NVT
HARVEST REPORT

GRDC NATIONAL VARIETY TRIALS™

REVISED MAY 2024

Northern Victoria
Southern Region

nvt.grdc.com.au

Title:
NVT Harvest Report – Northern Victoria

Published: Revised May 2024

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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: John Nairn, South Australian Research and Development Institute (SARDI-PIRSA), harvesting the barley National Variety Trial site at the SARDI Turretfield Research Centre, Rosedale, SA, 2023.
PHOTO: Trevor Garnett, GRDC

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

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

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

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

Interpreting long-term yield results

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

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

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

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

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

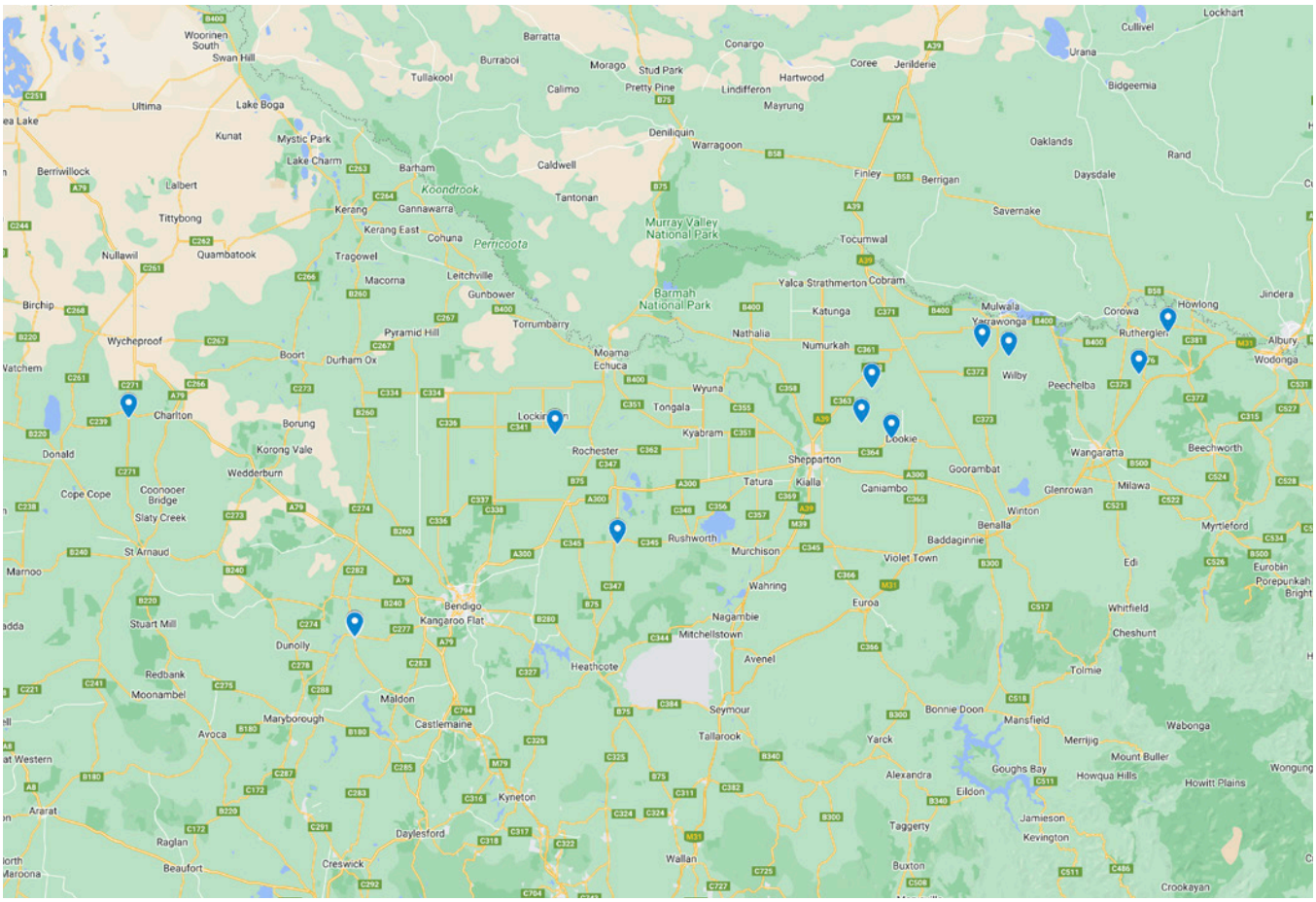
Trials listed as compromised are not suitable for making variety decisions. Results can be found in the Quarantined trial reports.

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

NVT SITE LOCATIONS – Northern Victoria

Figure 1: Locality of NVT trial sites in Northern Victoria 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]
Dozer(Ф) CL Plus	InterGrain	TBC	3.90	Dozer(Ф) CL Plus is a quick-mid maturing APW Clearfield® Plus wheat. Dozer(Ф) CL Plus pushes mid and quick-mid imidazolinone wheat yields and is an excellent alternative to Chief CL Plus. It is best suited to low-medium rainfall areas in Western Australia and South Australia. Dozer(Ф) CL Plus has strong lodging resistance, moderate early vigour, medium plant height and medium coleoptile length. Dozer(Ф) CL Plus offers good grain size and test weight. Proactive disease management of stripe rust and CCN in South Australia is recommended with Dozer(Ф) CL Plus to maximise yield and quality potential.
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.
Leverage(Ф)	Australian Grain Technologies	FEED	4.00	Replacement for EGA Gregory(Ф), Coolah(Ф) and LRPB Flanker(Ф). Very high yielding in the early planting window. APH quality classification in the northern zone, with south-eastern zone classification pending. Good resistance to major diseases. Mid-slow maturity, suited to late April/early May planting. Good yellow spot resistance. Good physical grain quality characteristics. Shorter plant type than other EGA Gregory(Ф)-type varieties.
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.
LRPB Matador(Ф)	LongReach Plant Breeders	AH	3.50	Mid-maturity AH wheat that has consistently outperformed Scepter(Ф) with an improved shorter canopy and better lodging tolerance. Improved powdery mildew (MS) and stripe rust resistance (MS) over Scepter(Ф), adding some minor genes for both diseases. AH quality in SA and Victoria and commercialised by Pacific Seeds.
Soaker(Ф)	LongReach Plant Breeders	APW	3.50	Mid-maturity derived from Scepter(Ф) with agronomy traits being very similar. Addition of one imidazolinone resistance gene so it can be grown as a 'soaker' crop to break the imidazolinone cycle and cover off residual imidazolinone carryover into the wheat year. Quality APW in South Australia and Victoria and available from AG Schilling & Co.

Continued on next page

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

Variety	Breeding company	Grain classification	End point royalty* ($)	Comments supplied by breeding company[1]
Sundancer(Ф)	Australian Grain Technologies	FEED	4.00	An ideal replacement for LRPB Lancer(Ф). Very high yielding, with excellent yield stability. Suits late April, early May planting. Excellent rust resistance. Medium-short plant type with better straw strength than LRPB Lancer(Ф). Longer coleoptile than LRPB Lancer(Ф) and other early season varieties. APH classification for the northern zone, with southern eastern zone pending.
Tomahawk CL Plus(Ф)	Australian Grain Technologies	APW	4.15	Scepter(Ф)-type Clearfield® variety with increased yield over Scepter(Ф). The highest-yielding Clearfield® wheat variety in Western Australia, South Australia and Victoria. Tolerant to Clearfield® Intervix® herbicide. Similar disease resistance profile to Scepter(Ф). Similar grain size and test weight as Scepter(Ф). Mid-season maturity, similar to Scepter(Ф). APW quality classification in SA, Victoria, southern NSW, classification for WA pending.

* 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.

