MRMS	MRMS	S	SVS	MSS	MSS	S	MS	MR	S	S	
Reilly(Þ	MRMS	MS	MSS	S	S	MSS	MS	MSS	R	S	S	
RGT Accroc(Þ	MRMS	MRMS	S	MS	MRMS	MRMS	MS	MSS	S	MSS (P)	SVS	
RGT Calabro	MS	MRMS	MS	MRMS	MR	RMR	S	MS	S		SVS	
RGT Cesario(Þ	RMR	MRMS	RMR	MRMS	MR	RMR	MRMS	MSS	MSS (P)		VS	
RGT Ponsford(Þ	RMR	MS	MR	MSS	MS	MSS	MSS	S	MRMS	S	MSS	
RGT Waugh(Þ	MS	MR	S	MRMS#	MRMS	RMR	MSS	MSS	MS		S	
RGT Zanzibar	VS	RMR	SVS	MSS	MS	RMR	S	MS (P)	MSS		S	
RockStar(Þ	MRMS	S	S	S	MRMS	SVS	MRMS	MS	MSS	S	S	
Saintly	MS	MRMS	RMR	MRMS/S	MRMS	S (P)	MS	RMR	MS		VS (P)	
Scepter(Þ	MRMS	S	MSS	S	MRMS	SVS	S	MSS	MRMS	S	MSS	
Severn(Þ	MRMS	MR	MR	MSS	MRMS	RMR	S	MRMS	MSS (P)		S	
Sheriff CL Plus(Þ	MS	SVS	SVS	S	MRMS	SVS	MRMS	MS	MS	S	S	
Shotgun(Þ	MRMS	MSS	MSS	S (P)	MRMS	S	MS (P)	MRMS	R (P)	S (P)	MS (P)	
Soaker(Þ	MRMS	S	MSS	S	MRMS	S	S	S	MRMS (P)	S (P)	MS (P)	
Stockade(Þ	MS	MR	MR	MS	MRMS	SVS	S	MSS	MRMS	MSS (P)	S	
Sunblade CL Plus(Þ	MS	MRMS	MSS	S	MSS	S	MSS	MRMS	MSS		S	
Sunflex(Þ	MR	MRMS	RMR	SVS	MS	S	S	MSS	MS		MSS	
Sunmaster(Þ	MS	MRMS	RMR	S	MSS	S	MRMS	MS	MSS		MSS	
Tomahawk CL Plus(Þ	MR	S	S	S	MRMS	SVS	S	MS	MRMS	S	MSS	
Triple 2(Þ	MR (P)	RMR (P)	MRMS	MR	MR (P)	MRMS	R (P)	MR	MS (P)		MRMS (P)	
Valiant(Þ CL Plus	MRMS	S	S	MSS	MRMS	VS	S	S (P)	MSS (P)	MSS	MSS	
Vixen(Þ	MRMS	SVS	SVS	S	MRMS	SVS	MRMS	MS	MSS	S	S	

Continued on next page

Table 9: 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*
Wallaroo(Ф)	RMR	RMR	RMR	MSS	MRMS	S	MS	MRMS	R	S	MSS	
Willaura(Ф)	MR	S	MRMS	S	MS	SVS	MSS	MRMS	MS	MSS (P)	S	
Yitpi	S	MS	MSS	S	SVS	MS	MSS	S	MR		S	
Zen(Ф)	S (MRMS)	S	S	S	MRMS	MSS	MRMS	S	S		S	
DURUM												
Bitalli(Ф)	RMR	MRMS	MR	MSS	MRMS	S	MSS	RMR	MSS		SVS	
Caparoi(Ф)	MR	MRMS	RMR	MRMS/S	MRMS	S	MS	MR	MRMS (P)		VS	
DBA Bindaroi(Ф)	MR	MRMS	RMR	MS	MS	S	MRMS	MR	MS		SVS	
DBA Lillaroi(Ф)	RMR	MRMS	RMR	S	MRMS	S	MRMS	RMR	S		SVS	
DBA Mataroi(Ф)	MRMS	MRMS	MR	MSS	MRMS	S	MS	RMR	MRMS		SVS	
DBA Vittaroi(Ф)	MR	MRMS	RMR	MSS	MRMS	MSS	MS	MR	S		SVS	
DBA-Aurora(Ф)	RMR	MR	RMR	MRMS/S	MRMS	MSS	MRMS	RMR	MSS		SVS	
Jandaroi(Ф)	MRMS (R)	MRMS	RMR	MSS	MRMS	S (P)	MS	MRMS	MS		VS	
Patron(Ф)	RMR	MRMS	RMR	MRMS	MRMS	S	MRMS	MR	S		SVS	
Westcourt(Ф)	RMR	MR	RMR	S	MRMS	MSS	MS	MR	MSS		VS	

