

NVT HARVEST REPORT



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Northern Victoria
Southern Region

**Title:**

NVT Harvest Report – Northern Victoria

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COVER: NVT barley and wheat, Lake Grace, WA in 2022.

PHOTO: Isabelle Rogers

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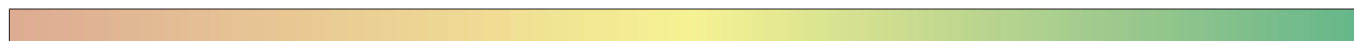
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grdc.com.au/harvestreports

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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
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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
grdc.com.au/nvt-crop-sowing-guides

INTRODUCTION

This **NVT Harvest Report** 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 2022 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 acknowledges that an ongoing project of this type would not be possible without the cooperation of growers prepared to contribute sites and who often assist with the management of trials on their property.

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 Statistics for the Australian Grains Industry (SAGI) program.

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 this **Northern Victoria** Harvest Report, 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](#).

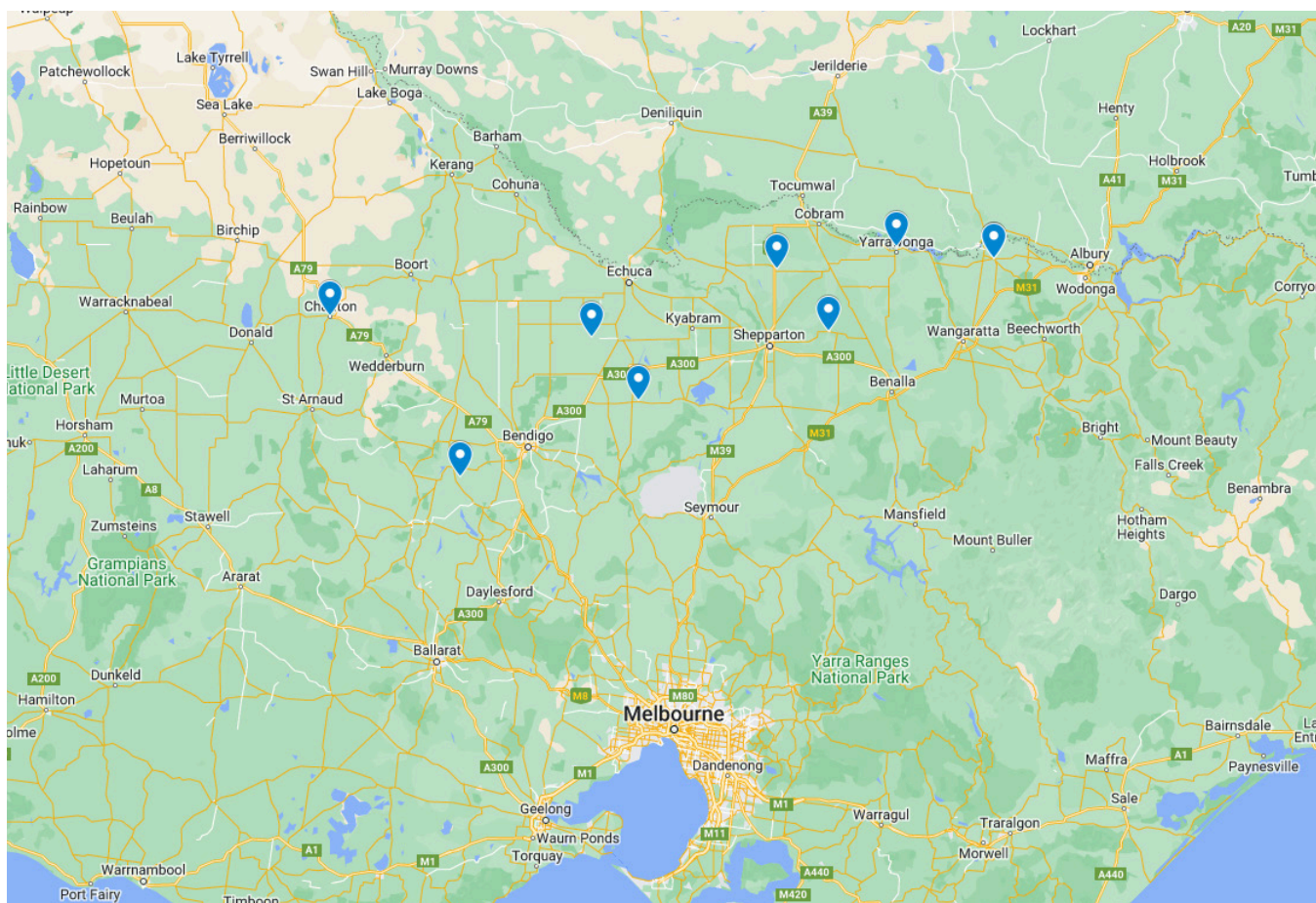
Trials listed as compromised are not suitable for making variety decisions. Results can be found in the [Quarantined trial reports](#).