Wheat variety yield performance – Northern Victoria

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

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

Table 1: Charlton main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**4.90**	**3.83**	**4.27**	**6.15**	**6.97**
Tomahawk CL Plus(ɗ)*				94	118
LRPB Matador(ɗ)				97	116
Sunmaster(ɗ)		101	104	116	111
Brumby(ɗ)			107	99	111
Calibre(ɗ)		114	107	94	111
RockStar(ɗ)	116	110	109	98	109
Sunblade CL Plus(ɗ)*	109	103	104	109	111
Ballista(ɗ)	113	109	107	104	106
Soaker(ɗ)					108
Scepter(ɗ)	115	107	106	96	112
Beckom(ɗ)	108	105	104	105	108
Vixen(ɗ)	119	110	108	84	112
RGT Zanzibar		95	103	134	98
Kingston(ɗ)	110	106	104	100	107
Dozer(ɗ) CL Plus*					106
Sowing date	**22 May**	**19 May**	**19 May**	**18 May**	**12 May**
Rainfall J–M (mm)	**36**	**101**	**117**	**59**	**49**
Rainfall A–O (mm)	**257**	**293**	**263**	**464**	**208**

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

Table 2: Diggora main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**2.22**	**4.78**	**5.64**	**6.52**	**6.27**
Sting(ɗ)	122				110
LRPB Beaufort(ɗ)		98	110		102
Ballista(ɗ)	122	108	109	107	103
Tomahawk CL Plus(ɗ)*				97	101
RockStar(ɗ)	122	111	113	100	108
Sunmaster(ɗ)		102	105	113	104
LRPB Scout(ɗ)	107	105	109	106	103
Brumby(ɗ)			106	101	104
Calibre(ɗ)		112	106	97	103
LRPB Matador(ɗ)				96	103
Reilly(ɗ)	109	105	108	105	104
Sunblade CL Plus(ɗ)*	99	104	107	106	104
Beckom(ɗ)	106	105	104	105	101
Scepter(ɗ)	119	109	105	98	102
Suncentral(ɗ)		102	104		98
Sowing date	**17 May**	**19 May**	**21 May**	**24 May**	**24 May**
Rainfall J–M (mm)	**35**	**138**	**127**	**84**	**73**
Rainfall A–O (mm)	**200**	**320**	**390**	**551**	**312**

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

Table 3: Dookie main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**2.90**	**5.84**	**7.04**	**7.41**	**7.30**
RGT Zanzibar	81	111	116	124	103
Sunmaster(ɗ)		112	112	110	103
Tomahawk CL Plus(ɗ)*				101	106
RockStar(ɗ)	115	111	114	101	104
Sunblade CL Plus(ɗ)*	107	112	112	101	101
LRPB Matador(ɗ)				91	102
LRPB Scotch(ɗ)			113	115	99
Soaker(ɗ)					102
Vixen(ɗ)	125	107	106	96	105
Ballista(ɗ)	117	104	104	106	102
Brumby(ɗ)			103	102	103
Beckom(ɗ)	111	106	105	104	103
Boree(ɗ)		106	108	97	106
Dozer(ɗ) CL Plus*					103
Scepter(ɗ)	122	106	104	100	102
Sowing date	**17 May**	**15 May**	**18 May**	**25 May**	**16 May**
Rainfall J–M (mm)	**50**	**123**	**111**	**203**	**91**
Rainfall A–O (mm)	**253**	**408**	**366**	**533**	**388**

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

Table 4: Numurkah main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**7.99**	**6.46**	**7.32**		**7.35**
Tomahawk CL Plus(ɗ)*				Compromised trial	112
RockStar(ɗ)	117	109	115		106
LRPB Matador(ɗ)					107
Sunmaster(ɗ)		110	114		106
Sunblade CL Plus(ɗ)*	113	109	112		104
Vixen(ɗ)	112	104	111		107
Scepter(ɗ)	110	106	110		107
RGT Zanzibar	108	110	113		101
Ballista(ɗ)	108	107	109		106
Brumby(ɗ)			108		108
Calibre(ɗ)		106	105		109
Beckom(ɗ)	106	106	107		105
Boree(ɗ)		103	107		105
Kingston(ɗ)	107	105	107		104
LRPB Scotch(ɗ)			111		95
Sowing date	**30 Apr**	**18 May**	**19 May**	**25 May**	**15 May**
Rainfall J–M (mm)	**39**	**158**	**151**	**133**	**43**
Rainfall A–O (mm)	**176**	**305**	**261**	**498**	**286**
Irrigation A–O (mm)			**70**		

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

Table 5: Yarrawonga main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**3.76**	**4.86**	**5.97**	**5.48**	**5.87**
RGT Zanzibar	89	102	128	125	102
Sunmaster$^{Ⓓ}$		110	119	115	106
Sunblade CL Plus$^{Ⓓ}$*	99	107	115	106	105
Tomahawk CL Plus$^{Ⓓ}$*				97	111
LRPB Matador$^{Ⓓ}$				96	109
Beckom$^{Ⓓ}$	105	106	106	106	106
Soaker$^{Ⓓ}$					104
Cutlass$^{Ⓓ}$	97	106	110	103	105
Calibre$^{Ⓓ}$		107	97	100	109
Brumby$^{Ⓓ}$			100	103	106
Dozer$^{Ⓓ}$ CL Plus*					103
RockStar$^{Ⓓ}$	110	101	110	92	106
Scepter$^{Ⓓ}$	110	104	102	98	105
EG Jet$^{Ⓓ}$		96	118	112	96
Ballista$^{Ⓓ}$	112	97	101	104	103
Sowing date	**19 May**	**23 May**	**26 May**	**3 Jun**	**11 May**
Rainfall J–M (mm)	**24**	**299**	**286**	**272**	**66**
Rainfall A–O (mm)	**198**	**462**	**252**	**627**	**315**

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

Table 6: Numurkah early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		**7.36**	**7.28**		**7.58**
RGT Zanzibar	No trial	119	112	Compromised trial	110
BigRed$^{Ⓓ}$			113		103
LRPB Beaufort$^{Ⓓ}$		116	112		110
RGT Accroc$^{Ⓓ}$		117	109		101
Leverage$^{Ⓓ}$					112
RGT Cesario$^{Ⓓ}$		117	109		99
Genie$^{Ⓓ}$					108
RockStar$^{Ⓓ}$		104	106		112
Sundancer$^{Ⓓ}$					109
Stockade$^{Ⓓ}$			107		102
LRPB Major$^{Ⓓ}$					108
LRPB Scotch$^{Ⓓ}$					102
IGW6755					102
Valiant$^{Ⓓ}$ CL Plus*		102	103		104
Willaura$^{Ⓓ}$			104		109
Sowing date		**24 Apr**	**5 May**	**2 May**	**1 May**
Rainfall J–M (mm)		**158**	**151**	**133**	**43**
Rainfall A–O (mm)		**305**	**261**	**498**	**286**

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

Table 7: Rutherglen early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**5.86**	**6.48**	**6.61**	**4.80**	**6.67**
RGT Zanzibar	107	114	114	129	113
LRPB Beaufort$^{Ⓓ}$	108	113	115	123	111
Leverage$^{Ⓓ}$					115
BigRed$^{Ⓓ}$			117	135	97
Sundancer$^{Ⓓ}$					111
Willaura$^{Ⓓ}$			115	100	113
RGT Cesario$^{Ⓓ}$		108	115	131	95
RGT Accroc$^{Ⓓ}$	96	109	114	126	95
Stockade$^{Ⓓ}$			109	121	102
Genie$^{Ⓓ}$					108
LRPB Major$^{Ⓓ}$				104	110
RockStar$^{Ⓓ}$	115	105	101	89	109
LRPB Scotch$^{Ⓓ}$				114	103
Valiant$^{Ⓓ}$ CL Plus*		103	102	101	105
Denison$^{Ⓓ}$	110	101	100	89	110
Sowing date	**30 Apr**	**23 Apr**	**2 May**	**22 Apr**	**25 Apr**
Rainfall J–M (mm)	**71**	**151**	**189**	**186**	**209**
Rainfall A–O (mm)	**216**	**403**	**304**	**555**	**415**

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

Wheat variety quality – Northern Victoria

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

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

Protein and yield comparisons

Figure 1: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from four NVT sites in northern Victoria in 2022.

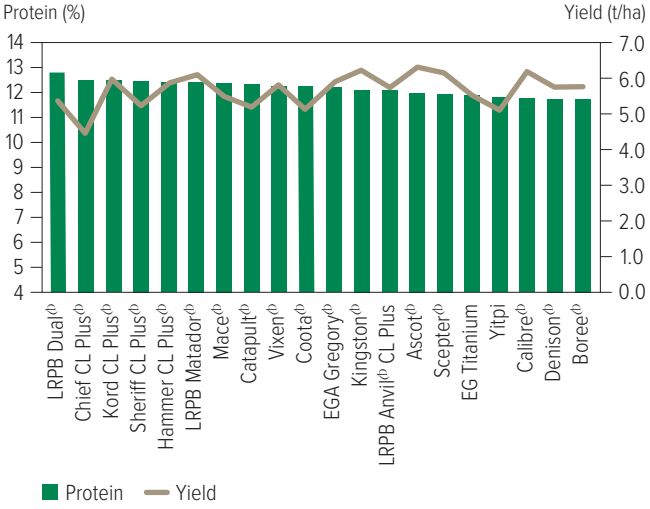


Figure 2: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from five NVT sites in northern Victoria in 2023.

