NVT
HARVEST REPORT

GRDC NATIONAL VARIETY TRIALS™

REVISED MAY 2024

High rainfall South Australia, Victoria and Tasmania
Southern Region

nvt.grdc.com.au

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LEGEND: MEAN VARIETY YIELD PERFORMANCE

LOW **HIGH**

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

DISEASE RATING COLOUR RANGE

VS	SVS	S	MSS	MS	MRMS	MR	RMR	R

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

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

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

INTRODUCTION

The NVT Harvest Report - 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 2023 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.

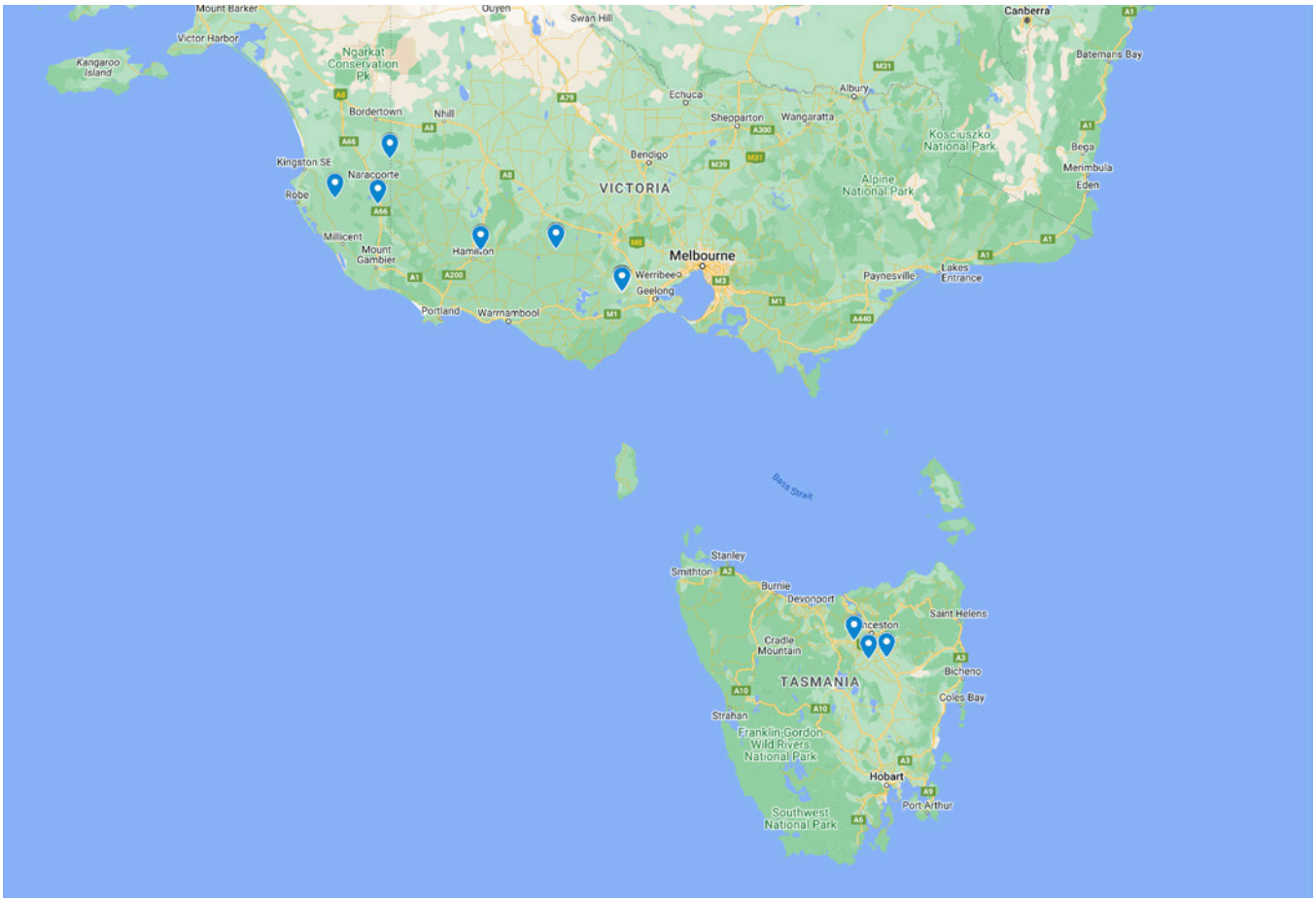
Trials listed as compromised are not suitable for making variety decisions. Results can be found in the Quarantined trial reports.

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

NVT 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 2019 to 2023.

SOURCE: NVT Online



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

WHEAT

New wheat varieties

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

Variety	Breeding company	Grain classification	End point royalty* ($)	Comments supplied by breeding company[1]
Genie(ф)	InterGrain	AH	3.50	Genie(ф) is a mid-slow maturing wheat and is an excellent alternative to RockStar(ф) in greater than three-tonne-per-hectare yield environments. In these environments, the variety offers medium-high rainfall growers a yield improvement compared with RockStar(ф). Genie(ф), with its slightly later maturity than RockStar(ф) and long coleoptile, enables earlier sowing opportunities to be maximised. Genie(ф) has an excellent disease resistance package including useful stem rust and stripe rust resistances. It offers good test weight, moderate grain size and has a medium plant height. Preliminary internal data indicates Genie(ф) has good sprouting tolerance. Genie(ф) has an AH classification in the western and southern zones and an AH classification is expected for the south-eastern and northern zones in 2024.
Longford	Australian Grain and Forage Seeds	TBC	3.85	FEED quality. An awned, red-grained winter wheat. Slow-very slow maturity. Good potential for dual-purpose use, suitable for graze and grain production from early planting. Strong lodging and disease resistance characteristics. Suitable for long-season environments. Bred by KWS, released 2024 and marketed by AGF Seeds.
LRPB Major(ф)	LongReach Plant Breeders	AH	4.00	Mid-slow maturing spring wheat (similar to Beckom(ф) and RockStar(ф)) suitable for early to mid-May seeding opportunities throughout southern NSW. Good disease package for southern NSW and Victorian production systems with improved Septoria resistance over its Beckom(ф) parent. Strong yield performance in both acidic and sodic soil yield trials. AH classification southern NSW, Victoria and South Australia. Marketed by Pacific Seeds.

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

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

Wheat variety yield performance – 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	2019	2020	2021	2022	2023
Mean yield (t/ha)	8.11	6.39		5.29	6.24
BigRed[Ф]			Compromised trial	140	124
RGT Waugh[Ф]		110		140	117
RGT Accroc[Ф]	123	111		134	123
RGT Cesario[Ф]		108		132	122
RGT Calabro	121	109		131	117
LRPB Beaufort[Ф]	112	114		118	112
Manning[Ф]	117	97		126	114
RGT Zanzibar	109	114		116	107
Stockade[Ф]				115	109
RockStar[Ф]	110	114		106	101
EG Jet[Ф]	108	107		112	103
DS Bennett[Ф]	105	103		110	112
Genie[Ф]					102
Severn[Ф]				110	102
LRPB Scotch[Ф]				106	99
Sowing date	**17 Apr**	**28 Apr**	**17 Apr**	**20 Apr**	**18 May**
Rainfall J–M (mm)	**53**	**61**	**83**	**35**	**56**
Rainfall A–O (mm)	**429**	**385**	**405**	**451**	**407**

Special thanks to 2023 trial cooperator, Brad Hocking.
Learn more via the NVT Long Term Yield Reporter

Table 2: Hamilton early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	6.24	7.92	5.21	4.37	5.25
BigRed[Ф]			120	119	110
RGT Accroc[Ф]	107	113	122	113	109
LRPB Beaufort[Ф]	111	111	112	117	109
RGT Cesario[Ф]		112	121	111	105
RockStar[Ф]	116	107	102	111	114
RGT Zanzibar	110	109	103	118	105
RGT Calabro	104	110	111	110	105
Willaura[Ф]			127	99	107
DS Bennett[Ф]	103	107	117	106	104
RGT Waugh[Ф]		110	106	109	106
Genie[Ф]					108
Stockade[Ф]			105	110	102
Longford			102	113	100
IGW6755					107
LRPB Major[Ф]				108	104
Sowing date	**16 May**	**14 May**	**7 May**	**2 May**	**24 May**
Rainfall J–M (mm)	**33**	**85**	**107**	**80**	**111**
Rainfall A–O (mm)	**422**	**509**	**419**	**521**	**374**

Special thanks to 2023 trial cooperator, Robertson Partnership.
Learn more via the NVT Long Term Yield Reporter

Table 3: Inverleigh early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	6.67	5.36	7.00	5.21	5.20
RGT Waugh[Ф]		104	123	146	108
BigRed[Ф]			125	138	107
Longford			115	143	100
IGW6755					112
RockStar[Ф]	115	123	111	108	120
RGT Accroc[Ф]	116	95	123	131	105
RGT Calabro	119	97	118	132	103
LRPB Beaufort[Ф]	112	105	113	116	108
Genie[Ф]					111
RGT Zanzibar	115	108	107	116	106
RGT Cesario[Ф]		89	120	128	99
EG Jet[Ф]	115	107	104	115	104
Manning[Ф]	111	87	114	127	94
Severn[Ф]			103	113	102
Stockade[Ф]			107	114	101
Sowing date	**4 May**	**8 May**	**29 Apr**	**4 May**	**8 May**
Rainfall J–M (mm)	**47**	**112**	**94**	**133**	**67**
Rainfall A–O (mm)	**320**	**327**	**332**	**333**	**284**

Special thanks to 2023 trial cooperator, Leighview Ag.
Learn more via the NVT Long Term Yield Reporter