* ratings will be updated when available. Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible,
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 10: 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(Þ)	MRMS	MSS	RMR	S	MRMS	S	S	MR	S	S
Avoca(Þ)	MRMS	MRMS	MSS	MSS	MSS	MS	MSS (P)	S (P)	R (P)	MSS
Ballista(Þ)	MR	MSS	S	SVS	MS	SVS	S	MRMS	S	MRMS
Beckom(Þ)	MRMS	MRMS	MSS	S	MSS	S	S	R	S	MSS
BigRed(Þ)	S	RMR	MRMS	MR	MR	RMR	MSS	S	MRMS	MS
Boa(Þ)	MS	MRMS	MR	S	MRMS	S	MSS (P)	R (P)	S	VS
Boree(Þ)	MR	SVS	S	SVS	MRMS	SVS	S	MSS	S	MSS
Brighton(Þ)	MRMS	MRMS	S	S	MRMS	SVS	S	R	S	MS
Brumby(Þ)	MR	MS	SVS	S	MRMS	MSS	S	MRMS	MRMS	MS
Calibre(Þ)	MR	S	S	S	MRMS	MSS	S	MRMS	S	MSS
Catapult(Þ)	MR	S	S	MSS	MRMS	S	MSS	R	S	MS
Chief CL Plus(Þ)	MR	SVS	MR	S	MRMS	SVS	MSS	MS	MRMS	MSS
Coolah(Þ)	MR	MSS	RMR	MSS	MSS	MSS	MSS	S	S	MS
Coota(Þ)	RMR	S	MR	S	MSS	S	MSS	MR	MR	MS
Cutlass(Þ)	R	MSS	RMR	MSS	MSS	MSS	S	MR	MSS	MSS
Denison(Þ)	MS	S	S	MSS	MRMS	S	MSS	MS	S	S
Dozer(Þ) CL Plus	MS	S	S	S	MRMS	S	S	MS	MRMS	S
DS Bennett(Þ)	MS	S	SVS	MSS	MRMS	R	VS	S	S	S
DS Pascal(Þ)	MSS	MRMS	MRMS	MSS	MS	RMR	S	S	S	S
EG Jet(Þ)	S	MRMS	MSS	MSS	MRMS	SVS	S	MRMS	S	S
EG Titanium(Þ)	MS	MR	MS	MSS	MSS	S	MSS	R	MSS	MSS
EGA Gregory(Þ)	MR	MS	MR	MSS	S	MSS	S	S	S	MSS
EGA Wedgetail(Þ)	MRMS	MS	MSS	MSS	MSS	MSS (P)	S	S	S	VS
Genie(Þ)	MRMS	MSS	S	S	MRMS (P)	SVS	MS (P)	MSS (P)	MS (P)	MRMS
Hammer CL Plus(Þ)	MR	MS	S	MSS	MRMS	S	MSS	MRMS	MSS	S
Hyperno(Þ)	RMR	MRMS	RMR	MS	MRMS	MSS	SVS	MS	MS	RMR
Illabo(Þ)	MR	MRMS	S	MSS	MS	RMR	S	MRMS	MSS	MSS
Ironbark(Þ)	MS	MR	MRMS	S	MSS	S	MSS (P)	MS (P)	S	MR (P)
Jillaroo(Þ)	MS	S	S	S	MS	SVS	S	MS	S	MS (P)
Kingston(Þ)	S	MSS	S	S	MSS	S	S	R	S	MR
Lancelin(Þ)	MRMS	MSS	MSS	SVS	MRMS	S	S	MRMS	SVS	MS
Leverage(Þ)	MR	MRMS	RMR	S	MRMS	SVS	S	MS	S	MS
Longford(Þ)	RMR	RMR	RMR	MRMS/S	MRMS	RMR	MSS	MS	S	S
Longsword(Þ)	MR	MRMS/MS	MSS	MS	MRMS	S	MSS	MRMS	MRMS	MRMS
LRPB Anvil(Þ) CL Plus	MR	S	SVS	VS	MSS	SVS	MSS	MS	MSS	S
LRPB Avenger(Þ)	MS	S	SVS	S	MS	SVS	S	MRMS	MSS	MRMS
LRPB Bale(Þ)	MRMS	MRMS	MSS	MSS	SVS	MRMS	S	R	S	S
LRPB Beaufort(Þ)	SVS	RMR	MSS	S	MRMS	R (P)	S	MS	MS	MSS
LRPB Dual(Þ)	MRMS	MS	MSS	MSS	S	S	S	R	MSS	MSS
LRPB Hellfire(Þ)	MR	MRMS	MSS	S	MSS	S	MSS	MS	MSS	MSS
LRPB Impala(Þ)	MR	MRMS	SVS	SVS	MSS	MR	MSS	MSS	SVS	S
LRPB Kittyhawk(Þ)	MRMS	MR	MR	MRMS	MRMS	MS	SVS	S	S	S
LRPB Lancer(Þ)	R	RMR	RMR	MSS	MS	MR	MSS	S	S	MS

Continued on next page

Table 10: 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 Major(b)	MRMS	MRMS	MR	MSS	MS	MSS	MSS	MRMS	S	MSS
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
Saintly	MS	MRMS	RMR	MRMS/S	MRMS	S (P)	VS (P)	S	MS	RMR
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 10: 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
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
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 11: An industry guide for wheat variety maturity description.

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

Source: Australian Crop Breeders Ltd

Wheat optimum time of sowing – an example for High rainfall South Australia, Victoria and Tasmania

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

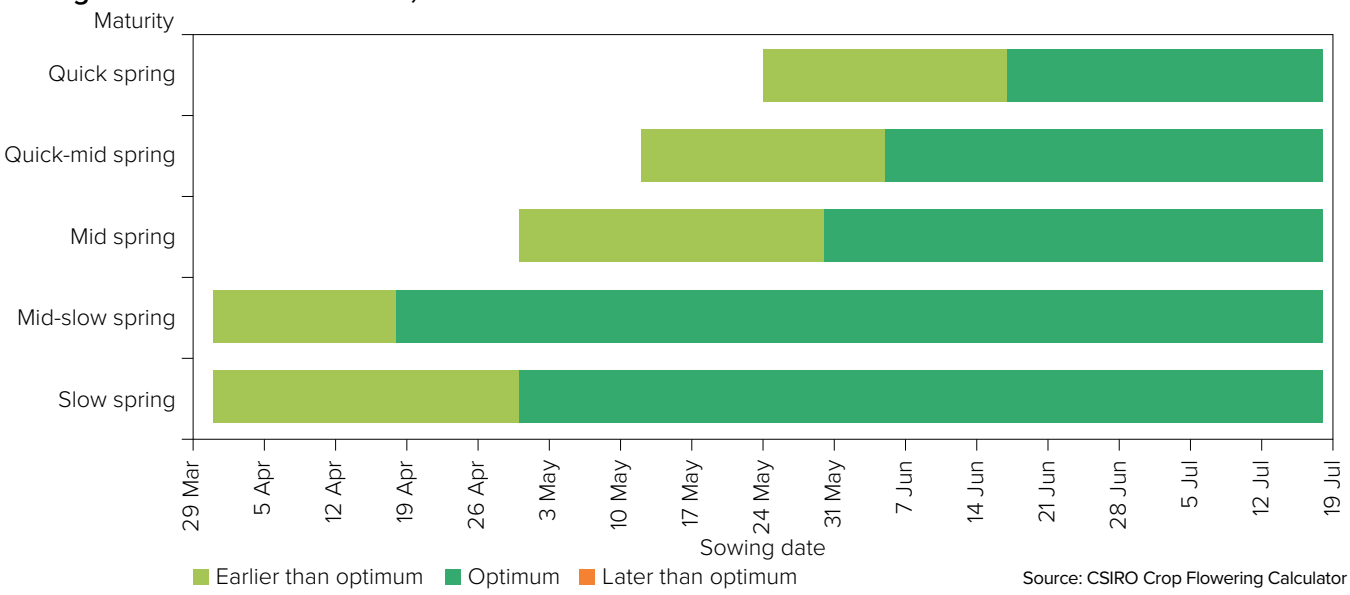
Growers and advisers are encouraged to use the Crop Flowering Calculator to compare the impact of specific variety selection and sowing date for the ideal flowering window at their own location. The Crop Flowering Calculator is a simple phenology (maturity) model that uses 60 years of local weather data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