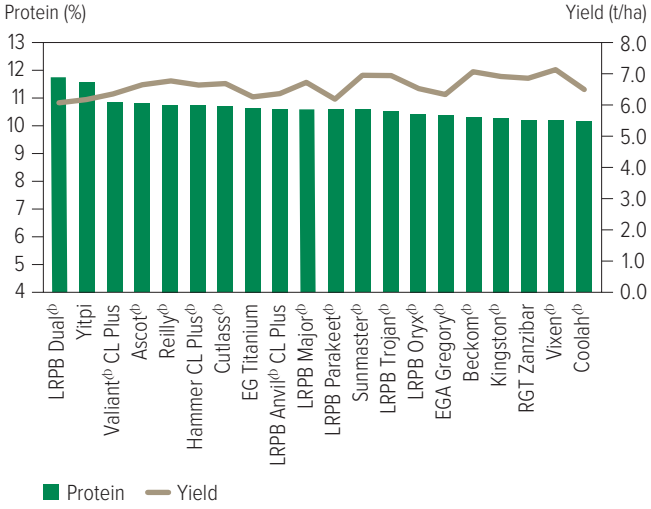


Figure 3: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from one NVT site in northern Victoria in 2022.

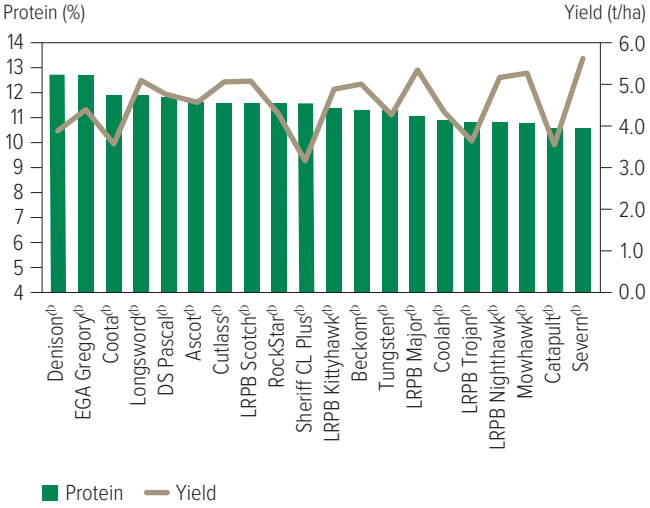
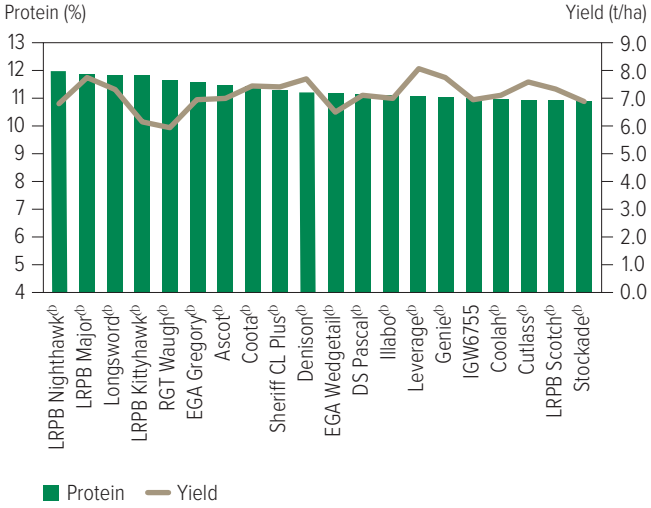


Figure 4: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from two NVT sites in northern Victoria in 2023.



Test weight comparisons

Figure 5: Test weight (kg/hL) comparisons for main season wheat varieties from four NVT sites in northern Victoria in 2022.

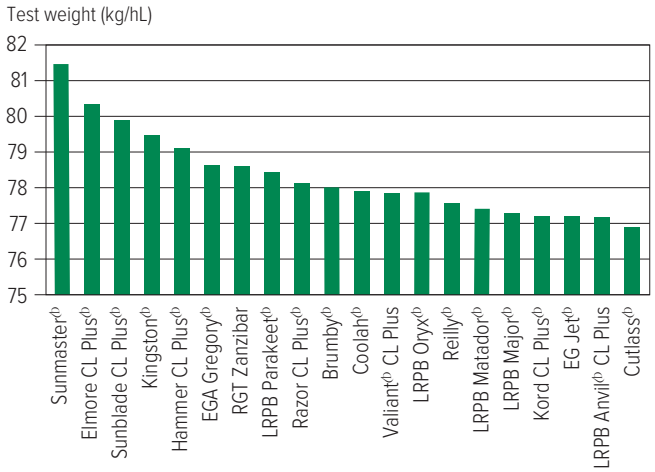


Figure 6: Test weight (kg/hL) comparisons for main season wheat varieties from five NVT sites in northern Victoria in 2023.

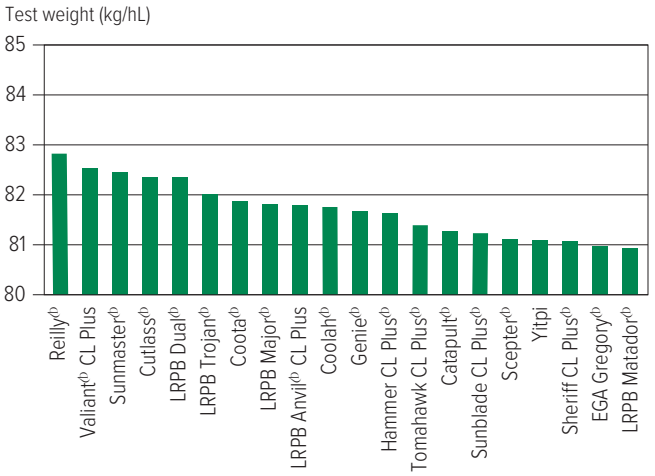


Figure 7: Test weight (kg/hL) comparisons for early season wheat varieties from one NVT site in northern Victoria in 2022.

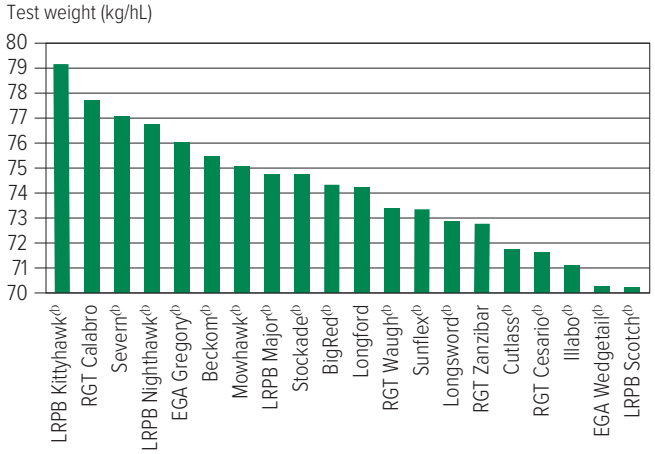
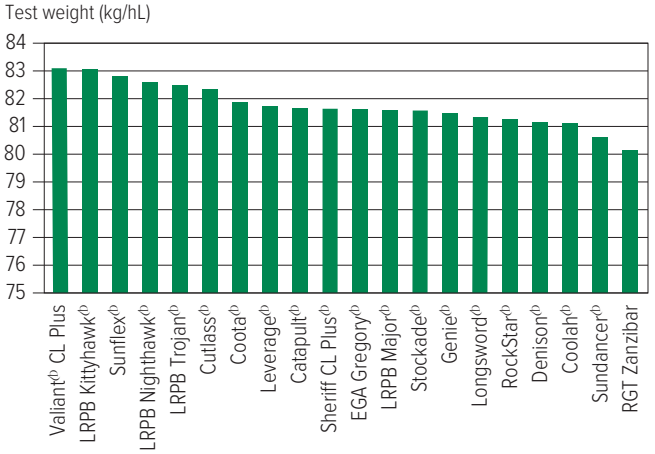


Figure 8: Test weight (kg/hL) comparisons for early season wheat varieties from two NVT sites in northern Victoria in 2023.



Screenings comparisons

Figure 9: Screenings (<2.0mm) comparisons for main season wheat varieties from four NVT sites in northern Victoria in 2022.

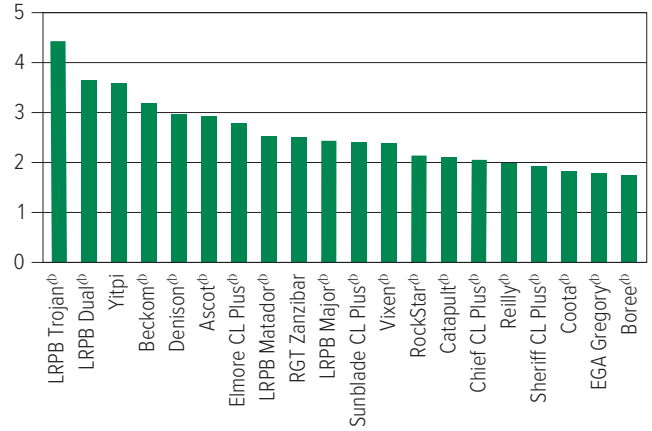


Figure 10: Screenings (<2.0mm) comparisons for main season wheat varieties from five NVT sites in northern Victoria in 2023.