Table 4: Streatham early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	5.20		7.40	5.69	5.00
BigRed[Ф]		Compromised trial	126	147	93
RGT Accroc[Ф]	100		124	143	93
RGT Waugh[Ф]			113	148	89
RGT Cesario[Ф]			124	141	88
LRPB Beaufort[Ф]	108		116	120	104
RGT Calabro	100		116	138	90
RockStar[Ф]	123		103	103	120
Longford			113	143	83
RGT Zanzibar	109		111	114	102
IGW6755					106
Genie[Ф]					110
DS Bennett[Ф]	95		115	114	98
Stockade[Ф]			110	117	96
Manning[Ф]	89		109	136	81
Willaura[Ф]			116	102	106
Sowing date	**15 May**	**28 Apr**	**1 May**	**10 May**	**15 May**
Rainfall J–M (mm)	**31**	**80**	**174**	**95**	**84**
Rainfall A–O (mm)	**402**	**385**	**409**	**461**	**265**

Special thanks to 2023 trial cooperator, Blythvale Pastoral.
Learn more via the NVT Long Term Yield Reporter

Table 5: Conmurra long season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		**6.17**		**5.80**	**6.33**
RGT Calabro		118		124	121
Longford				131	115
RGT Accroc(b)		114		119	124
BigRed(b)				127	115
Anapurna		111		129	112
RGT Waugh(b)				130	113
RGT Cesario(b)				119	118
LRPB Beaufort(b)	No trial	117	No trial	117	111
Manning(b)		108		108	115
RGT Zanzibar		112		112	104
Stockade(b)				108	107
SQP Revenue(b)		104		92	112
Willaura(b)				90	106
Einstein		97		96	107
DS Bennett(b)		101		84	111
Sowing date		**16 Apr**		**20 Apr**	**4 May**
Rainfall J–M (mm)		**61**		**35**	**56**
Rainfall A–O (mm)		**385**		**451**	**407**

Special thanks to 2023 trial cooperator, Brad Hocking.
Learn more via the NVT Long Term Yield Reporter

Table 6: Cressy/Evandale/Westbury long season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**11.41**	**10.69**	**10.91**	**10.17**	**6.99**
Longford			121	123	112
BigRed(b)			121	122	110
RGT Cesario(b)		114	124	116	108
RGT Waugh(b)		114	121	119	111
RGT Accroc(b)	112	112	120	112	111
Anapurna	103	112	115	124	111
RGT Calabro	107	113	117	113	113
Manning(b)	105	110	117	99	106
Stockade(b)				113	103
IGW6755			113	101	95
LRPB Beaufort(b)	109	96	92	108	111
SQP Revenue(b)	109	100	105	94	100
Einstein	107	99	107	89	99
DS Bennett(b)	108	100	105	88	98
RGT Ivory	93	104	108	99	92
Sowing date	**20 May**	**14 Apr**	**24 Apr**	**27 Apr**	**25 Apr**
Rainfall J–M (mm)	**114**	**170**	**159**	**85**	**103**
Rainfall A–O (mm)	**325**	**369**	**512**	**452**	**341**
Irrigation A–O (mm)					**64**

Special thanks to 2023 trial cooperator, Fordell Farms.
Learn more via the NVT Long Term Yield Reporter

Table 7: Hamilton long season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**6.03**	**7.96**	**4.71**		**5.58**
RGT Accroc(b)	112	114	132		111
RGT Cesario(b)		117	130		111
Stockade(b)			117		110
BigRed(b)			118		116
IGW6755			122		109
Anapurna	108	114	110		117
Longford			110		117
RGT Calabro	111	102	113	Trial failed	114
SQP Revenue(b)	109	107	124		98
LRPB Beaufort(b)	116	107	103		105
DS Bennett(b)	108	104	125		95
RGT Waugh(b)		107	110		112
Willaura(b)					103
RGT Zanzibar	111	101	92		103
Manning(b)	100	94	113		104
Sowing date	**9 May**	**19 Apr**	**15 Apr**	**18 Apr**	**20 Apr**
Rainfall J–M (mm)	**33**	**85**	**107**	**80**	**111**
Rainfall A–O (mm)	**422**	**509**	**419**	**521**	**374**

Special thanks to 2023 trial cooperator, Robertson Partnership.
Learn more via the NVT Long Term Yield Reporter

Table 8: Streatham long season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**5.28**			**5.81**	**5.33**
RGT Calabro	113			127	105
Anapurna	100			127	112
LRPB Beaufort(b)	119			106	116
BigRed(b)				129	107
Longford				134	104
RGT Accroc(b)	108	Compromised trial	Compromised trial	123	103
Willaura(b)				86	115
RGT Zanzibar	113			102	114
Stockade(b)				106	113
IGW6755				89	113
RGT Cesario(b)				125	100
RGT Waugh(b)				135	96
Manning(b)	102			118	89
SQP Revenue(b)	112			95	99
Severn(b)				99	100
Sowing date	**1 May**	**15 Apr**	**13 Apr**	**18 Apr**	**26 Apr**
Rainfall J–M (mm)	**31**	**80**	**174**	**95**	**84**
Rainfall A–O (mm)	**402**	**385**	**409**	**461**	**265**

Special thanks to 2023 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 2022 and 2023 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 2022.

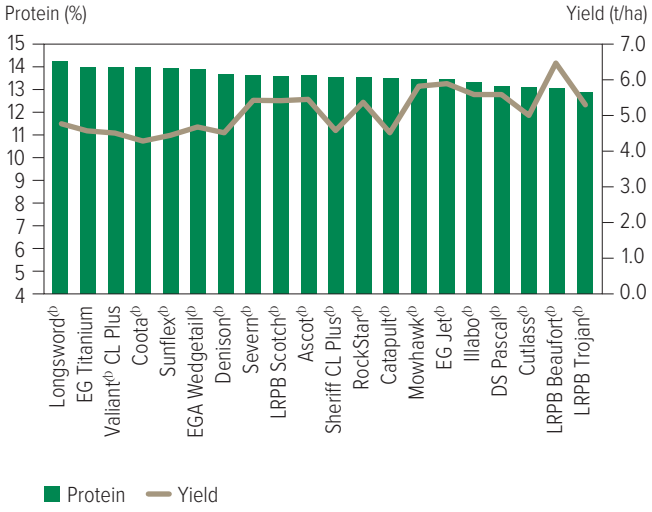


Figure 2: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from four NVT sites in High Rainfall Zone in 2023.

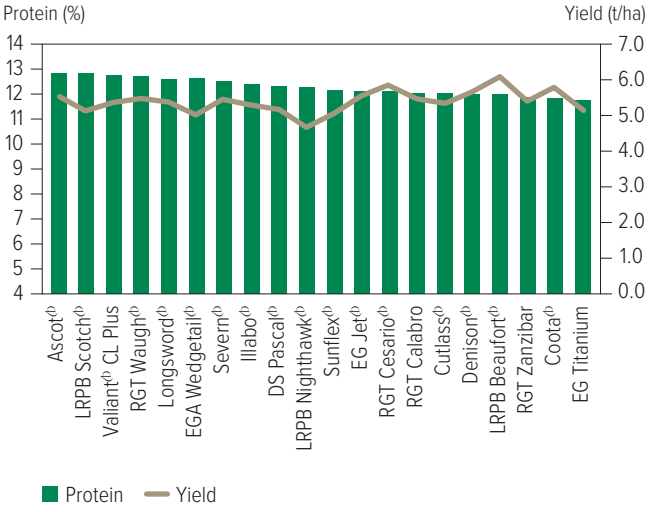


Figure 3: Protein (%) and yield (t/ha) comparisons for long season wheat varieties from three NVT sites in High Rainfall Zone in 2022.

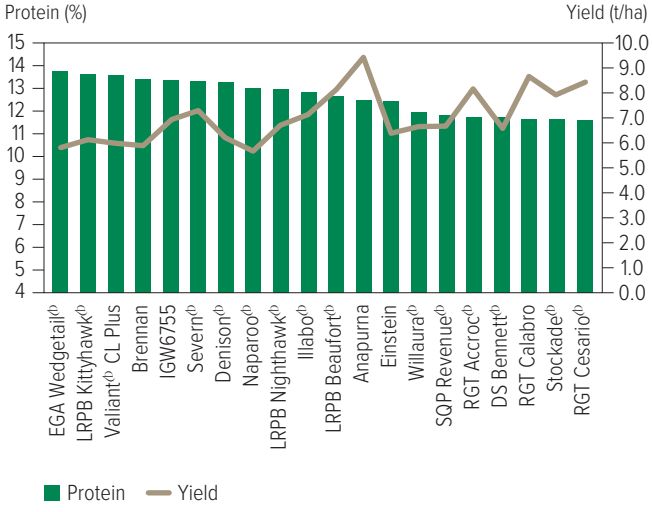
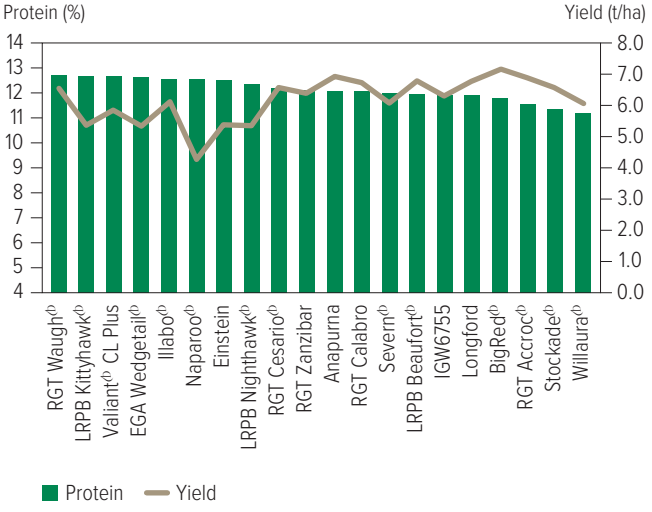


Figure 4: Protein (%) and yield (t/ha) comparisons for long season wheat varieties from four NVT sites in High Rainfall Zone in 2023.



Test weight comparisons

Figure 5: Test weight (kg/hL) comparisons for early season wheat varieties from four NVT sites in High Rainfall Zone in 2022.