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

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

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

Figure 13: Optimum time of sowing by variety maturity for Hamilton as an example for High rainfall South Australia, Victoria and Tasmania.



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]
Newton	Secobra Recherches	FEED	3.50	Newton is a dual-purpose grain-and-graze variety. It has slow development and requires winter vernalisation. It has a highly competitive plant type with high total biomass production. It is a two-row feed grain with high yield potential.
PegasusAX(Φ)	Australian Grain Technologies Pty Ltd	FEED	4.15	PegasusAX(Φ) carries CoAXium herbicide tolerance (Aggressor® AX herbicide) and is a derivative of Rosalind(Φ), with a similar plant type. It has similar grain size as some other high-yielding feed varieties and is feed quality only. PegasusAX(Φ) has a quick-mid spring maturity.
RGT Atlantis(Φ)	RAGT	Under malt evaluation	4.25	RGT Atlantis(Φ) is a new waterlogging-tolerant barley with high yield potential in the medium to high-rainfall zones. It is bred from RGT Planet(Φ) and has a similar maturity. It is the same plant structure and height as RGT Planet(Φ). RGT Atlantis(Φ) has a quick-mid spring maturity.
Spinnaker(Φ)	Secobra Recherches	Under malt evaluation	4.00	Spinnaker(Φ) has (Fathom(Φ) x RGT Planet(Φ)) x European malt breeding line heritage. It is two to three days earlier maturing than RGT Planet(Φ) with a May planting and has slightly shorter plant height than RGT Planet(Φ).

*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. 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 – High rainfall South Australia, Victoria and Tasmania

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: Conmurra long season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	5.25		5.40	5.79	5.92
Cyclops(ф)	124		134	108	125
Leabrook(ф)	115		130	98	118
Rosalind(ф)	120		133	93	105
Neo(ф) CL*				105	115
Minotaur(ф)	111		111	105	111
PegasusAX(ф)*					105
Maximus(ф) CL*	105		103	99	105
Laperouse(ф)	105	No trial	99	102	103
Spartacus CL(ф)*	110		109	92	98
Kiwi	97		99	102	105
Zena(ф) CL*			104	98	88
Spinnaker(ф)			108	95	73
Bottler(ф)	91		90	105	100
RGT Planet(ф)	112		102	99	76
Alestar(ф)	100		90	102	84
Sowing date	**16 Apr**		**19 May**	**18 May**	**31 May**
Rainfall J–M (mm)	**61**		**35**	**56**	**56**
Rainfall A–O (mm)	**385**		**451**	**407**	**260**

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

Table 2: Cressy/Westbury long season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	10.31	9.94	8.46	7.77	8.80
Neo(ф) CL*				115	111
Rosalind(ф)	111	111	122	107	107
Spinnaker(ф)		109	110	112	104
RGT Planet(ф)	110	110	103	115	105
Zena(ф) CL*			105	112	106
Fandaga(ф)		98	108	105	103
Leabrook(ф)	101	101	111	98	100
RGT Atlantis(ф)				107	99
Cyclops(ф)	104	100	102	103	101
Maximus(ф) CL*	107	93	106	96	101
PegasusAX(ф)*					101
Alestar(ф)	97	101	91	104	97
Westminster(ф)	92	99	100	94	97
Urambie	86	102	103	91	96
Kiwi	93	97	94	96	96
Sowing date	**4 May**	**12 May**	**11 May**	**18 May**	**10 May**
Rainfall J–M (mm)	**170**	**159**	**85**	**103**	**113**
Rainfall A–O (mm)	**369**	**512**	**452**	**341**	**504**
Irrigation A–O (mm)				**27**	

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

Table 3: Hamilton long season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	6.04		5.25	4.19	8.33
Fandaga(ф)			109	109	98
Spinnaker(ф)			115	99	92
RGT Planet(ф)	125		116	95	91
Rosalind(ф)	101		100	120	104
Maximus(ф) CL*	93		94	120	109
Neo(ф) CL*				117	106
Zena(ф) CL*			108	97	95
Cyclops(ф)	103		102	112	104
Bottler(ф)	106		102	102	101
RGT Atlantis(ф)		Compromised trial		80	88
PegasusAX(ф)*					105
Laperouse(ф)	97		99	100	102
Alestar(ф)	114		111	81	90
Leabrook(ф)	92		95	112	104
Minotaur(ф)	100		103	90	97
Sowing date	**14 May**	**7 May**	**2 May**	**25 May**	**7 May**
Rainfall J–M (mm)	**85**	**107**	**80**	**111**	**62**
Rainfall A–O (mm)	**509**	**419**	**521**	**374**	**338**