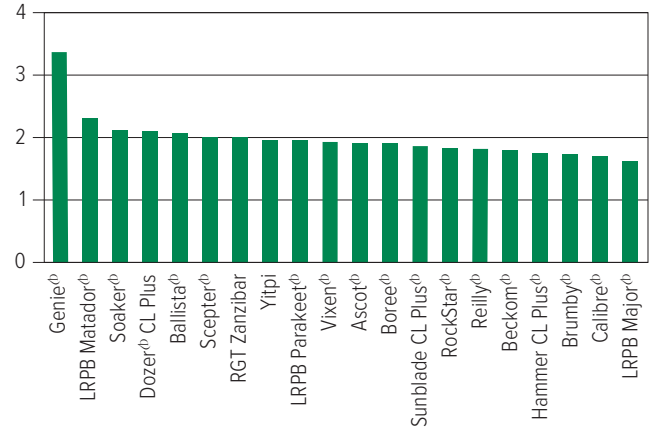


Figure 11: Screenings (<2.0mm) comparisons for early season wheat varieties from one NVT site in northern Victoria in 2022.

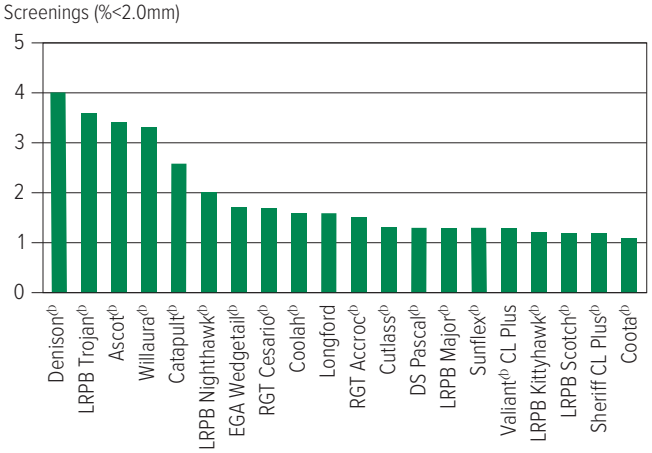
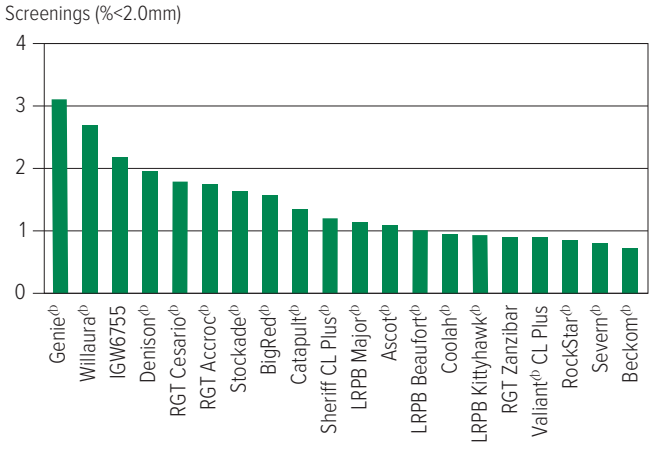


Figure 12: Screenings (<2.0mm) comparisons for early season wheat varieties from two NVT sites in northern Victoria in 2023.



Wheat variety disease ratings – Victoria

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

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

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

Continued on next page

Table 8: Wheat disease guide for Victoria (continued).

Variety	Stem rust	Leaf rust	Stripe rust (east coast resistance)	CCN	Crown rot	Eyespot	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)	*Septoria tritici* blotch	Yellow leaf spot	Black tip (Black point)	Powdery mildew
LRPB Beaufort(Ф)	SVS	MSS	RMR	MS	S		MS	MSS	S	MRMS	MRMS	RMR
LRPB Dual(Ф)	MRMS	MSS	MS	R	S	S	MSS	MSS	MSS	S	S	S
LRPB Havoc(Ф)	S	S	MSS	S	MSS		S	MSS	MSS	MRMS	MS	S
LRPB Hellfire(Ф)	MR	MSS	MR	MS	MSS		MSS	MSS	S	MSS	S	S
LRPB Impala(Ф)	MR	SVS	MRMS	MSS	MSS		SVS	S	SVS	MSS	MS	R
LRPB Kittyhawk(Ф)	MRMS (S)	MR	MR	S	SVS	S	S	S	MRMS	MRMS	MRMS	MS
LRPB Lancer(Ф)	R	RMR	RMR	S	MSS		S	MS	MS	MS	MRMS	R
LRPB Major(Ф)	MRMS	MR#	MRMS	MRMS (P)	S	S (P)	MSS	MSS	MSS	MS	MRMS (P)	MS
LRPB Matador(Ф)	MS	MSS	MS	MS (P)	S	S (P)	S	MRMS	S (P)	MRMS	MRMS (P)	MS
LRPB Mustang(Ф)	MRMS	MSS	MR	MR	MSS		S	MSS	S	MSS	MS	MSS
LRPB Nighthawk(Ф)	RMR	MSS	MR	MS	MSS		MSS	MS	MS	MS	MS	SVS
LRPB Oryx(Ф)	MR	RMR#	MS	S	MSS	S	MSS	MSS	SVS	MSS	MS	MR
LRPB Parakeet(Ф)	MR	R	MR	MS	MSS	S	MRMS	S	SVS	MSS	MS	SVS
LRPB Raider(Ф)	RMR	RMR	MR	S	S		MSS	MS	S	MSS	MSS	S
LRPB Scotch(Ф)	MSS	MR#	MRMS	MS	S	S	MS	S	S	MRMS	MS	MR
LRPB Scout(Ф)	MRMS	MS	MS	R	S		S	MSS	S	SVS	S	MRMS
LRPB Stealth(Ф)	R	RMR#	RMR	S	MSS		MSS	S	MSS	MS	MRMS	MS
LRPB Trojan(Ф)	MRMS	MR#	S	MS	MS	MS	MSS	MSS	S	MSS	MS	S
Mace(Ф)	MRMS	S	SVS	MRMS	S	S	MS	MS	SVS	MRMS	MRMS	MSS
Manning(Ф)	MR	MSS	RMR	S	VS	MS (P)	MSS	S	MRMS/S	MRMS	S	MS
Razor CL Plus(Ф)	MRMS	S	MRMS	MR	S	S	S	MS	SVS	MSS	MS	MSS
Reilly(Ф)	MRMS	MSS	MS	R	S	S	MS	MSS	S	S	MSS	MSS
RGT Accroc(Ф)	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(Ф)	RMR	RMR	RMR	MSS (P)	VS		MRMS	MSS	MRMS	MR		RMR
RGT Waugh(Ф)	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(Ф)	MRMS	S	S	MSS	S	S	MRMS	MS	S	MRMS	MSS	SVS
Saintly(Ф)	MS	RMR	MRMS	S	VS (P)		MS	RMR	MRMS/S	MRMS	MS	S
Scepter(Ф)	MRMS	MSS	MSS	MRMS	MSS	S	S	MSS	S	MRMS	MS	SVS
Severn(Ф)	MS	MRMS	RMR	MSS (P)	S		S	MRMS	MSS	MRMS	MR	RMR
Sheriff CL Plus(Ф)	MS	SVS	SVS	MS	S	S	MRMS	MRMS	S	MRMS	MS	SVS
Soaker(Ф)	MR (P)	S (P)	MS (P)						S (P)	MS (P)		S (P)
SQP Revenue(Ф)	RMR	VS	MR	S	S	S	S	S	MSS	MRMS	MS	R
Sting(Ф)	MRMS	SVS	S	MS	MSS		MS	MS	SVS	MRMS	S	SVS
Stockade(Ф)	MS	MR	MR	MRMS	S		S	MSS	MS	MRMS	MRMS	SVS
Sunblade CL Plus(Ф)	MS	MSS	MRMS	MSS	S		MSS	MRMS	S	MSS	MRMS	S
Suncentral(Ф)	MRMS	RMR		S	MSS		MRMS	MRMS	S	MSS	MRMS	SVS
Sundancer(Ф)	MR	RMR	MR	MS (P)	MSS		MSS	MS	MSS	MS	MSS (P)	S
Sunflex(Ф)	MR	RMR#	MRMS	MS	MSS		S	MSS	SVS	MS	MSS	S
Sunmaster(Ф)	MS	RMR	MRMS	MSS	MSS		MRMS	MS	S	MSS	MR	MSS
Sunprime(Ф)	MS	MR#	MS	MS	MSS		S	S	S	MSS	MSS	
Suntop(Ф)	MRMS	MR	MRMS	S	MSS		S	MRMS	MSS	MSS	MSS	S
Tomahawk CL Plus(Ф)	MR	S	MSS	MRMS (P)	S	S (P)	S	MS	S (P)	MRMS	S (P)	SVS
Valiant(Ф) CL Plus	MR	S	S	MSS (P)	MSS	MSS	S	S (P)	MSS	MRMS	MS (P)	VS
Vixen(Ф)	MRMS	SVS	SVS	MSS	S	S	MRMS	MS	S	MRMS	MSS	SVS
Willaura(Ф)	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 8: 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(Ф)	MR	RMR	MS	MRMS (P)	VS		MS	MR	MRMS/S	MR	MSS	S
DBA Bindaroi(Ф)	MR	MR	MS	MS	SVS		MRMS	MR	MS	MS	MRMS	MSS
DBA Lillaroi(Ф)	RMR	RMR	MS	S	SVS		MRMS	RMR	S	MRMS	MS	MS
DBA Mataroi(Ф)	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(Ф)	MR	RMR	MS	S	SVS		MS	MR	MSS	MRMS	MSS	MS
DBA-Artemis(Ф)	MR	RMR	MRMS	MS	SVS		MS	MR	MRMS/S	MRMS	MS	SVS
DBA-Aurora(Ф)	RMR	RMR	MRMS	MSS	SVS		MRMS	RMR	MRMS/S	MRMS	MS	MSS
Jandaroi(Ф)	MRMS	MR	MRMS	MS	VS		MS	MRMS	MSS	MRMS	MS	MS
Patron(Ф)	RMR	MR#	MRMS	S	SVS		MRMS	MR	MRMS	MRMS	MSS	MSS
Westcourt(Ф)	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 – Northern Victoria