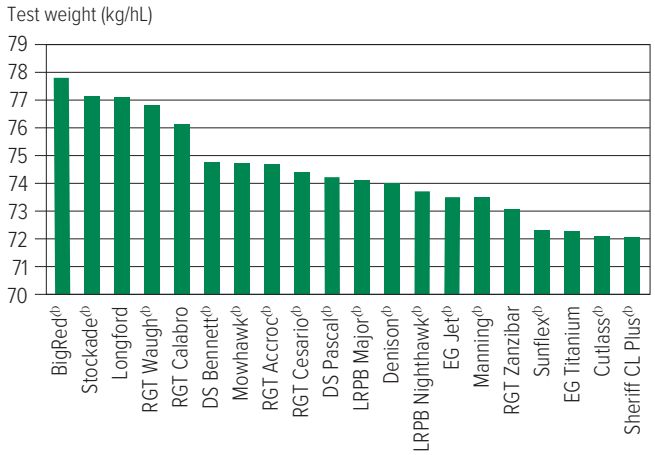


Figure 6: Test weight (kg/hL) comparisons for early season wheat varieties from four NVT sites in High Rainfall Zone in 2023.

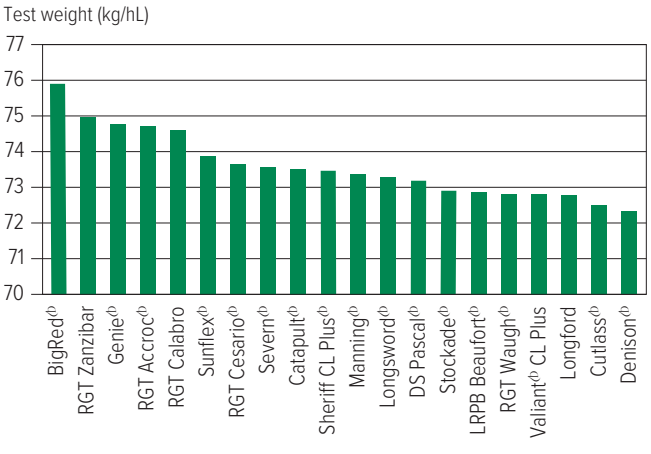


Figure 7: Test weight (kg/hL) comparisons for long season wheat varieties from three NVT sites in High Rainfall Zone in 2022.

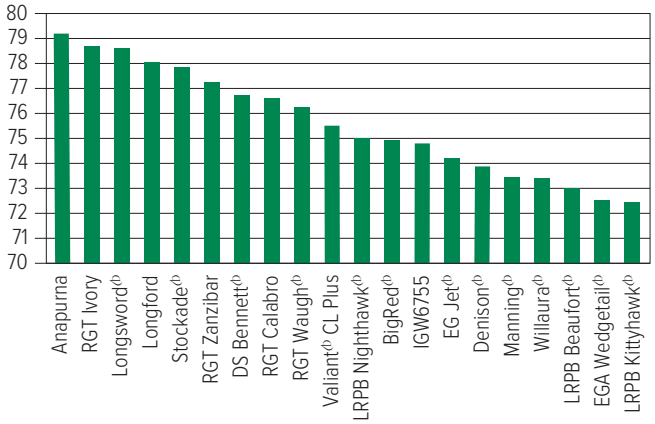
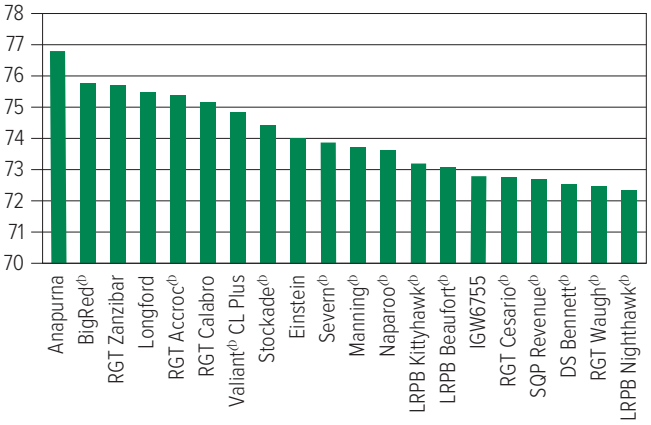


Figure 8: Test weight (kg/hL) comparisons for long season wheat varieties from four NVT sites in High Rainfall Zone in 2023.



Screenings comparisons

Figure 9: Screenings (<2.0mm) comparisons for early season wheat varieties from four NVT sites in High Rainfall Zone in 2022.

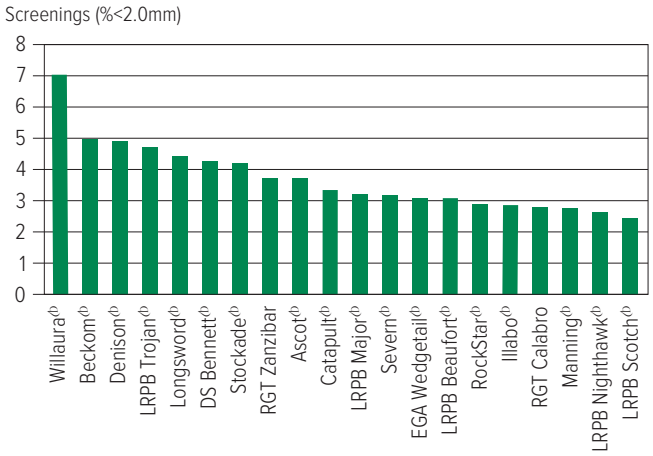


Figure 10: Screenings (<2.0mm) comparisons for early season wheat varieties from four NVT sites in High Rainfall Zone in 2023.

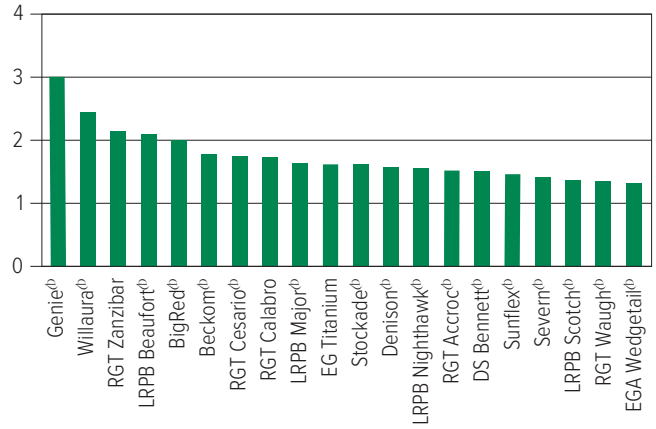


Figure 11: Screenings (<2.0mm) comparisons for long season wheat varieties from three NVT sites in High Rainfall Zone in 2022.

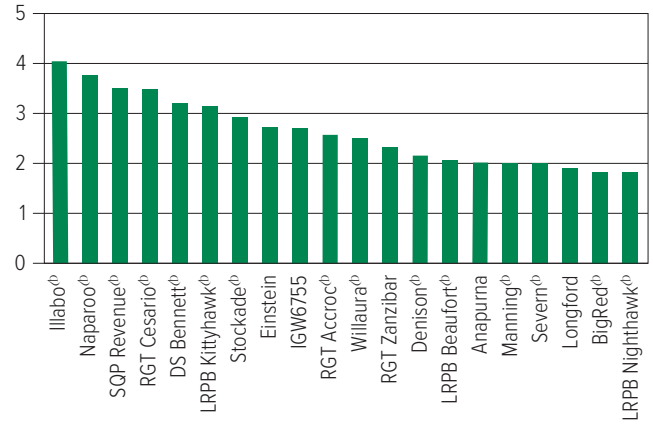
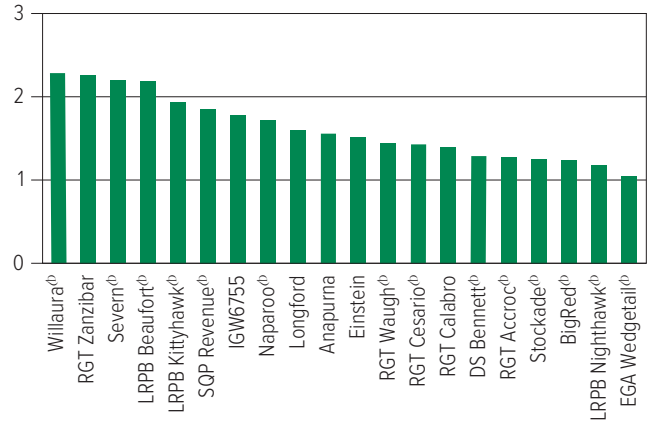


Figure 12: Screenings (<2.0mm) comparisons for long season wheat varieties from four NVT sites in High Rainfall Zone in 2023.