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

Table 4: Inverleigh long season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	6.28	8.46	6.33	4.75	3.95
Cyclops(ф)	105	104	117	116	112
Rosalind(ф)	112	105	113	107	106
Spinnaker(ф)		107	94	101	105
Fandaga(ф)		109	90	105	103
RGT Planet(ф)	107	105	91	100	103
Leabrook(ф)	104	101	116	106	106
Maximus(ф) CL*	102	105	106	112	104
Neo(ф) CL*				111	102
Minotaur(ф)	96	99	105	102	106
Zena(ф) CL*			96	97	99
Laperouse(ф)	96	101	102	104	104
Spartacus CL(ф)*	95	99	105	94	103
Bottler(ф)	102	100	96	103	97
Alestar(ф)	97	100	89	94	99
RGT Atlantis(ф)				92	98
Sowing date	**11 May**	**5 May**	**3 May**	**19 May**	**22 May**
Rainfall J–M (mm)	**112**	**94**	**133**	**67**	**31**
Rainfall A–O (mm)	**327**	**332**	**333**	**284**	**236**

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

Table 5: Streatham long season barley.					
Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	7.19	9.30	6.75	4.79	
Cyclops[Ф]	112	107	112	121	
Rosalind[Ф]	111	102	121	115	
Spinnaker[Ф]		111	103	109	
RGT Planet[Ф]	105	114	96	105	
Neo[Ф] CL*				107	
Leabrook[Ф]	106	99	117	111	
Zena[Ф] CL*			99	99	
Fandaga[Ф]		99	102	110	
Minotaur[Ф]	101	103	99	105	
Maximus[Ф] CL*	103	91	110	112	
Alestar[Ф]	98	109	88	95	
RGT Atlantis[Ф]				93	
Bottler[Ф]	100	103	92	97	
Laperouse[Ф]	100	96	101	105	
Kiwi	98	101	96	96	
Sowing date	**15 May**	**8 May**	**11 May**	**16 May**	**16 May**
Rainfall J–M (mm)	**80**	**174**	**95**	**84**	**45**
Rainfall A–O (mm)	**385**	**409**	**461**	**265**	**215**

Compromised trial

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

Barley variety quality – High rainfall South Australia, Victoria and Tasmania

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 High rainfall South Australia, Victoria and Tasmania 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 long season barley varieties from five NVT sites in High Rainfall Zone in 2023.

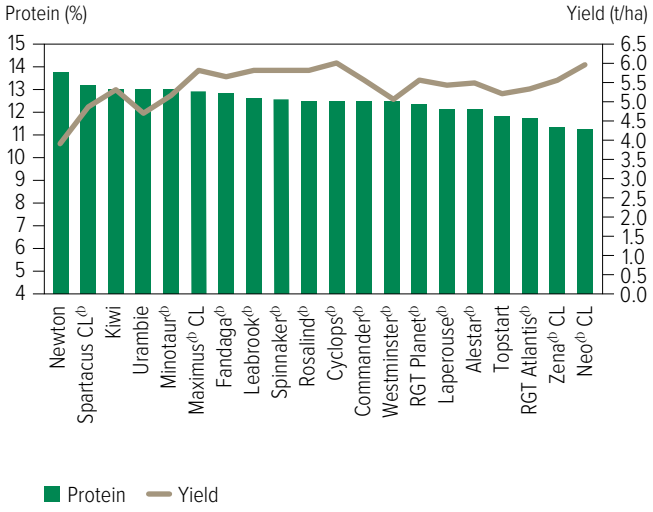
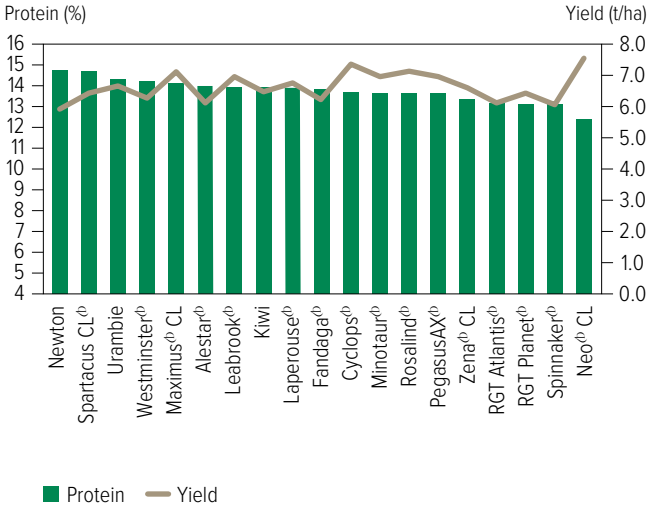


Figure 2: Protein (%) and yield (t/ha) comparisons for long season barley varieties from four NVT sites in High Rainfall Zone in 2024.



Test weight comparisons

Figure 3: Test weight (kg/hL) comparisons for long season barley varieties from five NVT sites in High Rainfall Zone in 2023.

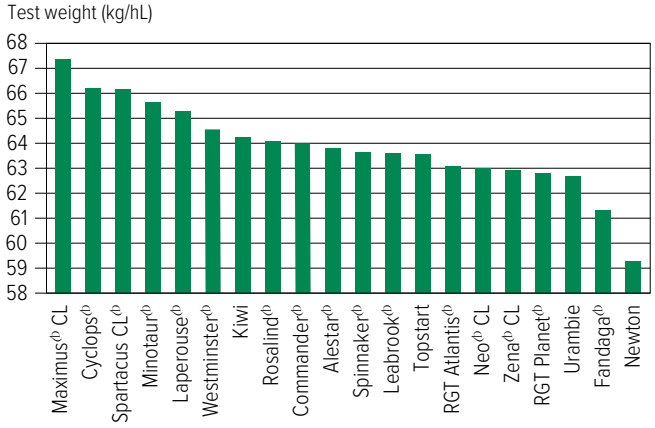
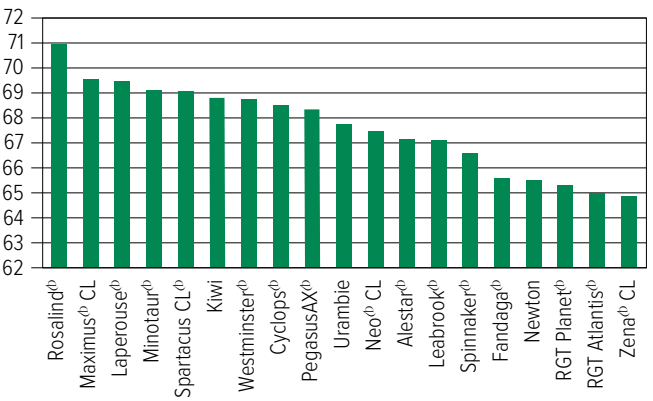


Figure 4: Test weight (kg/hL) comparisons for long season barley varieties from four NVT sites in High Rainfall Zone in 2024.