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

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

Table 1: Charlton main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		4.38	4.52	7.34	6.67
Neo(ↄ) CL*	Compromised trial				124
Combat(ↄ)			117	114	110
Cyclops(ↄ)		109	108	106	114
Minotaur(ↄ)		107	105	108	115
Spinnaker(ↄ)				112	109
RGT Planet(ↄ)		103	105	112	108
Rosalind(ↄ)		104	107	106	110
Zena(ↄ) CL*			103	109	107
Laperouse(ↄ)		103	100	98	108
Yeti(ↄ)		102	101	98	105
Maximus(ↄ) CL*		101	99	95	110
La Trobe(ↄ)		101	103	97	102
Spartacus CL(ↄ)*		100	100	95	106
Titan AX(ↄ)*				99	90
Bottler(ↄ)		97	97	102	98
Sowing date	22 May	19 May	19 May	18 May	12 May
Rainfall J–M (mm)	36	101	117	59	49
Rainfall A–O (mm)	257	293	263	464	208

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

Table 2: Colbinabbin main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	3.98		5.93	6.39	7.09
Neo(ↄ) CL*		Trial failed			123
RGT Planet(ↄ)	104		117	117	110
Spinnaker(ↄ)				115	110
Combat(ↄ)			114	109	109
Zena(ↄ) CL*			114	114	108
Minotaur(ↄ)			106	104	111
Rosalind(ↄ)	107		104	106	103
Cyclops(ↄ)			102	98	108
Bottler(ↄ)	95		105	107	103
Alestar(ↄ)	91		101	102	101
Buff(ↄ)	105		100	97	96
La Trobe(ↄ)	105		96	95	95
Titan AX(ↄ)*				94	94
Commander(ↄ)	99		96	92	99
Fathom(ↄ)	105		96	96	92
Sowing date	25 May	18 May	20 May	23 May	25 May
Rainfall J–M (mm)	27	162	119	89	119
Rainfall A–O (mm)	230	389	306	580	291

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

Table 3: Yarrawonga main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	5.63	5.08	5.33	5.72	6.23
Neo(ↄ) CL*					112
RGT Planet(ↄ)	110	105	103	112	111
Spinnaker(ↄ)				111	109
Zena(ↄ) CL*			102	111	109
Rosalind(ↄ)	106	108	105	108	103
Minotaur(ↄ)		108	108	106	103
Fandaga(ↄ)			101	107	109
Combat(ↄ)			99	103	104
Bottler(ↄ)	101	101	101	106	104
Cyclops(ↄ)		105	105	101	100
Yeti(ↄ)	95	108	107	102	94
Alestar(ↄ)	97	99	100	102	103
Maximus(ↄ) CL*	93	108	107	100	95
Kiwi	98	98	99	102	102
Laperouse(ↄ)	94	105	106	98	95
Sowing date	19 May	23 May	26 May	3 Jun	11 May
Rainfall J–M (mm)	24	299	286	272	66
Rainfall A–O (mm)	198	462	252	627	315

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

Barley variety quality – Northern Victoria

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

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

Protein and yield comparisons

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

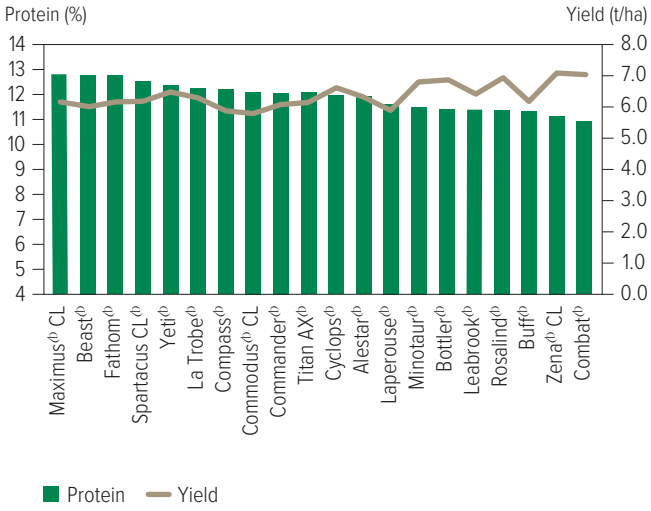
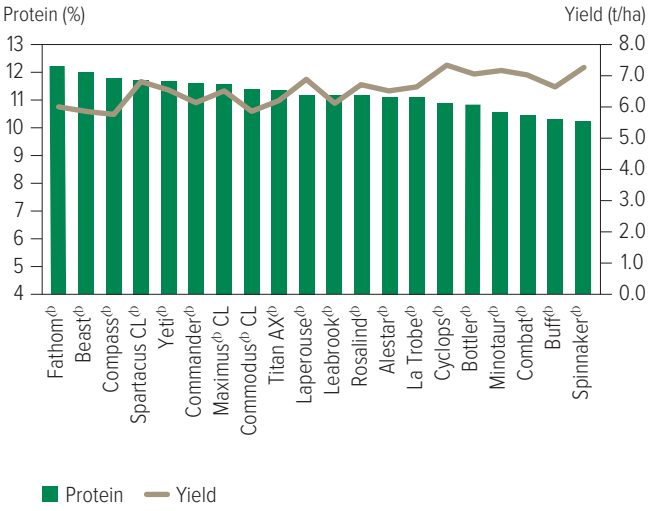


Figure 2: Protein (%) and yield (t/ha) comparisons for main season barley varieties from three NVT sites in northern Victoria in 2023.



Test weight comparisons

Figure 3: Test weight (kg/hL) comparisons for main season barley varieties from three NVT sites in northern Victoria in 2022.

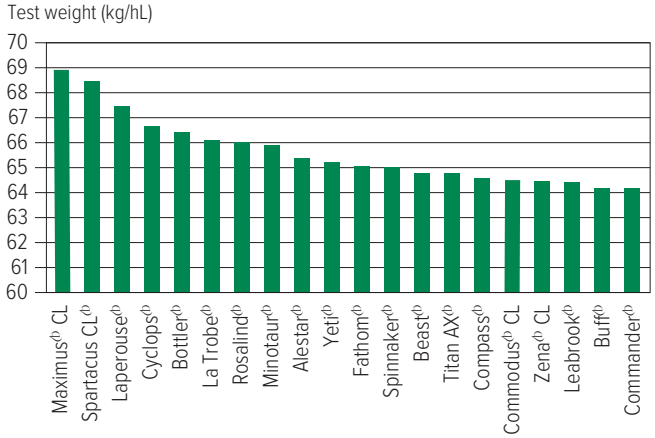
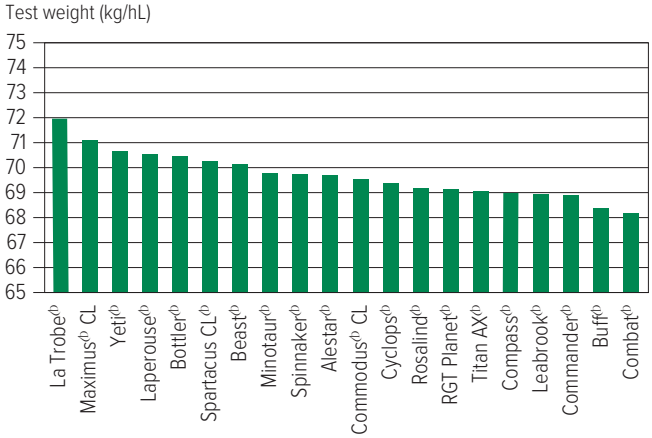


Figure 4: Test weight (kg/hL) comparisons for main season barley varieties from three NVT sites in northern Victoria in 2023.