Wheat variety disease ratings – South Australia and Victoria

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

Selected varieties of most relevance to South Australian, 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	MSS
Ascot(ф)	MRMS	MSS	RMR	S	MRMS	S	S	S	MR	S	S	S
Ballista(ф)	MR	MSS	S	SVS	MS	SVS	S	MRMS	MRMS	S	S	MS
Beckom(ф)	MRMS	MRMS	MSS	S	MSS	MSS	S	MSS	R		S	MRMS
BigRed(ф)	S	RMR	MRMS	MR	MR	RMR	MS	MS	S		MSS	MR
Boree(ф)	MR	SVS	S	SVS	MRMS	SVS	S	MSS	MSS		S	S
Borlaug 100(ф)	MR	SVS	MR	MSS	MRMS	S	S	MS	MS	MSS (P)	MSS	MSS
Brumby(ф)	MR	MS	SVS	S	MRMS	MR/S	MRMS	MS (P)	MRMS	S	S	MSS
Calibre(ф)	MR	S	S	S	MRMS	MSS	S	MSS	MRMS	S	S	MSS
Catapult(ф)	MR	S	S	MSS	MRMS	S	S	MS	R	S	MSS	S
Chief CL Plus(ф)	MR	SVS	MR	S	MRMS	SVS	MRMS	MSS	MS	MSS	MSS	MS
Coolah(ф)	MR	MSS	RMR	MSS	MSS	S	S	MS	S		MSS	S
Coota(ф)	RMR	S	MR	S	MSS	S	MR	MS	MR	S	MSS	MS
Cosmick(ф)	MS	MSS	SVS	SVS	MRMS	MSS	MSS	MSS	S		S	MRMS
Cutlass(ф)	R	MSS	RMR	MSS	MSS	MSS	MSS	MSS	MR		S	MS
Denison(ф)	MS	S	S	MSS	MRMS	S	S	S	MS	S	MSS	MS
Devil(ф)	S	SVS	SVS	SVS	MRMS	S	MSS	S	MSS	S	MSS	MSS
Dozer(ф) CL Plus	MS	S	MSS	S (P)	MS	S	MRMS	S	MS (P)	SVS (P)	S	MRMS (P)
DS Bennett(ф)	MS	S	SVS	MSS	MRMS	R	S	S	S		VS	MSS
DS Pascal(ф)	MSS	MRMS	MRMS#	MSS	MS	RMR	S	S	S		S	MS
EG Jet(ф)	S	MRMS	S	MSS	MRMS	SVS	S	S	MRMS		S	MS
EG Titanium	MS	MR	MS	MSS	MSS	S	MSS	MSS	R	S	MSS	MSS
EGA Wedgetail(ф)	MRMS	MS	MSS	MSS	MSS	MSS	S	VS	S		S	MS
Einstein	S	RMR	S	MSS	MR		MRMS	S	S		S (P)	R
Emu Rock(ф)	MS	SVS	SVS	S	MS	MSS	MSS	S	S		MSS	MSS
Genie(ф)	MS (P)	MRMS (P)	S (P)	S (P)	MRMS (P)	SVS (P)						
Hammer CL Plus(ф)	MR	MS	S	MSS	MRMS	S	MSS	S	MRMS	S	MSS	MRMS
Hyperno(ф)	RMR	MR	RMR	MSS	MRMS	MS	MS	RMR	MS		SVS	MS
IGW6755	MRMS	MSS	MS	MSS	MRMS	S	MSS	MR	MSS	MSS (P)	S	MR
Illabo(ф)	MRMS	MRMS	S	MSS	MS	R	MSS	MSS	MRMS	S	S	MRMS
Jillaroo(ф)	MS	MSS	S	S	MS	SVS	S	MS (P)	MS	S	S	MS
Kingston(ф)	S	MSS	S	S	MSS	S	S	MRMS	R	S	S	MSS
Longford	RMR	RMR	RMR	MRMS/S	MRMS	RMR	S	S	MS	MSS (P)	MSS	MRMS
Longsword(ф)	MR	MRMS/MS	MS	MS	MRMS	S	MRMS	MRMS	MRMS	S	MSS	MS
LRPB Anvil(ф) CL Plus	MR	S	SVS	VS	MSS	SVS	MSS	S	MS	S	MSS	S
LRPB Avenger(ф)	MS	S	S	S	MS	SVS	MSS	MRMS	MRMS	S	S	MRMS

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[Ф]	MRMS	MRMS	MSS	MSS	SVS	MS	S	S	R	S	S	MS
LRPB Beaufort[Ф]	SVS	RMR	MSS	S	MRMS	RMR	MS	MSS	MS		S	MRMS
LRPB Dual[Ф]	MRMS	MS	MSS	MSS	S	S	MSS	MSS	R	S	S	S
LRPB Havoc[Ф]	S	MSS	S	MSS	MRMS	S	S	MSS	S		MSS	MS
LRPB Impala[Ф]	MR	MRMS	SVS	SVS	MSS	R	SVS	S	MSS		MSS	MS
LRPB Kittyhawk[Ф]	MRMS (S)	MR	MR	MRMS	MRMS	MS	S	S	S	S	SVS	MRMS
LRPB Major[Ф]	MRMS	MRMS	MR#	MSS	MS	MS	MSS	MSS	MRMS (P)	S (P)	S	MRMS (P)
LRPB Matador[Ф]	MS	MS	MSS	S (P)	MRMS	MS	S	MRMS	MS (P)	S (P)	S	MRMS (P)
LRPB Nighthawk[Ф]	RMR	MR	MSS	MS	MS	SVS	MSS	MS	MS		MSS	MS
LRPB Oryx[Ф]	MR	MS	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	MRMS	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
Manning[Ф]	MR	RMR	MSS	MRMS/S	MRMS	MS	MSS	S	S	MS (P)	VS	S
Naparoo[Ф]	MRMS	MRMS	MS	S	MRMS	R	SVS	S			S	
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]	MS	RMR	SVS	MS	MRMS	MSS	MS	MSS	S	MSS (P)	SVS	MRMS
RGT Calabro	MS	RMR	MSS	MRMS	MR	RMR	S	MS	S		SVS	MS
RGT Cesario[Ф]	RMR	RMR	RMR	MRMS	MR	RMR	MRMS	MSS	MSS (P)		VS	
RGT Waugh[Ф]	MS	RMR	S	MRMS#	MRMS	R	MSS	MSS	MS		S	MRMS
RGT Zanzibar	VS	MR	SVS	MSS	MS	RMR	S	MS (P)	MSS		S	MRMS
RockStar[Ф]	MRMS	S	S	S	MRMS	SVS	MRMS	MS	MSS	S	S	MSS
Saintly[Ф]	MS	MRMS	RMR	MRMS/S	MRMS	S	MS	RMR	MS		VS (P)	MS
Scepter[Ф]	MRMS	MSS	MSS	S	MRMS	SVS	S	MSS	MRMS	S	MSS	MS
Severn[Ф]	MS	RMR	MRMS	MSS	MRMS	RMR	S	MRMS	MSS (P)		S	MR
Sheriff CL Plus[Ф]	MS	SVS	SVS	S	MRMS	SVS	MRMS	MRMS	MS	S	S	MS
Soaker[Ф]	MR (P)	MS (P)	S (P)	S (P)	MS (P)	S (P)						
SQP Revenue[Ф]	RMR	MR	VS	MSS	MRMS	R	S	S	S	S	S	MS
Sting[Ф]	MRMS	S	SVS	SVS	MRMS	SVS	MS	MS	MS		MSS	S
Stockade[Ф]	MS	MR	MR	MS	MRMS	SVS	S	MSS	MRMS		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	MSS	MRMS	MS	MSS		MSS	MR
Sunprime[Ф]	MS	MS	MR#	S	MSS	MSS	S	S	MS		MSS	MSS
Tomahawk CL Plus[Ф]	MR	MSS	S	S (P)	MRMS	SVS	S	MS	MRMS (P)	S (P)	S	S (P)
Valiant[Ф] CL Plus	MR	S	S	MSS	MRMS	VS	S	S (P)	MSS (P)	MSS	MSS	MS (P)
Vixen[Ф]	MRMS	SVS	SVS	S	MRMS	SVS	MRMS	MS	MSS	S	S	MSS
Willaura[Ф]	MR	S	MRMS	S	MS	SVS	MSS	MRMS	MS		S	MRMS
Yitpi	S	MS	S	S	SVS	MS	MSS	S	MR		S	MS
Zen[Ф]	S	S	S	S	MRMS	MS	MRMS	S	S		S	MRMS

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
DURUM												
Caparoi(Ф)	MR	MS	RMR	MRMS/S	MR	S	MS	MR	MRMS (P)		VS	MSS
DBA Bindaroi(Ф)	MR	MS	MR	MS	MS	MSS	MRMS	MR	MS		SVS	MRMS
DBA Lillaroi(Ф)	RMR	MS	RMR	S	MRMS	MS	MRMS	RMR	S		SVS	MS
DBA Mataroi(Ф)	MRMS	MS	MR	MSS	MRMS	S	MS	RMR	MRMS		SVS	MS
DBA Spes	R	MS	RMR	S	MRMS	S	MRMS	RMR	MS		VS	MS
DBA Vittaroi(Ф)	MR	MS	RMR	MSS	MRMS	MS	MS	MR	S		SVS	MSS
DBA-Artemis(Ф)	MR	MRMS	RMR	MRMS/S	MRMS	SVS	MS	MR	MS		SVS	MS
DBA-Aurora(Ф)	RMR	MRMS	RMR	MRMS/S	MRMS	MSS	MRMS	RMR	MSS		SVS	MS
Jandaroi(Ф)	MRMS	MRMS	MR	MSS	MRMS	S	MS	MRMS	MS		VS	MS
Patron(Ф)	RMR	MRMS	MR#	MRMS	MRMS	MSS	MRMS	MR	S		SVS	MSS
Westcourt(Ф)	RMR	MR	RMR	S	MRMS	S	MS	MR	MSS		VS	MSS

Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible,
(P) = provisional rating, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes, ( ) show outlier.

Table 10: Wheat disease guide for Victoria.

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

Continued on next page

Table 10: Wheat disease guide for Victoria (continued).

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

Continued on next page

Table 10: Wheat disease guide for Victoria (continued).

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

Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible,
(P) = provisional rating, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes, ( ) show outlier.