Screenings comparisons

Figure 5: Screenings (<2.2mm) comparisons for long season barley varieties from five NVT sites in High Rainfall Zone in 2023.

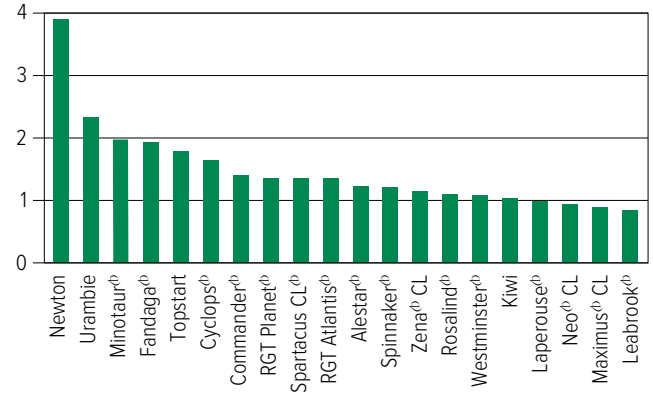
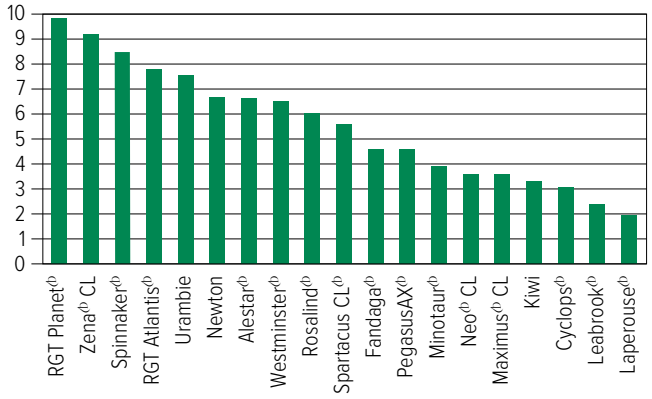


Figure 6: Screenings (<2.2mm) comparisons for long season barley varieties from four NVT sites in High Rainfall Zone in 2024.



Retention comparisons

Figure 7: Retention (>2.5mm) comparisons for long season barley varieties from five NVT sites in High Rainfall Zone in 2023.

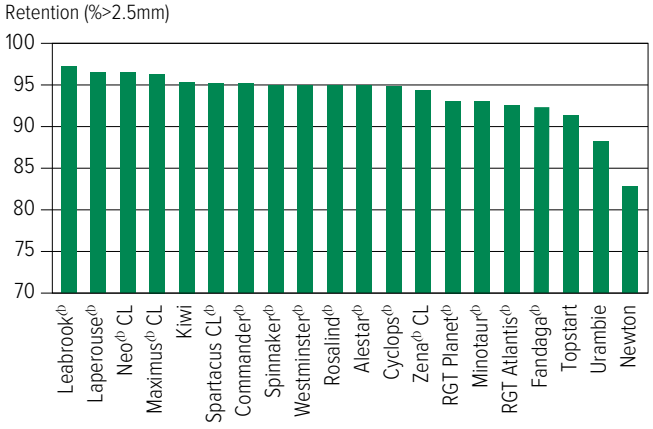
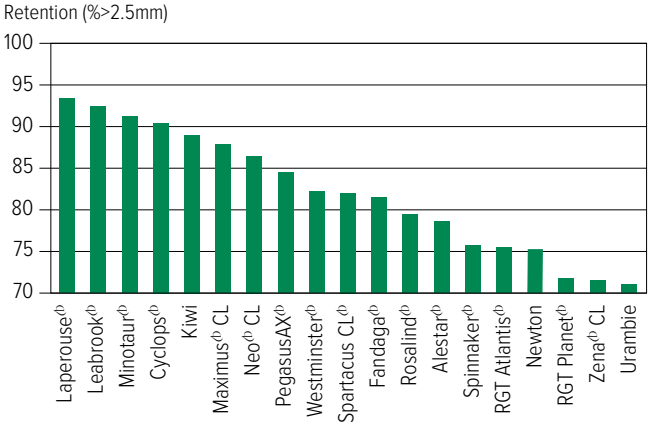


Figure 8: Retention (>2.5mm) comparisons for long season barley varieties from four NVT sites in High Rainfall Zone in 2024.



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, Victorian and Tasmanian growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and tolerance ratings.