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

NVT SITE LOCATIONS – Northern Victoria

Figure 1: Locality of NVT trial sites in Northern Victoria from 2018 to 2022.

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.

Variety	Variety owner	Grain classification	End point royalty* (\$)	Comments supplied by variety owner
Brumby [Ⓛ]	InterGrain	Milling	3.50	Mid-maturing, with a slightly later time of flowering than Scepter [Ⓛ] , although earlier than RockStar [Ⓛ] . Well-suited to May sowing.
Kingston [Ⓛ]	BASF Australia	Milling	3.55	Exhibits outstanding lodging resistance with a plant type that produces low residue to manage the following year.
LRPB Anvil [Ⓛ]	LongReach Plant Breeders Pty Ltd	Milling	4.25	Clearfield [®] Plus wheat with two-gene tolerance to label rates of Intervix [®] herbicide with quick maturity and bold early growth. Fast grain fill with large grain, suited to low to medium-rainfall areas. Bred by Grains Innovation Australia, developed by LongReach Plant Breeders and marketed by Pacific Seeds.
LRPB Scotch [Ⓛ]	LongReach Plant Breeders Pty Ltd	Milling	None provided.	Mid-slow spring maturing suited for high-yielding soft wheat production systems. Medium-short height with good straw strength well-suited for irrigated production.
Mowhawk [Ⓛ]	LongReach Plant Breeders Pty Ltd	Milling	4.00	A quick winter variety with similar growth habit and maturity to Longsword [Ⓛ] . Mowhawk [Ⓛ] has broad general adaption and is ideally suited to higher-production areas and early break scenarios. Mowhawk [Ⓛ] is quicker to heading and higher-yielding than the current benchmark winter variety, Illabo [Ⓛ] .
Reilly [Ⓛ]	BASF Australia	Milling	3.55	Shows yield stability in tough conditions. Provides new genetics for Australian growers.
RGT Waugh [Ⓛ]	RAGT	Feed	None provided.	An awned, white-grained winter wheat. Mid-slow maturing variety for medium to high-rainfall zones and irrigation. Suitable for dual-purpose applications when early sowing is possible. Excellent standability.
Stockade [Ⓛ]	LongReach Plant Breeders Pty Ltd	Milling	None provided.	Very slow spring maturity similar to RGT Accroc [Ⓛ] . Suitable for high-rainfall zones of south-west Victoria, south-east South Australia and Tasmania as main target area but will have relevance to north-east Victoria and south-east slopes. Growth habit with high production canopy with steady biomass accumulation over season based on its slower maturity. Potential variety replacement for RGT Accroc [Ⓛ] and LRPB Beaufort [Ⓛ] feed wheats.
Willaura [Ⓛ]	Australian Grain Technologies	Milling	3.50	A slow to very slow spring maturity type with a compact canopy.

* EPR amount is ex-GST, [Ⓛ] denotes Plant Breeder's Rights apply.

WHEAT

BARLEY

OAT

CANOLA

FABA BEAN

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

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	2018	2019	2020	2021	2022
Mean yield (t/ha)		4.88	3.77	4.23	6.00
RGT Zanzibar	No trial		96	105	136
Ballista ^{db}		113	111	107	107
RockStar ^{db}		116	111	109	101
Sunmaster ^{db}			102	106	116
Calibre ^{db}			116	109	95
Brumby ^{db}				108	102
Reilly ^{db}		107	111	106	108
Beckom ^{db}		109	108	107	106
Kingston ^{db}		111	110	107	103
Scepter ^{db}		116	109	107	99
IMI-TOLERANT					
Sunblade CL Plus ^{db}		110	103	105	111
LRPB Anvil ^{db}				102	84
Razor CL Plus ^{db}		110	99	98	91
Sowing date		22 May	19 May	19 May	18 May
Rainfall J–M (mm)		36	101	117	59
Rainfall A–O (mm)		257	293	263	464

Special thanks to 2022 trial cooperator, Jon Whykes.
Learn more via the [NVT Long Term Yield Reporter](#).