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

* 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

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	2019	2020	2021	2022	2023
Mean yield (t/ha)		**5.24**		**5.43**	**5.86**
Cyclops(ф)		127		126	99
Rosalind(ф)		120		134	96
Leabrook(ф)		112		127	98
Spinnaker(ф)				111	99
Minotaur(ф)		114		109	97
Neo(ф) CL*					101
RGT Planet(ф)		113		101	97
Spartacus CL(ф)*	No trial	109	No trial	108	91
Maximus(ф) CL*		105		102	99
Zena(ф) CL*				104	98
Commander(ф)		94		102	105
Laperouse(ф)		106		100	96
Kiwi		98		100	102
Fandaga(ф)				90	93
Alestar(ф)		98		90	100
Sowing date		**16 Apr**		**19 May**	**18 May**
Rainfall J–M (mm)		**61**		**35**	**56**
Rainfall A–O (mm)		**385**		**451**	**407**

Special thanks to 2023 trial cooperator, Brad Hocking.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 2: Cressy/Westbury long season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		**10.11**	**9.85**	**8.28**	**7.81**
Rosalind(ф)		112	111	124	106
Neo(ф) CL*					112
RGT Planet(ф)		112	112	106	115
Spinnaker(ф)			109	108	111
Fandaga(ф)			100	111	104
Zena(ф) CL*				106	109
Topstart		106	106	105	105
Cyclops(ф)	No trial	108	101	108	104
Leabrook(ф)		103	104	115	99
Maximus(ф) CL*		109	93	107	96
Alestar(ф)		98	101	93	103
Westminster(ф)		94	100	98	97
Urambie		88	103	108	90
Kiwi		95	99	95	99
Laperouse(ф)		99	90	101	91
Sowing date		**4 May**	**12 May**	**11 May**	**18 May**
Rainfall J–M (mm)		**170**	**159**	**85**	**103**
Rainfall A–O (mm)		**369**	**512**	**452**	**341**
Irrigation A–O (mm)					**27**

Special thanks to 2023 trial cooperator, Fordell Farms.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 3: Hamilton long season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**5.96**	**5.94**		**5.21**	**4.20**
Fandaga(ф)			Compromised trial	112	109
Neo(ф) CL*					113
RGT Planet(ф)	112	123		119	95
Spinnaker(ф)				111	104
Cyclops(ф)		107		108	109
Maximus(ф) CL*	111	99		96	120
Topstart	109	112		105	98
Rosalind(ф)	101	104		102	121
Bottler(ф)	105	107		103	103
Zena(ф) CL*				108	97
Laperouse(ф)	106	99		99	100
Alestar(ф)	101	107		107	86
Leabrook(ф)	95	94		95	116
Minotaur(ф)		100		105	86
Spartacus CL(ф)*	99	93		96	95
Sowing date	**16 May**	**14 May**	**7 May**	**2 May**	**25 May**
Rainfall J–M (mm)	**33**	**85**	**107**	**80**	**111**
Rainfall A–O (mm)	**422**	**509**	**419**	**521**	**374**

Special thanks to 2023 trial cooperator, Robertson Partnership.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 4: Inverleigh long season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**5.94**	**6.22**	**8.39**	**6.38**	**4.81**
Cyclops(ф)		107	107	109	112
Rosalind(ф)	98	111	106	114	108
Spinnaker(ф)			106	100	104
Neo(ф) CL*					108
RGT Planet(ф)	120	108	107	90	97
Leabrook(ф)	92	105	101	115	107
Fandaga(ф)			111	90	97
Maximus(ф) CL*	94	102	105	105	110
Minotaur(ф)		97	101	102	98
Zena(ф) CL*				96	96
Laperouse(ф)	103	97	103	101	100
Spartacus CL(ф)*	101	95	101	105	93
Kiwi	100	98	97	101	100
Alestar(ф)	110	98	100	91	93
Commander(ф)	91	96	95	107	106
Sowing date	**19 May**	**11 May**	**5 May**	**3 May**	**19 May**
Rainfall J–M (mm)	**47**	**112**	**94**	**133**	**67**
Rainfall A–O (mm)	**320**	**327**	**332**	**333**	**284**

Special thanks to 2023 trial cooperator, Leighview Ag.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 5: Streatham long season barley.					
Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	5.40	7.10	9.29	6.67	4.81
Cyclops[Φ]		111	107	113	120
Rosalind[Φ]	98	114	103	124	117
Spinnaker[Φ]			110	104	109
RGT Planet[Φ]	112	107	116	96	103
Neo[Φ] CL*					110
Leabrook[Φ]	94	108	97	120	111
Fandaga[Φ]			100	102	107
Minotaur[Φ]		101	104	101	103
Zena[Φ] CL*				99	98
Maximus[Φ] CL*	92	103	90	110	112
Spartacus CL[Φ]*	89	101	91	111	101
Laperouse[Φ]	94	100	94	104	104
Alestar[Φ]	106	98	107	89	93
Bottler[Φ]	102	99	101	95	96
Kiwi	102	98	101	97	98
Sowing date	**22 May**	**15 May**	**8 May**	**11 May**	**16 May**
Rainfall J–M (mm)	**31**	**80**	**174**	**95**	**84**
Rainfall A–O (mm)	**402**	**385**	**409**	**461**	**265**

Special thanks to 2023 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 2022 and 2023 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 three NVT sites in High Rainfall Zone in 2022.

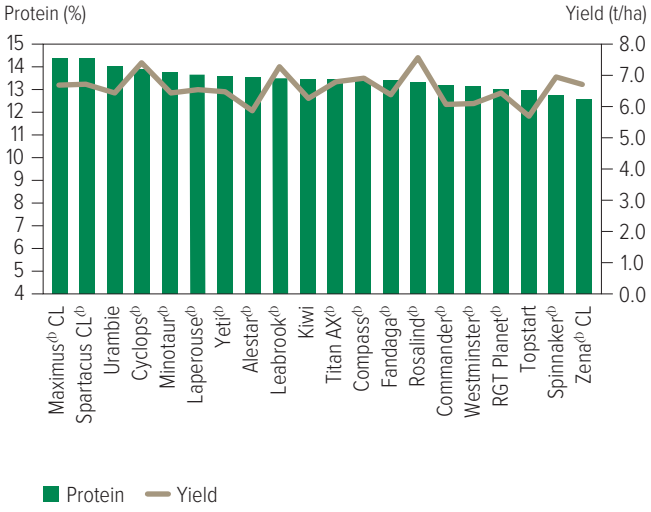
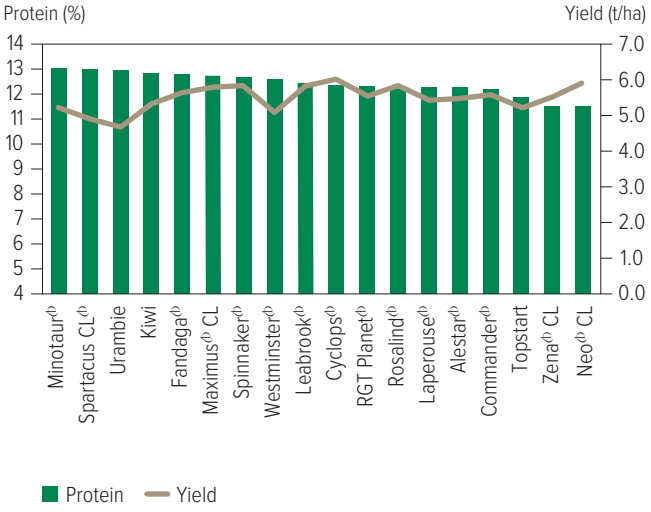


Figure 2: Protein (%) and yield (t/ha) comparisons for long season barley varieties from three NVT sites in High Rainfall Zone in 2023.



Test weight comparisons

Figure 3: Test weight (kg/hL) comparisons for long season barley varieties from three NVT sites in High Rainfall Zone in 2022.

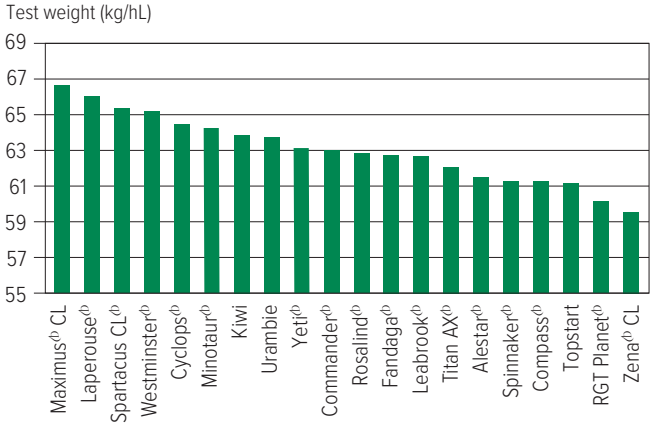
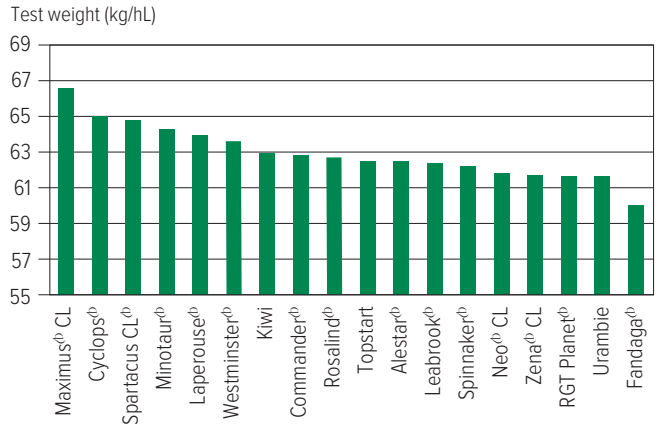


Figure 4: Test weight (kg/hL) comparisons for long season barley varieties from three NVT sites in High Rainfall Zone in 2023.



Screenings comparisons

Figure 5: Screenings (<2.2mm) comparisons for long season barley varieties from three NVT sites in High Rainfall Zone in 2022.