Table 6: 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 7: 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(Ф)	S	S	SVS	MRMS	MSS	R^ (P)	MR	MR	SVS
Beast(Ф)	MRMS	MS	SVS	S	S	MR	MRMS	MRMS	SVS
Bigfoot CL(Ф)	MRMS	MRMS	VS	S	S	R	MR	RMR (P)	SVS
Bottler(Ф)	MRMS	MSS	SVS	RMR	MRMS		MS	RMR	SVS
Buff(Ф)	MS	S	SVS	S	SVS		MRMS	MS	SVS
Combat(Ф)	S	MR	S	MSS	S	MR	MRMS	MS	SVS
Commander(Ф)	S	MSS	SVS	MSS	SVS	R	MRMS	MRMS	SVS
Commodus(Ф) CL	MSS	MSS	SVS	MSS	S	R	MRMS	MRMS	SVS
Compass(Ф)	MS	MS	SVS	S	SVS	R	MRMS	MR	SVS
Cyclops(Ф)	MRMS	MSS	S	SVS	SVS	S	MRMS	MRMS	SVS
Fandaga(Ф)	MSS	S	SVS	R	S	R	MR	MR	SVS
Fathom(Ф)	MSS	RMR	S	MRMS	MSS	R	MRMS	MR	SVS
Flinders(Ф)	MS	S	SVS	MR	S	S	MRMS	MR	SVS
Granite(Ф) 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(Ф)	MS	S	SVS	S	S	R	MRMS	MRMS	SVS
Laperouse(Ф)	MRMS	MRMS	SVS	MSS	SVS	S	MRMS	MR	SVS
Leabrook(Ф)	MS	MS	SVS	S	SVS	RMR	MRMS	RMR	SVS
Litmus(Ф)	S	S	VS	MSS	SVS	MS	MS	MRMS	SVS
Maximus(Ф) CL	MRMS	MS	SVS	S	S	R	MRMS	MRMS	SVS
Minotaur(Ф)	MRMS	S	VS	S	VS	R	MRMS	MRMS	SVS
Neo(Ф) CL	MSS	MR	S	RMR	SVS	R	MR	MRMS	SVS
Newton	RMR	MS	MR	RMR	MR	MSS	MRMS	MRMS	S
PegasusAX(Ф)	MRMS	MSS	S	S	MRMS	R	MR	MRMS	SVS
RGT Atlantis(Ф)	VS	SVS	SVS	R	MRMS	R	MR	RMR	SVS
RGT Planet(Ф)	SVS	SVS	SVS	RMR	MRMS	R	MRMS	MR	SVS
Rosalind(Ф)	MR	S	S	S	MRMS	R	MRMS	MRMS	SVS
Scope CL(Ф)	MR	MSS	SVS	MRMS	SVS	S	MRMS	MRMS	SVS
Spartacus CL(Ф)	S	SVS	SVS	S	S	R	MRMS	MRMS	SVS
Spinnaker(Ф)	S	SVS	S	RMR	MSS	S	MR	MS	SVS
Titan AX(Ф)	MS	MS	VS	MSS	SVS	MR (P)	MR	MR	SVS
Urambie	MS	S	MS	MS	S		MRMS	MR	SVS
Westminster(Ф)	MRMS	S	SVS	RMR	MRMS		MRMS	MS	SVS
Yeti(Ф)	MRMS	MS	VS	S	S	RMR	MR	MR	SVS
Zena(Ф) 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 oat varieties released in the 12 months to the date when the MET analysis was published on NVT online. Please go to nvt.grdc.com.au to find trial results for any new varieties released since the publication of this harvest report.

Variety	Breeding company	End point royalty* ($)	Comments supplied by breeding company[1]
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 – High rainfall South Australia, Victoria and Tasmania

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: Frances oat.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	**4.83**	**4.93**	**2.72**		
Koala(Ф)	118	115	87	No trial	No trial
Goldie(Ф)		111	95		
Bannister(Ф)	112	111	92		
Williams(Ф)	110	107	102		
Minnie(Ф)			92		
Bilby(Ф)	105	100	109		
Kowari(Ф)	99	96	103		
Mitika(Ф)	93	92	103		
Possum	95	93	88		
Durack(Ф)	78	85	108		
Sowing date	**27 May**	**29 May**	**25 May**		
Rainfall J–M (mm)	**81**	**40**	**98**		
Rainfall A–O (mm)	**401**	**339**	**428**		

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

Table 2: Hamilton oat.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	**4.44**	**4.44**		**3.55**	
Goldie(Ф)		116	Trial failed	113	No trial
Echidna	114	118		108	
Bannister(Ф)	111	123		102	
Archer(Ф)*				94	
Minnie(Ф)				111	
Koala(Ф)	98	132		96	
Bilby(Ф)	116	103		108	
Williams(Ф)	90	130		97	
Kowari(Ф)	105	85		103	
Mitika(Ф)	93	80		98	
Sowing date	**14 May**	**7 May**	**2 May**	**24 May**	
Rainfall J–M (mm)	**85**	**107**	**80**	**111**	
Rainfall A–O (mm)	**509**	**419**	**521**	**374**	

No 2024 trial cooperator.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 3: Streatham oat.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	**5.02**	**6.53**	**5.85**	**2.66**	**4.72**
Archer(Ф)*				86	101
Koala(Ф)	114	109	131	94	110
Williams(Ф)	110	115	131	93	102
Echidna	106	116	119	117	104
Goldie(Ф)		109	110	129	115
Bannister(Ф)	109	108	120	107	110
Bilby(Ф)	104	108	105	118	101
Wallaby(Ф)				86	94
Minnie(Ф)			89	129	108
Kowari(Ф)	99	95	89	107	97
Sowing date	**18 May**	**8 May**	**11 May**	**17 May**	**17 May**
Rainfall J–M (mm)	**80**	**174**	**95**	**84**	**45**
Rainfall A–O (mm)	**385**	**409**	**461**	**265**	**215**

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

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, Victorian and Tasmanian growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and tolerance ratings.

Table 4: 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 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 HH2990I) 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® 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® 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® 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.

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

Canola variety yield performance – High rainfall South Australia, Victoria and Tasmania

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: Hamilton med-high rainfall GLY.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.56	4.27	3.45	3.65	3.93
Nuseed® Eagle TF		109	114	112	108
Pioneer® PY525G				110	108
DG Buller G					103
Pioneer® PY422G				105	103
DG Hotham TF			108	103	100
Nuseed® Hunter TF			105	100	101
InVigor® R 4520P	105	102	98	99	103
InVigor® LR 5040P				97	103
Hyola® Regiment XC			98	102	100
InVigor® LR 4540P			99	95	100
Sowing date	**16 Apr**	**14 Apr**	**29 Apr**	**20 Apr**	**18 Apr**
Rainfall J–M (mm)	**97**	**107**	**80**	**111**	**62**
Rainfall A–O (mm)	**570**	**419**	**521**	**374**	**338**