Table 2: Diggora main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		2.22	4.74	5.61	6.38
Ballista ^{db}	Compromised trial	121	108	109	110
RockStar ^{db}		122	111	114	102
RGT Zanzibar		78	95	109	132
LRPB Scout ^{db}		107	106	110	109
Reilly ^{db}		107	106	109	108
Calibre ^{db}			113	106	99
Brumby ^{db}				106	104
Kingston ^{db}		110	108	108	104
Sunmaster ^{db}			103	106	114
Scepter ^{db}			118	109	106
IMI-TOLERANT					
Sunblade CL Plus ^{db}		101	105	108	108
LRPB Anvil ^{db}				99	89
Valiant ^{db} CL Plus			98	102	103
Sowing date	21 May	17 May	19 May	21 May	24 May
Rainfall J–M (mm)	44	35	138	127	84
Rainfall A–O (mm)	190	200	320	390	551

Special thanks to 2022 trial cooperator, Anthony Lees.
Learn more via the [NVT Long Term Yield Reporter](#).

Table 3: Dookie main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		2.88	5.81	7.01	7.30
RGT Zanzibar	Compromised trial	82	111	116	127
Sunmaster ^{db}			112	112	114
LRPB Scotch ^{db}				115	117
RockStar ^{db}		115	112	114	102
Beckom ^{db}		112	107	106	106
Vixen ^{db}		126	108	107	98
Scepter ^{db}		122	107	105	102
Ballista ^{db}		117	104	104	107
EG Jet ^{db}			105	109	112
Brumby ^{db}				103	103
IMI-TOLERANT					
Sunblade CL Plus ^{db}		108	112	112	103
Valiant ^{db} CL Plus			102	105	108
Sheriff CL Plus ^{db}		114	104	103	89
Sowing date	15 May	17 May	15 May	18 May	25 May
Rainfall J–M (mm)	50	50	123	111	203
Rainfall A–O (mm)	151	253	408	366	533

Special thanks to 2022 trial cooperator, Anthony Shields.
Learn more via the [NVT Long Term Yield Reporter](#).

Table 4: Numurkah main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		7.99	6.40	7.29	
RockStar ^{db}	<u>Compromised trial</u>	116	110	115	<u>Compromised trial</u>
Sunmaster ^{db}			111	115	
LRPB Scotch ^{db}				113	
RGT Zanzibar		108	110	113	
Vixen ^{db}		110	106	112	
Scepter ^{db}		110	107	110	
LRPB Cobra ^{db}		112	102	110	
Ballista ^{db}		108	108	108	
Beckom ^{db}		107	108	108	
Ascot ^{db}		111	104	107	
IMI-TOLERANT					
Sunblade CL Plus ^{db}		115	110	113	
Sheriff CL Plus ^{db}		107	100	106	
Valiant ^{db} CL Plus			100	104	
Sowing date	30 Apr	30 Apr	18 May	19 May	25 May
Rainfall J–M (mm)	40	39	158	151	133
Rainfall A–O (mm)	145	176	305	261	498
Irrigation A–O				70	

Special thanks to 2022 trial cooperator, Craig Reynolds.
Learn more via the [NVT Long Term Yield Reporter](#).

Table 5: Yarrowonga main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		3.74	4.80	5.92	5.29
RGT Zanzibar	Compromised trial	91	103	129	131
Sunmaster ^{db}			112	120	120
Brumby ^{db}				102	111
Cutlass ^{db}		97	109	112	109
EG Jet ^{db}			97	116	115
LRPB Scotch ^{db}				122	111
Calibre ^{db}			109	97	106
Kingston ^{db}		107	105	105	106
Scepter ^{db}		111	106	103	102
Ballista ^{db}		112	98	101	108
IMI-TOLERANT					
Sunblade CL Plus ^{db}		100	105	116	110
Valiant ^{db} CL Plus			98	107	95
Elmore CL Plus ^{db}		91	95	101	98
Sowing date	9 May	19 May	23 May	26 May	3 Jun
Rainfall J–M (mm)	47	24	299	286	272
Rainfall A–O (mm)	166	198	462	252	627

Special thanks to 2022 trial cooperator, Adam Inchbold.
Learn more via the [NVT Long Term Yield Reporter](#).

Table 7: Rutherglen early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	2.72	5.73	6.41	6.46	4.89
RGT Zanzibar	102	111	116	111	123
LRPB Beaufort ^{db}	101	111	113	117	117
RGT Cesario ^{db}			114	117	132
BigRed ^{db}				119	140
Willaura ^{db}				120	95
RGT Accroc ^{db}	80	98	111	116	131
Stockade ^{db}				116	113
RockStar ^{db}		115	105	104	89
RGT Calabro	80	91	107	110	125
Denison ^{db}		115	102	104	88
IMI-TOLERANT					
Valiant ^{db} CL Plus			103	107	96
Sheriff CL Plus ^{db}		109	97	95	80
Sowing date	1 May	30 Apr	23 Apr	2 May	22 Apr
Rainfall J–M (mm)	63	71	151	189	186
Rainfall A–O (mm)	206	216	403	304	555

Special thanks to 2022 trial cooperator, Ben Spence.
Learn more via the [NVT Long Term Yield Reporter](#).