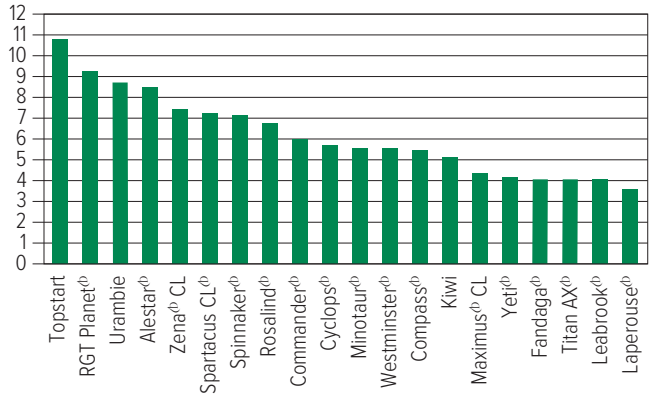
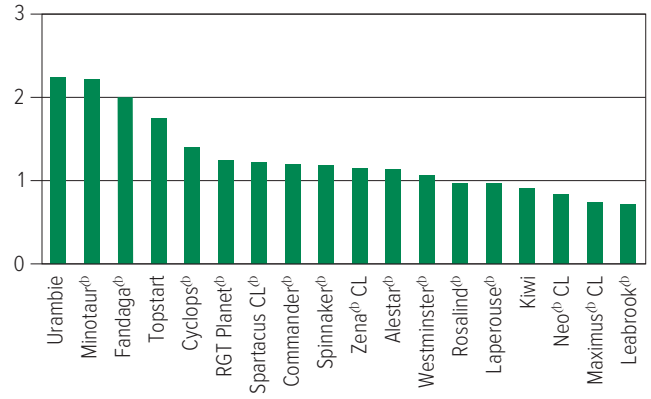


Figure 6: Screenings (<2.2mm) comparisons for long season barley varieties from three NVT sites in High Rainfall Zone in 2023.



Retention comparisons

Figure 7: Retention (>2.5mm) comparisons for long season barley varieties from three NVT sites in High Rainfall Zone in 2022.

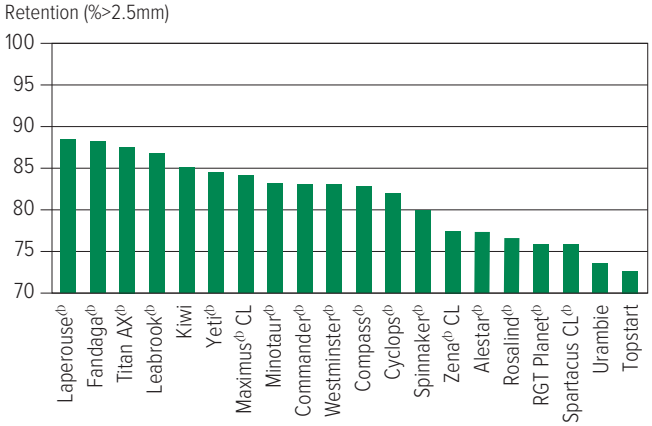
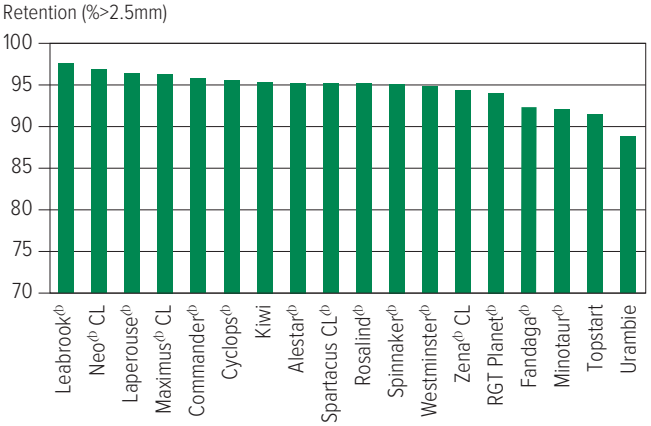


Figure 8: Retention (>2.5mm) comparisons for long season barley varieties from three NVT sites in High Rainfall Zone in 2023.



Barley variety disease ratings – South Australia and Victoria

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

Selected varieties of most relevance to South Australian, 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(Þ)	MSS	MRMS-S	S	SVS	SVS	MR	MR	R^ (P)	S	MRMS	MR
Banks(Þ)	MRMS	MR	S	MS-SVS	VS	MS	MR	S	MSS	MS	MS
Bass(Þ)	S	MS-SVS	MSS	MSS	VS	MS	MRMS	S	MSS	MRMS	S
Beast(Þ)	MS	MRMS-S	MS	SVS	SVS	MRMS	MRMS	MR	S	MSS	S
Bottler(Þ)	MSS	R-MS	MSS	SVS	SVS	MS	RMR		SVS	MRMS	RMR
Buff(Þ)	SVS	MR-MS	MSS	MS-VS	SVS	MRMS	MS		S	MS	S
Combat(Þ)	SVS	MRMS-S	RMR	MS-S	SVS	MRMS	MS	MR	S	MSS	MS
Commander(Þ)	MSS	S-VS	MSS	SVS	SVS	MRMS	MRMS	R	S	MSS	MSS
Commodus(Þ) CL	S	MRMS-MSS	MSS	MSS-SVS	SVS	MRMS	MRMS	R	S	MS	MSS
Compass(Þ)	S	MRMS-S	MS	MSS-SVS	SVS	MRMS	MR	R	MSS	MSS	S
Cyclops(Þ)	S	MR-MS	MSS	S	SVS	MRMS	MRMS	S	MSS	MSS	SVS
Fairview(Þ)	S	SVS	S	SVS	SVS	MR	MR		MSS	MS	R
Fandaga(Þ)	MSS	MRMS#	S	SVS	VS	MR	MR	R	MSS	MRMS	R
Fathom(Þ)	MSS	MSS-SVS	RMR	R-S	SVS	MRMS	MR	R	SVS	MSS	MRMS
Flinders(Þ)	S	MSS	S	MSS-SVS	SVS	MRMS	MR	S	MSS	MRMS	RMR
Keel	S	MS-SVS	MR	MS-SVS	SVS	MS	MRMS	R	S	MSS	S
Kiwi	MSS	MRMS	MSS	SVS	VS	MRMS	RMR	S	MSS	MS	RMR
La Trobe(Þ)	S	MS-S	S	R-SVS	SVS	MRMS	MRMS	R	S	MSS	MSS
Laperouse(Þ)	S	MRMS	MRMS	SVS	VS	MRMS	MR	S	S	MSS	MSS
Leabrook(Þ)	S	MR-MSS	MS	MRMS-SVS	VS	MRMS	RMR	RMR	S	MS	S
Litmus(Þ)	S	S-VS	S	VS	VS	MS	MRMS	MS	S	MS	MS
Maximus(Þ) CL	S	MR-MS	MS	R-SVS	VS	MRMS	MRMS	R	S	MSS	S
Minotaur(Þ)	SVS	MR-MS	S	VS	SVS	MRMS	MRMS	R	MSS	MRMS	S
Neo(Þ) CL	MSS (P)	MS (P)	MR (P)	S (P)	SVS (P)	RMR (P)	MR (P)	R		MRMS (P)	RMR (P)
RGT Planet(Þ)	S	MRMS-SVS	SVS	R-SVS	SVS	MRMS	MR	R (P)	MSS	MRMS	RMR
Rosalind(Þ)	MSS	MRMS	S	MR-S	VS	MRMS	MRMS	R	S	MS	MSS
SakuraStar	MSS	S	MS	MS-SVS	SVS	MR	MR	R	S	MS	MSS
Scope CL(Þ)	S	R-MR	MSS	MRMS-SVS	SVS	MRMS	MRMS	S	S	MS	MRMS
Spartacus CL(Þ)	MSS	MS-VS	S	R-SVS	VS	MRMS	MRMS	R	S	MSS	MSS
Spinnaker(Þ)	S	SVS	SVS	S	VS	MR	MS	S	S	MRMS	RMR
Titan AX(Þ)	SVS	MRMS-S	MS	VS	VS	MR	MR	MR (P)	S	MSS	MSS
Topstart	S	MRMS-SVS	S	S	SVS	RMR	RMR	S	MSS	MRMS	RMR
Urambie	S	R-MR	S	R-S	VS	MRMS	MR		MSS	MRMS	MS
Westminster(Þ)	MS	MRMS	S	R-S	SVS	MRMS	MS		MSS	MRMS	RMR
Yeti(Þ)	SVS	MR-MS	MS	VS	VS	MR	MR	RMR	S	MSS	S
Zena(Þ) CL	S	MR-S	S	R-S	VS	MRMS	MR	R	S	MRMS (P)	RMR

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

Table 7: Barley disease guide for Victoria.

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

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

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

* EPR amount is ex-GST, (D) 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	2019	2020	2021	2022	2023
Mean yield (t/ha)	5.07	4.89	4.95	2.73	
Williams(Ф)	104	113	110	96	No trial
Koala(Ф)	104	113	114	88	
Bannister(Ф)	103	111	110	93	
13008-18			111	92	
Bilby(Ф)	102	105	101	104	
Kowari(Ф)	99	97	95	106	
Possum	98	94	95	103	
Mitika(Ф)	98	92	92	106	
Durack(Ф)	92	76	84	105	
Koorabup(Ф)	89	73	90	93	
Sowing date	**31 May**	**27 May**	**29 May**	**25 May**	
Rainfall J–M (mm)	**22**	**81**	**40**	**98**	
Rainfall A–O (mm)	**294**	**401**	**339**	**428**	

No 2023 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 2: Hamilton oat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	5.47	4.47	4.55		3.51
Archer(Ф)*				Trial failed	98
13008-18			114		115
Koala(Ф)	124	103	125		98
Bannister(Ф)	117	108	120		104
Williams(Ф)	113	91	133		100
Echidna	112	108	113		100
Bilby(Ф)	102	114	100		108
Wallaby(Ф)					89
Kowari(Ф)	92	108	87		104
Mitika(Ф)	87	98	84		99
Sowing date	**16 May**	**14 May**	**7 May**	**2 May**	**24 May**
Rainfall J–M (mm)	**33**	**85**	**107**	**80**	**111**
Rainfall A–O (mm)	**422**	**509**	**419**	**521**	**374**

Special thanks to 2023 trial cooperator, Robertson Partnership.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 3: Streatham oat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	4.33	5.02	6.74	6.07	2.61
Archer(Ф)*					95
Williams(Ф)	118	113	110	121	98
Koala(Ф)	110	110	110	126	95
Bannister(Ф)	111	111	107	116	109
Echidna	105	107	111	119	103
13008-18			103	104	132
Wallaby(Ф)					84
Bilby(Ф)	103	105	103	100	119
Kowari(Ф)	95	97	97	89	110
Mitika(Ф)	92	93	94	86	99
Sowing date	**23 May**	**18 May**	**8 May**	**11 May**	**17 May**
Rainfall J–M (mm)	**31**	**80**	**174**	**95**	**84**
Rainfall A–O (mm)	**402**	**385**	**409**	**461**	**265**

Special thanks to 2023 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 2024.