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

Table 2: Inverleigh med-high rainfall GLY.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.98	4.25	4.31	4.19	3.90
Nuseed® Eagle TF		112	100	109	108
Pioneer® PY525G				111	108
InVigor® LR 5040P				102	102
InVigor® R 4520P	108	100	108	103	104
Nuseed® Hunter TF			106	100	104
InVigor® LR 4540P			110	98	101
DG Buller G					102
Pioneer® PY422G				104	101
Hyola® Regiment XC			92	104	106
DG Hotham TF			100	99	98
Sowing date	**21 Apr**	**19 Apr**	**13 May**	**14 Apr**	**17 Apr**
Rainfall J–M (mm)	**112**	**94**	**133**	**67**	**31**
Rainfall A–O (mm)	**327**	**332**	**333**	**284**	**236**

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

Table 3: Lake Bolac/Streatham med-high rainfall GLY.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)		4.60	4.35	3.94	3.56
Nuseed® Eagle TF	Compromised trial	110	106	105	104
InVigor® LR 5040P				110	109
InVigor® LR 4540P			103	107	109
InVigor® R 4520P		101	104	107	108
Nuseed® Hunter TF			102	105	108
DG Buller G					101
Pioneer® PY525G				102	102
Pioneer® PY422G				101	98
DG Hotham TF		105	102	100	97
Hyola® Regiment XC			93	95	104
Sowing date	**14 Apr**	**27 Apr**	**23 Apr**	**29 Apr**	**15 Apr**
Rainfall J–M (mm)	**108**	**174**	**95**	**84**	**45**
Rainfall A–O (mm)	**403**	**409**	**461**	**265**	**215**

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

Table 4: Frances med-high rainfall IMI.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.47	3.63	2.20		1.66
Pioneer® PY421C			119	Trial failed	112
Pioneer® 45Y95 CL		116	119		111
Pioneer® 44Y94 CL		113	116		110
Pioneer® 45Y93 CL		109	125		
Hyola® Continuum CL			108		102
Hyola® Solstice CL		108	95		111
Hyola® Equinox CL	86	100	87		
Nuseed® Ceres IMI		98			
VICTORY® V75-03CL	86	97			96
VICTORY® V7002CL	81				
Sowing date	**30 Apr**	**30 Apr**	**3 May**	**8 May**	**31 May**
Rainfall J–M (mm)	**81**	**40**	**98**	**54**	**35**
Rainfall A–O (mm)	**401**	**339**	**428**	**335**	**268**

Special thanks to 2024 trial cooperator, Loyoak Ag Pty Ltd.
Learn more via the NVT Long Term Yield Reporter

Table 5: Hamilton med-high rainfall IMI.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.59	4.04	3.19	3.67	3.82
Pioneer® 45Y95 CL		119	130	122	119
Pioneer® 45Y93 CL	113	116	122	120	
Pioneer® PY421C			124	116	117
Pioneer® 44Y94 CL	111		125	116	115
Hyola® Continuum CL			119	110	108
Hyola® Solstice CL			101	103	
Pioneer® PY520TC			98	103	
VICTORY® V75-03CL	93			95	93
Pioneer® PN526C			90	95	
Hyola® Equinox CL	91	94			
Sowing date	**16 Apr**	**14 Apr**	**29 Apr**	**20 Apr**	**18 Apr**
Rainfall J–M (mm)	**97**	**107**	**80**	**111**	**62**
Rainfall A–O (mm)	**570**	**419**	**521**	**374**	**338**

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

Table 6: Inverleigh med-high rainfall IMI.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.69	4.11	4.47	4.13	3.39
Pioneer® PY421C			115	115	118
Pioneer® 45Y95 CL		120	109	117	119
Pioneer® 44Y94 CL	119	113	113	113	115
Pioneer® 45Y93 CL	118	116	109	116	
Hyola® Continuum CL			108	105	105
Hyola® Solstice CL			94	105	
Pioneer® PY520TC			95	102	
Hyola® Equinox CL	81	100			
VICTORY® V75-03CL	91	94		92	92
Pioneer® PN526C			87	91	
Sowing date	**21 Apr**	**19 Apr**	**13 May**	**14 Apr**	**17 Apr**
Rainfall J–M (mm)	**112**	**94**	**133**	**67**	**31**
Rainfall A–O (mm)	**327**	**332**	**333**	**284**	**236**

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

Table 7: Lake Bolac/Streatham med-high rainfall IMI.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)		4.51	4.65	3.79	3.26
Pioneer® PY421C	Compromised trial		117	121	120
Pioneer® 45Y95 CL		122	116	118	116
Pioneer® 44Y94 CL		120	116	119	115
Pioneer® 45Y93 CL		119	116	117	
Hyola® Continuum CL			111	111	105
Hyola® Solstice CL			95	97	
Pioneer® PY520TC			100	97	
VICTORY® V75-03CL		97		91	90
Hyola® Equinox CL		87			
Pioneer® PN526C			92	84	
Sowing date	**15 Apr**	**27 Apr**	**23 Apr**	**29 Apr**	**15 Apr**
Rainfall J–M (mm)	**108**	**174**	**95**	**84**	**45**
Rainfall A–O (mm)	**403**	**409**	**461**	**265**	**215**

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

Table 8: Frances med-high rainfall TT.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.19	3.55	2.46		
Hyola® Blazer TT	116	112	115	Trial failed	Trial failed
Hyola® Defender CT			116		
RGT Baseline® TT		107	118		
HyTTec® Trifecta	109	114	112		
Pioneer® PY520TC		111	112		
SF Dynatron TT®	113	107	108		
InVigor® T 6010	111	100	114		
HyTTec® Trophy	107	110	104		
DG Bidgee TT(Φ)			110		
InVigor® T 4511		105	100		
Sowing date	**30 Apr**	**30 Apr**	**3 May**	**5 May**	**31 May**
Rainfall J–M (mm)	**81**	**40**	**98**	**54**	**35**
Rainfall A–O (mm)	**401**	**339**	**428**	**335**	**268**

Special thanks to 2024 trial cooperator, Loyoak Ag Pty Ltd.
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, Pioneer® PY520TC..
Learn more via the NVT Long Term Yield Reporter