Screenings comparisons

Figure 5: Screenings (<2.2mm) comparisons for main season barley varieties from three NVT sites in northern Victoria in 2022.

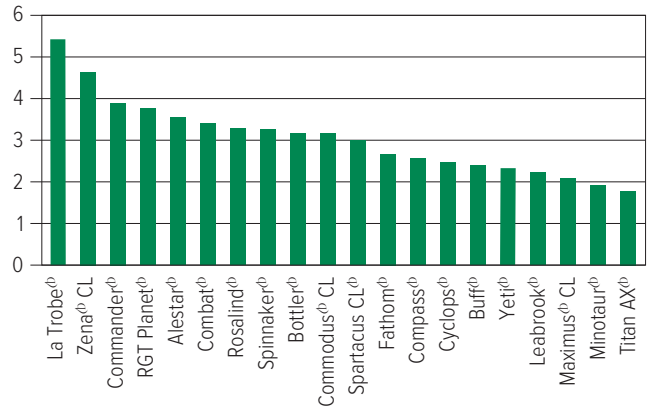
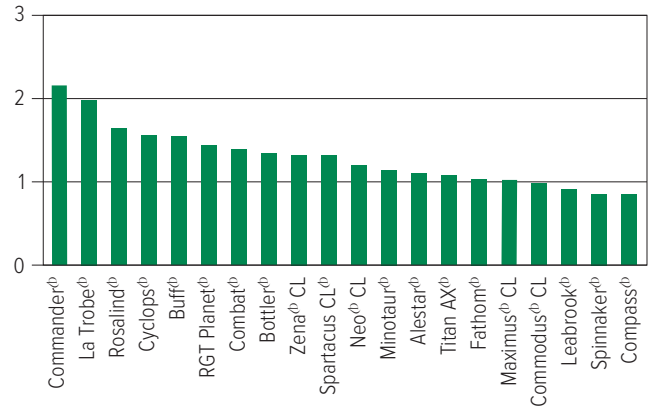


Figure 6: Screenings (<2.2mm) comparisons for main season barley varieties from three NVT sites in northern Victoria in 2023.



Retention comparisons

Figure 7: Retention (>2.5mm) comparisons for main season barley varieties from three NVT sites in northern Victoria in 2022.

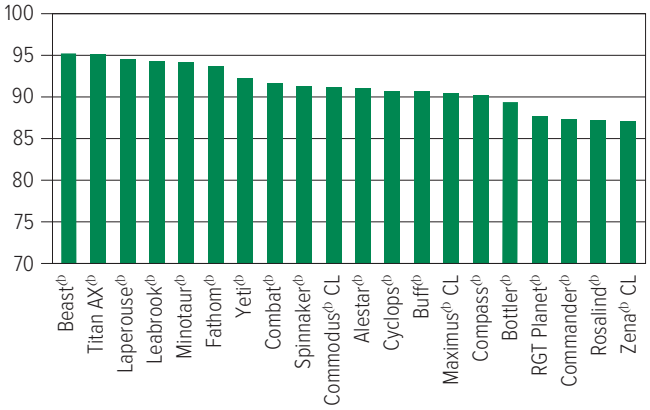
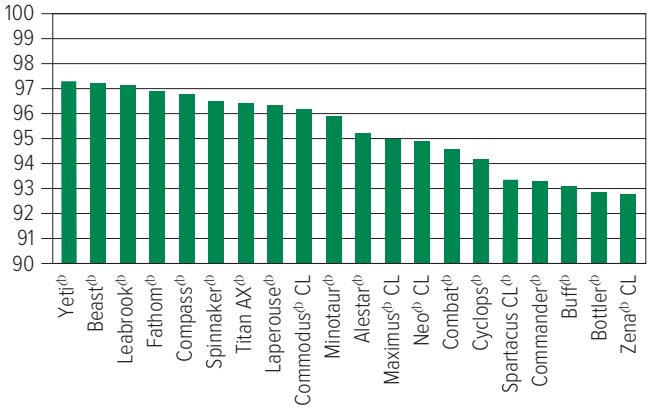


Figure 8: Retention (>2.5mm) comparisons for main season barley varieties from three NVT sites in northern Victoria in 2023.



Barley variety disease ratings – Victoria

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

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

Table 4: 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(ф)	SVS	S	S	MS	R^ (P)	MR	MR	SVS	MR
Banks(ф)	SVS	S	MR	S	S	MS	MR	VS	MS
Bass(ф)	S	MSS	S	SVS	S	MS	MRMS	VS	S
Beast(ф)	SVS	MS	MRMS	S	MR	MRMS	MRMS	SVS	S
Bottler(ф)	SVS	MSS	MR	MRMS		MS	RMR	SVS	RMR
Buff(ф)	SVS	MSS	MS	SVS		MRMS	MS	SVS	S
Combat(ф)	S	RMR	MRMS#	S	MR	MRMS	MS	SVS	MS
Commander(ф)	SVS	MSS	S	SVS	R	MRMS	MRMS	SVS	MSS
Commodus(ф) CL	SVS	MSS	MSS	S	R	MRMS	MRMS	SVS	MSS
Compass(ф)	SVS	MS	MS	SVS	R	MRMS	MR	SVS	S
Cyclops(ф)	S	MS	MRMS	SVS	S	MRMS	MRMS	SVS	SVS
Fairview(ф)	SVS	S	SVS	S		MR	MR	SVS	R
Fandaga(ф)	SVS	S	MRMS	MSS	R	MR	MR	VS	R
Fathom(ф)	S	RMR	MSS	MS	R	MRMS	MR	SVS	MRMS
Flinders(ф)	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(ф)	SVS	S	MS	S	R	MRMS	MRMS	SVS	MSS
Laperouse(ф)	VS	MRMS	MRMS#	SVS	S	MRMS	MR	VS	MSS
Leabrook(ф)	SVS	MS	MS#	SVS	RMR	MRMS	RMR	VS	S
Litmus(ф)	VS	S	S	SVS	MS	MS	MRMS	VS	MS
Maximus(ф) CL	SVS	MS	MRMS	S	R	MRMS	MRMS	VS	S
Minotaur(ф)	VS	S	MRMS	VS	R	MRMS	MRMS	SVS	S
Neo(ф) CL	S (P)	MR (P)	MS (P)	S (P)	R	RMR (P)	MR (P)	SVS (P)	RMR (P)
RGT Planet(ф)	SVS	SVS	SVS	MRMS	R (P)	MRMS	MR	SVS	RMR
Rosalind(ф)	S	S	MR	MRMS	R	MRMS	MRMS	VS	MSS
SakuraStar	SVS	MS	MSS	S	R	MR	MR	SVS	MSS
Scope CL(ф)	SVS	MSS	MR#	S	S	MRMS	MRMS	SVS	MRMS
Spartacus CL(ф)	SVS	S	S	S	R	MRMS	MRMS	VS	MSS
Spinnaker(ф)	S	SVS	S	S	S	MR	MS	VS	RMR
Titan AX(ф)	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(ф)	SVS	S	MRMS	MRMS		MRMS	MS	SVS	RMR
Yeti(ф)	VS	MS	MR#	SVS	RMR	MR	MR	VS	S
Zena(ф) 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(Φ)	InterGrain	3.65	Archer(Φ) 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(Φ). Excess grain, seed and screenings produced from single-gene imidazolinone oaten hay varieties Kingbale(Φ) and Archer(Φ) 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.
Kingbale(Φ)	InterGrain	3.65	Kingbale(Φ) is a mid-slow 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 Kingbale(Φ). Excess grain, seed and screenings produced from Kingbale(Φ) and Archer(Φ) 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.
Kultarr(Φ)	InterGrain	3.00	Kultarr(Φ) is a quick-mid maturing oaten hay suitable for low-medium production areas. Kultarr(Φ) has a tall plant height and a suitable hay quality profile for export hay.
Wallaby(Φ)	InterGrain	3.00	Wallaby(Φ) is a mid-maturing oaten hay well suited to medium and high production areas. Wallaby(Φ) has excellent hay yields.