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.

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

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

Table 5: Oat disease guide for Victoria.

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

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

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 Drummond TF	Nutrien Ag Solutions Ltd	N/A	DG Drummond TF is a tall, mid-late maturing, glyphosate-tolerant hybrid with group H blackleg resistance. DG Drummond TF is suited to medium to high-rainfall areas.
Hyola® Continuum CL	Advanta Seeds	N/A	An early-mid maturity Clearfield® hybrid, Continuum CL provides wide environmental adaptability with excellent grain oil potential. It exhibits strong yields in target environments and demonstrates excellent adaptability to growing regions with a range of 1.5 to 5.5t/ha. Continuum CL showcases an exceptionally high level of early plant vigour, high lodging resistance and an outstanding blackleg rating of 'R' due to its distinctive tri-group resistance, ADF.
Hyola® Defender CT	Advanta Seeds	N/A	A mid-season maturity CT hybrid, Defender CT delivers remarkable grain yield, robust plant vigour and a very high grain oil content. Defender CT performance is closely aligned with the renowned Hyola® Blazer TT variety. Defender CT offers uniform flowering, manageable height for direct harvesting and an exceptional blackleg rating of 'R-MR' due to its distinctive tri-group resistance, ADF.
InVigor® LR 4540P	BASF Australia Ltd	N/A	New LibertyLink® hybrid with tolerance to both Liberty® and TruFlex®. Combines two herbicide tolerances with the flexibility of PodGuard® for shatter tolerance. Early-mid maturing variety suited to low and medium-rainfall zones. Marketed by BASF.
Monola® H524TT	Nuseed	N/A	Monola® H524TT is an early-mid maturing 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 strong blackleg resistance and good harvestability. Limited commercial release in 2024.
PY421C	Pioneer Hi-Bred Aust	N/A	Pioneer® PY421C is an early to mid-maturing hybrid with exceptional yield for maturity and widely adapted. Blackleg rating of 'R-MR', resistance group A. Marketed by Pioneer Seeds.
PY422G	Pioneer Hi-Bred Aust	N/A	Pioneer® PY422G is an early-mid maturing Optimum GLY® hybrid variety. Suited to early-mid and mid-season growing regions. Mid-fast phenology. Medium height. Blackleg resistance rating NA, resistance group NA. Tested in NVT trials 2023. Marketed by Pioneer Seeds.
PY525G	Pioneer Hi-Bred Aust	N/A	Pioneer® PY525G is a mid-maturing Optimum GLY® hybrid variety. Suited to mid-season growing regions. Mid-phenology. Medium-tall height. Blackleg resistance rating NA, resistance group NA. Tested in NVT trials 2023. Marketed by Pioneer Seeds.

* EPR amount is ex-GST, ⓟ 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	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.89	3.55	4.23	3.40	3.58
Pioneer® 45Y28 RR		105	110	116	113
PY525G					115
Nuseed® Eagle TF			109	115	113
DG Drummond TF			105	108	107
PY422G					106
Pioneer® 44Y30 RR		105	104	108	103
InVigor® R 4520P	108	107	104	101	103
Nuseed® Hunter TF				107	103
DG Hotham TF				108	104
Hyola® Regiment XC				102	105
Sowing date	**9 May**	**16 Apr**	**14 Apr**	**29 Apr**	**20 Apr**
Rainfall J–M (mm)	**33**	**97**	**107**	**80**	**111**
Rainfall A–O (mm)	**422**	**570**	**419**	**521**	**374**

Special thanks to 2023 trial cooperator, Robertson Partnership.
Learn more via the NVT Long Term Yield Reporter

Table 2: Inverleigh med-high rainfall GLY.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		3.96	4.23	4.29	4.12
Pioneer® 45Y28 RR	Trial failed	104	113	102	111
Nuseed® Eagle TF			112	102	110
InVigor® R 4520P		112	101	109	106
PY525G					113
Pioneer® 44Y30 RR		111	100	108	102
PY422G					105
Nuseed® Hunter TF				106	103
DG Drummond TF			106	101	105
InVigor® LR 4540P				110	98
DG Hotham TF				100	100
Sowing date	**2 May**	**21 Apr**	**19 Apr**	**13 May**	**14 Apr**
Rainfall J–M (mm)	**47**	**112**	**94**	**133**	**67**
Rainfall A–O (mm)	**320**	**327**	**332**	**333**	**284**

Special thanks to 2023 trial cooperator, Leighview Ag.
Learn more via the NVT Long Term Yield Reporter

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

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.99		4.57	4.30	3.90
Pioneer® 45Y28 RR		Compromised trial	110	108	108
Nuseed® Eagle TF			110	108	108
InVigor® R 4520P	110		104	106	110
Pioneer® 44Y30 RR			108	107	108
PY525G					105
PY422G					105
Nuseed® Hunter TF				104	107
DG Drummond TF			106	105	104
InVigor® LR 4540P				103	108
DG Hotham TF			107	104	101
Sowing date	**1 May**	**14 Apr**	**27 Apr**	**23 Apr**	**29 Apr**
Rainfall J–M (mm)	**31**	**108**	**174**	**95**	**84**
Rainfall A–O (mm)	**402**	**403**	**409**	**461**	**265**

Special thanks to 2023 trial cooperator, Blythvale Pastoral.
Learn more via the NVT Long Term Yield Reporter

Table 4: Frances med-high rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		3.40	3.66	2.19	
PY421C	Trial failed			118	Trial failed
Pioneer® 45Y95 (CL)			114	120	
Pioneer® 45Y93 CL			109	125	
Pioneer® 44Y94 CL			114	116	
Hyola® Continuum CL				110	
Hyola® Solstice CL			105	93	
VICTORY® V75-03CL		90	96		
Nuseed® Ceres IMI			99		
Hyola® Equinox CL		87	98	85	
VICTORY® V7002CL		82			
Sowing date	**14 May**	**30 Apr**	**30 Apr**	**3 May**	**8 May**
Rainfall J–M (mm)	**22**	**81**	**40**	**98**	**54**
Rainfall A–O (mm)	**294**	**401**	**339**	**428**	**335**

Special thanks to 2023 trial cooperator, Wayne Hawkins.
Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties have not been included in this trial, but have been tested in other herbicide trials at this location: Hyola® Defender CT.
Learn more via the NVT Long Term Yield Reporter

Table 5: Hamilton med-high rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**2.65**	**3.55**	**4.05**	**3.11**	**3.59**
Pioneer® 45Y95 (CL)	116		118	129	121
Pioneer® 45Y93 CL	114	115	116	122	119
PY421C				121	117
Pioneer® 44Y94 CL		112		129	116
Hyola® Continuum CL				121	111
Pioneer® 45Y91 (CL)	104	105			
Hyola® Solstice CL				104	104
PY520TC				100	105
VICTORY® V75-03CL	92	95			93
Hyola® Equinox CL		91	94		
Sowing date	**9 May**	**16 Apr**	**14 Apr**	**29 Apr**	**20 Apr**
Rainfall J–M (mm)	**33**	**97**	**107**	**80**	**111**
Rainfall A–O (mm)	**422**	**570**	**419**	**521**	**374**

Special thanks to 2023 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 have not been included in this trial, but have been tested in other herbicide trials at this location: Hyola® Defender CT and Hyola® Regiment XC.
Learn more via the NVT Long Term Yield Reporter

Table 6: Inverleigh med-high rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**3.90**	**3.64**	**4.10**	**4.46**	**4.07**
PY421C				113	118
Pioneer® 45Y95 (CL)	108		119	110	118
Pioneer® 45Y93 CL	109	121	116	109	117
Pioneer® 44Y94 CL	109	123	112	114	113
Hyola® Continuum CL				109	107
Pioneer® 45Y91 (CL)	103	106			
PY520TC				95	103
Hyola® Solstice CL				95	106
VICTORY® V75-03CL	95	94	93		92
Hyola® Equinox CL		79	100		
Sowing date	**2 May**	**21 Apr**	**19 Apr**	**13 May**	**14 Apr**
Rainfall J–M (mm)	**47**	**112**	**94**	**133**	**67**
Rainfall A–O (mm)	**320**	**327**	**332**	**333**	**284**

Special thanks to 2023 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 have not been included in this trial, but have been tested in other herbicide trials at this location: Hyola® Defender CT and Hyola® Regiment XC.
Learn more via the NVT Long Term Yield Reporter

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

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**2.92**		**4.58**	**4.61**	**3.75**
Pioneer® 44Y94 CL	111	Compromised trial	122	118	121
PY421C				116	122
Pioneer® 45Y93 CL	116		118	117	118
Pioneer® 45Y95 (CL)	114		119	116	119
Hyola® Continuum CL				112	112
Pioneer® 45Y91 (CL)	107				
PY520TC				100	97
Hyola® Solstice CL				95	97
VICTORY® V75-03CL	92		95		92
Hyola® Equinox CL			87		
Sowing date	**1 May**	**15 Apr**	**27 Apr**	**23 Apr**	**29 Apr**
Rainfall J–M (mm)	**31**	**108**	**174**	**95**	**84**
Rainfall A–O (mm)	**402**	**403**	**409**	**461**	**265**