Table 9: Hamilton med-high rainfall TT.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.96	3.74	3.00		3.58
Hyola® Blazer TT	112	116	126	Trial failed	117
Pioneer® PY429T					115
Hyola® Defender CT			125		115
Pioneer® PY520TC		114	125		114
HyTTec® Trifecta	108	115	121		115
RGT Baseline® TT		114	115		115
SF Dynatron TT®		109	118		109
HyTTec® Trophy	105	109	116		108
DG Bidgee TT$^{\Phi}$			110		108
Nuseed® Griffon TTI					101
Sowing date	**16 Apr**	**14 Apr**	**29 Apr**	**21 Apr**	**18 Apr**
Rainfall J–M (mm)	**97**	**107**	**80**	**111**	**62**
Rainfall A–O (mm)	**570**	**419**	**521**	**374**	**338**

Special thanks to 2024 trial cooperator, Robertson Partnership.
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: Inverleigh med-high rainfall TT.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.72	4.16	3.96	3.79	3.36
Hyola® Blazer TT	114	115	110	115	115
Pioneer® PY429T					112
Hyola® Defender CT			112	112	110
HyTTec® Trifecta	105	118	104	116	117
Pioneer® PY520TC		113	108	113	113
RGT Baseline® TT		115	104	116	113
SF Dynatron TT®		105	110	106	107
HyTTec® Trophy	106	109	106	108	110
DG Bidgee TT$^{\Phi}$			96	109	106
Nuseed® Griffon TTI					101
Sowing date	**21 Apr**	**19 Apr**	**13 May**	**14 Apr**	**17 Apr**
Rainfall J–M (mm)	**112**	**94**	**133**	**67**	**31**
Rainfall A–O (mm)	**327**	**332**	**333**	**284**	**236**

Special thanks to 2024 trial cooperator, Leighview Ag.
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: Lake Bolac/Streatham med-high rainfall TT.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)		4.02	3.77	3.55	3.18
Pioneer® PY429T	Compromised trial				113
Hyola® Blazer TT		121	117	117	113
Hyola® Defender CT			119	117	108
Pioneer® PY520TC		120	115	114	110
HyTTec® Trifecta		115	111	112	114
SF Dynatron TT®		116	113	113	108
RGT Baseline® TT		113	113	112	107
HyTTec® Trophy		112	108	109	110
Nuseed® Griffon TTI					105
DG Bidgee TT$^{\Phi}$			105	102	99
Sowing date	**14 Apr**	**27 Apr**	**23 Apr**	**29 Apr**	**15 Apr**
Rainfall J–M (mm)	**108**	**174**	**95**	**84**	**45**
Rainfall A–O (mm)	**403**	**409**	**461**	**265**	**215**

Special thanks to 2024 trial cooperator, Blythvale Pastoral.
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.
Please check updated ratings using the Blackleg Management Guide or the NVT Disease Ratings.

FABA BEAN

Faba bean variety yield performance – High rainfall South Australia, Victoria and Tasmania

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: Bool Lagoon faba bean.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	4.26	4.56	4.61	3.24	3.02
PBA Samira(Ꝺ)	101	101	106	98	103
PBA Rana		92	82	88	89
PBA Zahra(Ꝺ)	90	102	105	101	106
PBA Amberley(Ꝺ)	95	105	102	97	102
Farah	99	98	98	102	105
Fiesta VF	104	96	96	102	102
PBA Marne(Ꝺ)	89	95	99	109	106
PBA Bendoc(Ꝺ)*	88	106	87	102	100
Nura	94	105	84	100	99
Sowing date	**29 May**	**12 May**	**27 May**	**30 May**	**31 May**
Rainfall J–M (mm)	**66**	**59**	**72**	**75**	**69**
Rainfall A–O (mm)	**452**	**412**	**418**	**428**	**215**

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

Table 2: Lake Bolac/Streatham faba bean.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	4.12	6.44	3.48	4.85	4.18
PBA Samira(Ꝺ)	106	98	106	98	96
PBA Rana		87	82	85	90
PBA Amberley(Ꝺ)	102	97	94	98	97
PBA Zahra(Ꝺ)	93	94	97	99	98
Fiesta VF	102	92	91	97	99
PBA Marne(Ꝺ)	77	95	95	102	104
Farah	98	90	89	96	98
PBA Bendoc(Ꝺ)*	87	89	61	96	101
Nura	96	85	55	93	99
Sowing date	**27 Apr**	**18 Apr**	**18 Apr**	**1 May**	**23 Apr**
Rainfall J–M (mm)	**108**	**140**	**95**	**84**	**45**
Rainfall A–O (mm)	**403**	**461**	**461**	**265**	**215**

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

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

Faba bean variety disease ratings – South Australia and Victoria

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

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

Table 3: Faba bean disease guide for South Australia and Victoria.

Variety	Ascochyta blight	Cercospora leaf spot	Chocolate spot (Botrytis)	RLN resistance (*Pratylenchus thornei*)	Leaf rust

TO BE UPDATED

Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, (P) = provisional rating.

LUPIN

Lupin variety yield performance – High rainfall South Australia, Victoria and Tasmania

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: Frances narrow-leaf lupin.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.38	2.01	2.65		
PBA Barlock[Φ]	101	107	128	No trial	No trial
PBA Jurien[Φ]	104	108	121		
Jenabillup[Φ]	101	106	124		
PBA Gunyidi[Φ]	101	103	107		
Mandelup[Φ]	101	102	104		
Wonga	89	96	117		
PBA Bateman[Φ]	102	102	100		
Rosemont[Φ]			91		
Gidgee[Φ]		101	86		
Lawler[Φ]	104	100	88		
Sowing date	**28 May**	**30 May**	**27 May**		
Rainfall J–M (mm)	**81**	**40**	**98**		
Rainfall A–O (mm)	**401**	**339**	**428**		

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

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, Victorian and Tasmanian growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and tolerance ratings.

Table 2: Lupin disease guide for South Australia and Victoria.

Variety	Anthracnose resistance	Cucumber mosaic virus (CMV)	Phomopsis pod infection	Phomopsis stem infection	Sclerotinia stem rot

TO BE UPDATED

Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, (P) = provisional rating.

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