* 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 – Northern Victoria

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

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

Table 1: Diggora oat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.19	5.06	5.50	4.29	6.10
Koala(ф)	106	108	123	105	107
13008-18			116	108	106
Bannister(ф)	107	105	115	105	105
Echidna	91	103	109	106	103
Bilby(ф)	104	100	102	105	101
Wallaby(ф)					101
Williams(ф)	85	103	102	100	102
Archer(ф)*					104
Kowari(ф)	102	97	95	101	98
Mitika(ф)	97	96	89	97	96
Sowing date	**17 May**	**19 May**	**21 May**	**24 May**	**24 May**
Rainfall J–M (mm)	**35**	**138**	**127**	**84**	**73**
Rainfall A–O (mm)	**200**	**320**	**390**	**551**	**312**

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

Table 2: Dookie oat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.87	4.20	5.16	4.09	4.83
13008-18			127	110	113
Bannister(ф)	99	106	123	105	106
Koala(ф)	84	110	133	97	102
Bilby(ф)	112	105	109	104	107
Echidna	90	110	120	100	103
Archer(ф)*					96
Kowari(ф)	111	101	96	99	103
Williams(ф)	90	96	99	119	98
Wallaby(ф)					97
Mitika(ф)	106	96	84	98	98
Sowing date	**17 May**	**15 May**	**19 May**	**17 May**	**16 May**
Rainfall J–M (mm)	**50**	**123**	**111**	**203**	**91**
Rainfall A–O (mm)	**253**	**408**	**366**	**533**	**388**

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

Table 3: Eastville oat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.79	4.26	6.51	6.37	3.14
Archer(ф)*					97
Koala(ф)	108	112	120	100	101
13008-18			111	96	109
Bannister(ф)	112	108	112	101	103
Williams(ф)	108	105	106	107	98
Echidna	100	104	106	107	102
Wallaby(ф)					98
Bilby(ф)	106	100	99	102	105
Kowari(ф)	99	96	93	100	102
Mitika(ф)	93	94	90	99	99
Sowing date	**20 May**	**18 May**	**20 May**	**23 May**	**25 May**
Rainfall J–M (mm)	**34**	**88**	**165**	**212**	**60**
Rainfall A–O (mm)	**363**	**336**	**264**	**602**	**249**

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

Oat variety disease ratings – Victoria

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

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

Table 4: 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 Avon TT(ϕ)	Nutrien Ag Solutions Ltd	5.50	Early, determinant, short TT open-pollinated variety suited to low-medium rainfall zones.
DG Drummond TF	Nutrien Ag Solutions Ltd	N/A	DG Drummond TF is a tall, mid-late maturing, glyphosate-tolerant hybrid with group H blackleg resistance. DG Drummond TF is suited to medium to high-rainfall areas.
Hyola® Continuum CL	Advanta Seeds	N/A	An early-mid maturity Clearfield® hybrid, Continuum CL provides wide environmental adaptability with excellent grain oil potential. It exhibits strong yields in target environments and demonstrates excellent adaptability to growing regions with a range of 1.5 to 5.5t/ha. Continuum CL showcases an exceptionally high level of early plant vigour, high lodging resistance, and an outstanding blackleg rating of 'R' due to its distinctive tri-group resistance, ADF.
Hyola® Defender CT	Advanta Seeds	N/A	A mid-season maturity CT hybrid, Defender CT delivers remarkable grain yield, robust plant vigour and a very high grain oil content. Defender CT performance is closely aligned with the renowned Hyola® Blazer TT variety. Defender CT offers uniform flowering, manageable height for direct harvesting and an exceptional blackleg rating of 'R-MR' due to its distinctive tri-group resistance, ADF.
InVigor® LR 4540P	BASF Australia Ltd	N/A	New LibertyLink® hybrid with tolerance to both Liberty® and TruFlex®. Combines two herbicide tolerances with the flexibility of PodGuard® for shatter tolerance. Early-mid maturing variety suited to low and medium-rainfall zones. Marketed by BASF.
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.
Nuseed® Ceres IMI	Nuseed	N/A	Nuseed® Ceres IMI is Nuseed®'s first release in this popular herbicide technology. It has demonstrated competitive yield and excellent oil during trials, and exhibits strong early vigour and good early biomass. Suited to quick canola growing regions, Nuseed® Ceres IMI comes with good blackleg resistance and harvestability.
PY323G	Pioneer Hi-Bred Aust	N/A	Pioneer® PY323G is an early maturing Optimum GLY® hybrid variety. Suited to early-mid and mid-season growing regions. Mid-fast phenology. Medium height. Blackleg resistance rating NA, resistance group NA. Tested in NVT trials 2023. Marketed by Pioneer Seeds.
PY421C	Pioneer Hi-Bred Aust	N/A	Pioneer® PY421C is an early to mid-maturing hybrid with exceptional yield for maturity and widely adapted. Blackleg rating of 'R-MR', resistance group A. Marketed by Pioneer Seeds.
PY422G	Pioneer Hi-Bred Aust	N/A	Pioneer® PY422G is an early-mid maturing Optimum GLY® hybrid variety. Suited to early-mid and mid-season growing regions. Mid-fast phenology. Medium height. Blackleg resistance rating NA, resistance group NA. Tested in NVT trials 2023. Marketed by Pioneer Seeds.

Continued on next page

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

Variety	Breeding company	End point royalty* ($)	Comments supplied by breeding company[1]
PY424GC	Pioneer Hi-Bred Aust	N/A	Variety description not supplied.
PY525G	Pioneer Hi-Bred Aust	N/A	Pioneer® PY525G is a mid-maturing Optimum GLY® hybrid variety. Suited to mid-season growing regions. Mid-phenology. Medium-tall height. Blackleg resistance rating NA, resistance group NA. Tested in NVT trials 2023. Marketed by Pioneer Seeds.

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

Canola variety yield performance – Northern Victoria

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

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

Table 1: Charlton med-high rainfall GLY.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.58	2.64	2.67	3.17	2.99
InVigor® R 4520P	109	108	106	114	114
InVigor® LR 4540P				110	113
Nuseed® Hunter TF			105	105	107
Pioneer® 44Y30 RR					106
InVigor® R 4022P	102	101	99	104	108
PY422G					101
PY525G					99
PY424GC					102
PY323G					100
DG Drummond TF					97
Sowing date	**9 May**	**4 May**	**5 May**	**22 Apr**	**25 Apr**
Rainfall J–M (mm)	**36**	**101**	**117**	**59**	**49**
Rainfall A–O (mm)	**257**	**293**	**263**	**464**	**208**

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

Table 2: Diggora med-high rainfall GLY.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.23	3.09	3.40	3.42	3.96
InVigor® R 4520P	123	110	104	119	107
InVigor® LR 4540P				113	107
Nuseed® Hunter TF				107	105
Pioneer® 44Y30 RR					103
InVigor® R 4022P	113	105	98	106	103
PY525G					101
PY422G					100
PY424GC					100
Hyola® Regiment XC			109		103
PY323G					100
Sowing date	**6 May**	**5 May**	**5 May**	**25 Apr**	**26 Apr**
Rainfall J–M (mm)	**33**	**138**	**127**	**84**	**73**
Rainfall A–O (mm)	**199**	**320**	**390**	**551**	**312**

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

Table 3: Wunghnu med-high rainfall GLY.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.01	2.62	3.39	3.22	1.84
InVigor® R 4520P	133	118	101	110	111
Pioneer® 45Y28 RR		106	111	110	103
Nuseed® Hunter TF				104	105
InVigor® LR 4540P				103	107
Nuseed® Eagle TF				110	102
PY525G					105
Hyola® Regiment XC			112	95	108
Pioneer® 44Y30 RR		103			102
PY422G					100
InVigor® R 4022P	123	106	93	97	104
Sowing date	**5 May**	**21 Apr**	**6 May**	**2 May**	**2 May**
Rainfall J–M (mm)	**5**	**158**	**112**	**121**	**91**
Rainfall A–O (mm)	**194**	**305**	**264**	**479**	**388**

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

Table 4: Yarrawonga med-high rainfall GLY.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.77	3.58	2.87	2.77	2.31
InVigor® R 4520P	127	105	106	113	112
InVigor® LR 4540P				105	104
Nuseed® Hunter TF				104	103
PY525G					110
Hyola® Regiment XC			110	91	110
Pioneer® 45Y28 RR		106	105	109	104
Nuseed® Eagle TF				109	103
Pioneer® 44Y30 RR		104			99
InVigor® R 4022P	117	99	100	99	104
PY422G					103
Sowing date	**7 May**	**28 Apr**	**3 May**	**3 May**	**4 May**
Rainfall J–M (mm)	**24**	**299**	**286**	**272**	**66**
Rainfall A–O (mm)	**198**	**462**	**252**	**627**	**315**