Special thanks to 2023 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 have not been included in this trial, but have been tested in other herbicide trials at this location: Hyola® Defender CT and Hyola® Regiment XC.
Learn more via the NVT Long Term Yield Reporter

Table 8: Frances med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		**3.05**	**3.49**	**2.40**	
Hyola® Defender CT	Trial failed			120	Trial failed
Hyola® Blazer TT		122	115	118	
PY520TC			114	118	
RGT Baseline® TT			108	121	
HyTTec® Trifecta		117	114	114	
SF Dynatron TT		119	109	111	
HyTTec® Trophy		111	113	107	
InVigor® T 6010		117	101	115	
DG Bidgee TT(ϕ)				113	
InVigor® T 4511			106	103	
Sowing date	**14 May**	**30 Apr**	**30 Apr**	**3 May**	**5 May**
Rainfall J–M (mm)	**22**	**81**	**40**	**98**	**54**
Rainfall A–O (mm)	**294**	**401**	**339**	**428**	**335**

Special thanks to 2023 trial cooperator, Wayne Hawkins.
Learn more via the NVT Long Term Yield Reporter

Table 9: Hamilton med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.64	2.88	3.64	2.86	
Hyola® Defender CT				132	Trial failed
Hyola® Blazer TT		116	119	131	
PY520TC			118	130	
HyTTec® Trifecta	115	112	117	128	
RGT Baseline® TT			117	121	
SF Dynatron TT			112	120	
HyTTec® Trophy	109	108	112	124	
InVigor® T 6010	111	111	110	106	
DG Bidgee TT$^{\Phi}$				114	
Monola® H524TT				114	
Sowing date	**9 May**	**16 Apr**	**14 Apr**	**29 Apr**	**21 Apr**
Rainfall J–M (mm)	**33**	**97**	**107**	**80**	**111**
Rainfall A–O (mm)	**422**	**570**	**419**	**521**	**374**

Special thanks to 2023 trial cooperator, Robertson Partnership.
Learn more via the NVT Long Term Yield Reporter

Table 10: Inverleigh med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	3.51	3.59	4.06	3.86	3.67
Hyola® Defender CT				114	117
Hyola® Blazer TT		119	118	113	119
PY520TC			116	111	117
RGT Baseline® TT			117	107	119
HyTTec® Trifecta	107	110	119	108	119
SF Dynatron TT			108	113	111
HyTTec® Trophy	104	110	111	109	111
InVigor® T 6010	108	109	111	103	114
DG Bidgee TT$^{\Phi}$				98	112
Renegade TT$^{\Phi}$			90		97
Sowing date	**2 May**	**21 Apr**	**19 Apr**	**13 May**	**14 Apr**
Rainfall J–M (mm)	**47**	**112**	**94**	**133**	**67**
Rainfall A–O (mm)	**320**	**327**	**332**	**333**	**284**

Special thanks to 2023 trial cooperator, Leighview Ag.
Learn more via the NVT Long Term Yield Reporter

Table 11: Lake Bolac/Streatham med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.73		3.93	3.65	3.42
Hyola® Defender CT		Compromised trial		124	122
Hyola® Blazer TT			124	121	121
PY520TC			123	120	119
RGT Baseline® TT			116	117	116
HyTTec® Trifecta	114		118	116	117
SF Dynatron TT			118	116	117
HyTTec® Trophy	106		117	113	114
InVigor® T 6010	115		105	109	110
DG Bidgee TT$^{\Phi}$				108	105
Monola® H524TT			109	104	102
Sowing date	**1 May**	**14 Apr**	**27 Apr**	**23 Apr**	**29 Apr**
Rainfall J–M (mm)	**31**	**108**	**174**	**95**	**84**
Rainfall A–O (mm)	**402**	**403**	**409**	**461**	**265**

Special thanks to 2023 trial cooperator, Blythvale Pastoral.
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 2024.

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

Table 12: Canola disease guide – 2024 autumn blackleg ratings and resistance groups.

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

Continued on next page

Table 12: Canola disease guide – 2024 autumn blackleg ratings and resistance groups (continued).

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

Continued on next page

Table 12: Canola disease guide – 2024 autumn blackleg ratings and resistance groups (continued).

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

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

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

Please check updated ratings using the Blackleg Management Guide or the NVT Disease Ratings.

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	2019	2020	2021	2022	2023
Mean yield (t/ha)		**4.26**	**4.59**	**4.55**	**3.22**
PBA Samira(Ф)	No trial	100	100	105	99
PBA Amberley(Ф)		99	101	104	98
PBA Zahra(Ф)		88	105	107	101
PBA Rana(Ф)			92	83	90
Fiesta VF		100	96	96	101
Farah(Ф)		97	98	96	102
PBA Marne(Ф)		90	92	100	110
PBA Bendoc(Ф)*		89	106	91	102
Nura(Ф)		97	102	84	101
Sowing date		**29 May**	**12 May**	**27 May**	**30 May**
Rainfall J–M (mm)		**66**	**59**	**72**	**75**
Rainfall A–O (mm)		**452**	**412**	**418**	**428**

Special thanks to 2023 trial cooperator.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 2: Lake Bolac/Streatham faba bean.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		**4.16**	**6.38**	**3.38**	**4.82**
PBA Samira(Ф)	No trial	103	99	107	99
PBA Amberley(Ф)		104	97	101	98
PBA Rana(Ф)			88	87	84
PBA Zahra(Ф)		89	97	96	102
Fiesta VF		100	91	94	96
PBA Marne(Ф)		78	94	107	101
Farah(Ф)		96	90	88	96
PBA Bendoc(Ф)*		87	91	61	99
Nura(Ф)		96	86	57	94
Sowing date		**27 April**	**18 April**	**18 April**	**1 May**
Rainfall J–M (mm)		**108**	**140**	**95**	**84**
Rainfall A–O (mm)		**403**	**461**	**461**	**265**

Special thanks to 2023 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 2024.

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
Cairo	VS	S	S	MSS	S
Doza	VS	S	S	MSS	MR
Farah(Þ)	MS	S	S	MS	VS
FBA Ayla(Þ)		S	S	MRMS	MR
Fiesta VF	S	S	S	MS	VS
Nura(Þ)	MR (P)	S	MS	MS	VS
PBA Amberley(Þ)	MR	S	MRMS	MRMS	VS
PBA Bendoc(Þ)	MR	S	S	MRMS	VS
PBA Marne(Þ)	MS	S	MS (P)	MS	MRMS
PBA Nanu(Þ)		S	S	MRMS	MR
PBA Nasma(Þ)	S	S	S	MSS	MRMS
PBA Rana(Þ)	MRMS (P)	S	MS	MS	VS
PBA Samira(Þ)	MR (P)	S	MS	MRMS	S
PBA Warda(Þ)	S	S	S	MRMS	MRMS
PBA Zahra(Þ)	MRMS	S	MS	MRMS	S

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

LUPIN

New lupin varieties

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

Variety	Breeding company	End point royalty* ($)	Comments supplied by breeding company[1]
Rosemont(Þ)	Australian Grain Technologies	4.50	A very high yielding alternative to PBA Jurien(Þ), Coyote(Þ) and Mandelup(Þ). Best performance in softer-finishing situations and southern WA environments. Unique white flower and faintly speckled seed. Metribuzin tolerant. Excellent early vigour. Reduced risk of seed splitting compared with PBA Jurien(Þ). Taller plant height, may improve harvestability. Moderately resistant to stem Phomopsis. Good CMV resistance. Slightly slower maturity relative to PBA Jurien(Þ), slightly quicker than Coyote(Þ).

* EPR amount is ex-GST, (Þ) 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

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	2019	2020	2021	2022	2023
Mean yield (t/ha)		2.34	2.00	2.60	
PBA Barlock(Þ)	Trial failed	101	108	130	No trial
PBA Jurien(Þ)		105	111	121	
Jenabillup(Þ)		101	103	121	
PBA Bateman(Þ)		106	102	112	
PBA Gunyidi(Þ)		104	100	114	
Wonga		90	94	125	
Mandelup(Þ)		101	103	103	
Rosemont(Þ)				89	
Lawler(Þ)		105	101	89	
Coyote(Þ)		109	98	86	
Sowing date	**28 May**	**28 May**	**30 May**	**27 May**	
Rainfall J–M (mm)	**22**	**81**	**40**	**98**	
Rainfall A–O (mm)	**294**	**401**	**339**	**428**	

No 2023 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Lupin variety disease ratings – South Australia and Victoria

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

Selected varieties of most relevance to South Australian, 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
Coromup(Þ)	MR	MR	MS	MR	S (P)
Coyote(Þ)	MRMS	MRMS	MRMS	S	S (P)
Gidgee(Þ)	RMR	MRMS	S (P)	MR	S (P)
Jenabillup(Þ)	MS	MRMS	MR	MS	S (P)
Lawler(Þ)	MR	MRMS	MS	MR	S (P)
Mandelup(Þ)	MRMS	MRMS	S	MR	S (P)
PBA Barlock(Þ)	RMR	MRMS	MR	MR	S (P)
PBA Bateman(Þ)	MRMS	MR	MS	RMR	S (P)
PBA Gunyidi(Þ)	MRMS	MRMS	MRMS	RMR	S (P)
PBA Jurien(Þ)	RMR	MS	MRMS	RMR	S (P)
PBA Leeman(Þ)	MRMS	MRMS	MRMS	MR	S (P)
Rosemont(Þ)	MRMS	MR	MRMS (P)	MR	S (P)
Wonga	MR	MR	MR	MR	S (P)

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

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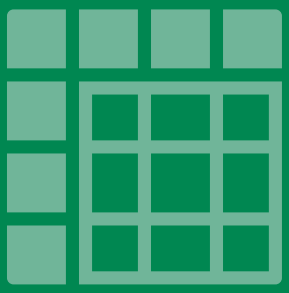

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