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

Table 5: Charlton med-high rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.54	2.67	2.89	2.93	3.12
PY421C					116
Pioneer® 44Y94 CL		112	110	118	108
Pioneer® 45Y95 (CL)					107
Hyola® Continuum CL				109	101
Hyola® Solstice CL			106	91	104
Pioneer® 43Y92 (CL)	102	102			101
Nuseed® Ceres IMI				90	101
Hyola® Equinox CL		98	100	86	
PY520TC					93
VICTORY® V75-03CL					92
Sowing date	**9 May**	**4 May**	**5 May**	**22 Apr**	**25 Apr**
Rainfall J–M (mm)	**36**	**101**	**117**	**59**	**49**
Rainfall A–O (mm)	**257**	**293**	**263**	**464**	**208**

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

Table 6: Diggora med-high rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.04	3.21	3.41	3.33	3.66
PY421C					112
Pioneer® 45Y95 (CL)					108
Pioneer® 44Y94 CL		109	111	120	107
Hyola® Solstice CL			113	95	108
Hyola® Continuum CL				109	102
Pioneer® 43Y92 (CL)	99	102			101
Hyola® Equinox CL		99	105	88	
Nuseed® Ceres IMI				89	102
PY520TC					96
VICTORY® V75-03CL					93
Sowing date	**6 May**	**5 May**	**5 May**	**25 Apr**	**26 Apr**
Rainfall J–M (mm)	**33**	**138**	**127**	**84**	**73**
Rainfall A–O (mm)	**199**	**320**	**390**	**551**	**312**

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

Table 7: Wunghnu med-high rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	0.78	2.78	3.23	3.40	2.09
PY421C				121	114
Pioneer® 45Y95 (CL)				120	108
Pioneer® 44Y94 CL	114	108	115	119	104
Pioneer® 45Y93 CL	106	111		122	105
Hyola® Solstice CL			118	95	111
Hyola® Continuum CL				111	99
Hyola® Equinox CL		107	107	87	
Nuseed® Ceres IMI			105	87	100
PY520TC				102	97
VICTORY® V75-03CL	76	87			92
Sowing date	**5 May**	**21 Apr**	**6 May**	**2 May**	**2 May**
Rainfall J–M (mm)	**5**	**158**	**112**	**121**	**91**
Rainfall A–O (mm)	**194**	**305**	**264**	**479**	**388**

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

Table 8: Yarrawonga med-high rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.51	3.20	2.72	2.95	2.05
PY421C				124	118
Pioneer® 45Y95 (CL)	114		108	120	109
Hyola® Solstice CL				91	114
Pioneer® 45Y93 CL	105	104	106	124	109
Pioneer® 44Y94 CL	112	111	102	120	101
Hyola® Continuum CL				111	95
Hyola® Equinox CL		107	107	84	
Nuseed® Ceres IMI			97	85	94
PY520TC				102	101
VICTORY® V75-03CL	79	91			90
Sowing date	**7 May**	**28 Apr**	**3 May**	**3 May**	**4 May**
Rainfall J–M (mm)	**24**	**299**	**286**	**272**	**66**
Rainfall A–O (mm)	**198**	**462**	**252**	**627**	**315**

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

Table 9: Charlton med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**2.04**	**2.31**	**2.66**	**2.91**	**2.95**
Hyola® Blazer TT		113	112	116	108
HyTTec® Trifecta			112	111	107
Hyola® Defender CT				118	105
SF Dynatron TT	110	110	108	115	108
PY520TC					104
RGT Baseline® TT				115	105
HyTTec® Trophy	111	110	109	108	105
RGT Capacity TT	108	106	105	111	108
Renegade TT(ϕ)				115	112
InVigor® T 4510	108	107	105	106	106
Sowing date	**9 May**	**4 May**	**5 May**	**22 Apr**	**25 Apr**
Rainfall J–M (mm)	**36**	**101**	**117**	**59**	**49**
Rainfall A–O (mm)	**257**	**293**	**263**	**464**	**208**

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

Table 10: Diggora med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**1.10**		**3.24**	**3.07**	**3.47**
HyTTec® Trifecta		Trial failed	115	115	109
Hyola® Blazer TT			113	120	108
Hyola® Defender CT				121	105
SF Dynatron TT	108		108	118	106
RGT Baseline® TT			107	119	105
PY520TC					105
HyTTec® Trophy	105		112	110	106
RGT Capacity TT	116		104	114	105
InVigor® T 4511			107	108	105
Renegade TT(ϕ)			95	118	104
Sowing date	**6 May**	**5 May**	**5 May**	**25 Apr**	**26 Apr**
Rainfall J–M (mm)	**33**	**138**	**127**	**84**	**73**
Rainfall A–O (mm)	**199**	**320**	**390**	**551**	**312**

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

Table 11: Wunghnu med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**1.02**	**2.76**	**2.95**	**3.16**	
HyTTec® Trifecta		116	121	117	Compromised trial
Hyola® Blazer TT		113	118	121	
PY520TC				120	
Hyola® Defender CT				123	
RGT Baseline® TT			107	120	
SF Dynatron TT	113	108	110	116	
HyTTec® Trophy	107	107	118	111	
InVigor® T 6010	114	116	100	114	
RGT Capacity TT	116	112	103	110	
InVigor® T 4511			110	106	
Sowing date	**5 May**	**21 Apr**	**6 May**	**2 May**	**2 May**
Rainfall J–M (mm)	**5**	**158**	**112**	**121**	**91**
Rainfall A–O (mm)	**194**	**305**	**264**	**479**	**388**

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

Table 12: Yarrawonga med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**1.50**	**2.94**	**2.50**	**2.40**	**2.16**
HyTTec® Trifecta	117	116	111	119	111
Hyola® Blazer TT		113	107	125	107
InVigor® T 6010	116	103	111	120	117
RGT Baseline® TT			109	126	112
RGT Capacity TT	117	105	106	114	109
PY520TC			104	123	103
SF Dynatron TT	113	108	103	119	103
Hyola® Defender CT				127	101
HyTTec® Trophy	110	113	104	111	101
InVigor® T 4511			104	107	104
Sowing date	**7 May**	**28 Apr**	**3 May**	**3 May**	**4 May**
Rainfall J–M (mm)	**24**	**299**	**286**	**272**	**66**
Rainfall A–O (mm)	**198**	**462**	**252**	**627**	**315**

Special thanks to 2023 trial cooperator, Inchbold Farming.
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 13: 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 13: 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 13: Canola disease guide – 2024 autumn blackleg ratings and resistance groups (continued).

Variety	2024 Blackleg rating Bare	2024 Blackleg rating InVigor® 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 – Northern Victoria

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

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

Table 1: Dookie faba bean.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		**4.03**	**5.22**	**3.67**	**3.39**
PBA Samira(Ф)		100	102	106	98
PBA Amberley(Ф)		101	100	103	99
PBA Zahra(Ф)		94	102	101	105
PBA Marne(Ф)		94	106	97	88
Fiesta VF	No trial	101	98	93	92
Farah(Ф)		100	97	90	94
PBA Rana(Ф)			86	89	82
PBA Bendoc(Ф)*		95	90	75	108
Nura(Ф)		100	86	70	99
Sowing date		**15 May**	**14 May**	**16 May**	**16 May**
Rainfall J–M (mm)		**123**	**111**	**203**	**91**
Rainfall A–O (mm)		**408**	**366**	**533**	**388**

Special thanks to 2023 trial cooperator.

* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

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

Faba bean variety disease ratings – Victoria

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

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

Table 2: Faba bean disease guide for 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[Φ]	MS	S	S	MS	VS
FBA Ayla[Φ]		S	S	MRMS	MR
Fiesta VF	S	S	S	MS	VS
Nura[Φ]	MR (P)	S	MS	MS	VS
PBA Amberley[Φ]	MR	S	MRMS	MRMS	VS
PBA Bendoc[Φ]	MR	S	S	MRMS	VS
PBA Marne[Φ]	MS	S	MS (P)	MS	MRMS
PBA Nanu[Φ]		S	S	MRMS	MR
PBA Nasma[Φ]	S	S	S	MSS	MRMS
PBA Rana[Φ]	MRMS (P)	S	MS	MS	VS
PBA Samira[Φ]	MR (P)	S	MS	MRMS	S
PBA Warda[Φ]	S	S	S	MRMS	MRMS
PBA Zahra[Φ]	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.

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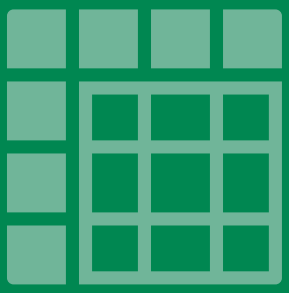

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