Table 6: Numurkah early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			7.26	7.16	
BigRed ^{db}	No trial	No trial		114	Compromised trial
LRPB Beaufort ^{db}			120	114	
RGT Accroc ^{db}			120	111	
RGT Cesario ^{db}			119	112	
Stockade ^{db}				111	
Willaura ^{db}				110	
RGT Calabro			117	108	
RGT Zanzibar			113	111	
RGT Waugh ^{db}			115	106	
RockStar ^{db}			110	109	
IMI-TOLERANT					
Valiant ^{db} CL Plus			109	107	
Sheriff CL Plus ^{db}			95	99	
Sowing date			24 Apr	5 May	2 May
Rainfall J–M (mm)			158	151	133
Rainfall A–O (mm)			305	261	498

Special thanks to 2022 trial cooperator, Craig Reynolds.
Learn more via the [NVT Long Term Yield Reporter](#).

WHEAT

BARLEY

OAT

CANOLA

FABA BEAN

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 2021 and 2022 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 five NVT sites in northern Victoria in 2021.

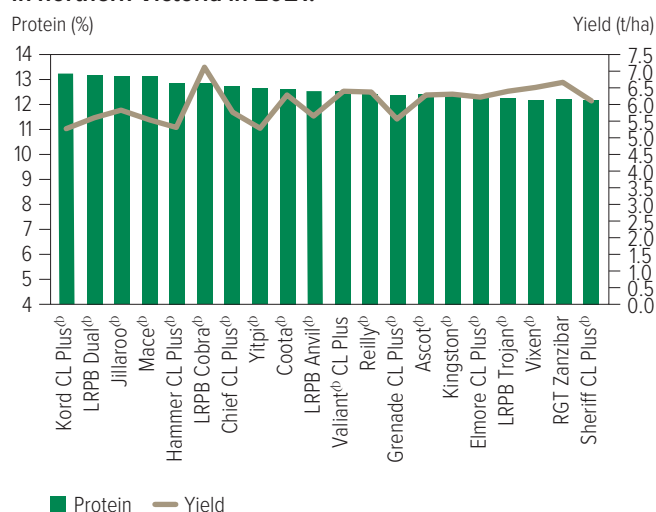


Figure 2: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from four NVT sites in northern Victoria in 2022.

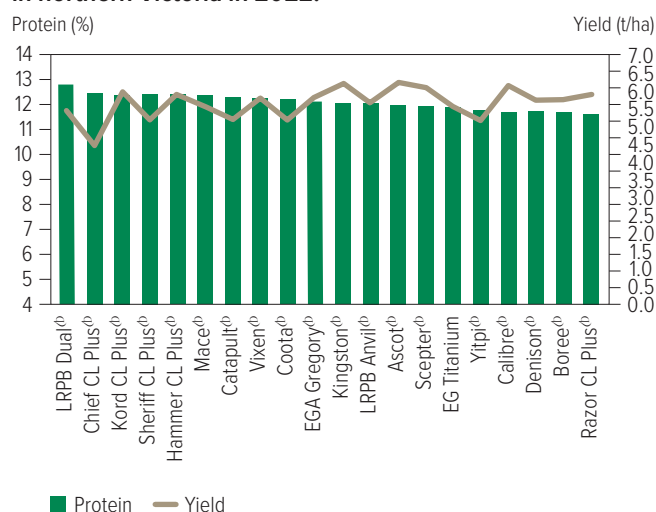


Figure 3: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from two NVT sites in northern Victoria in 2021.

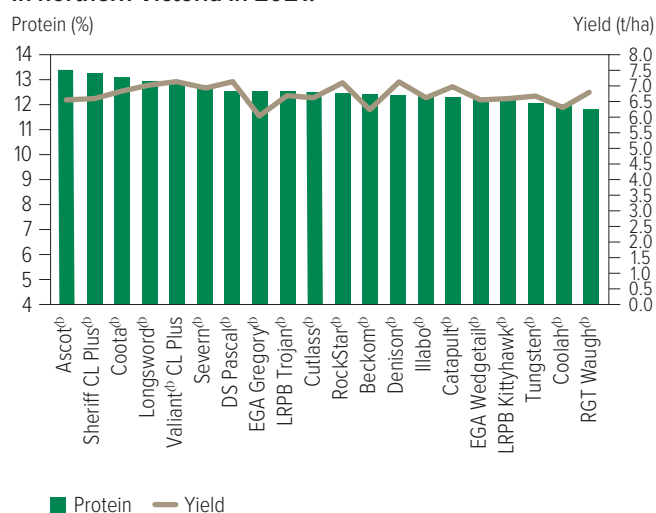
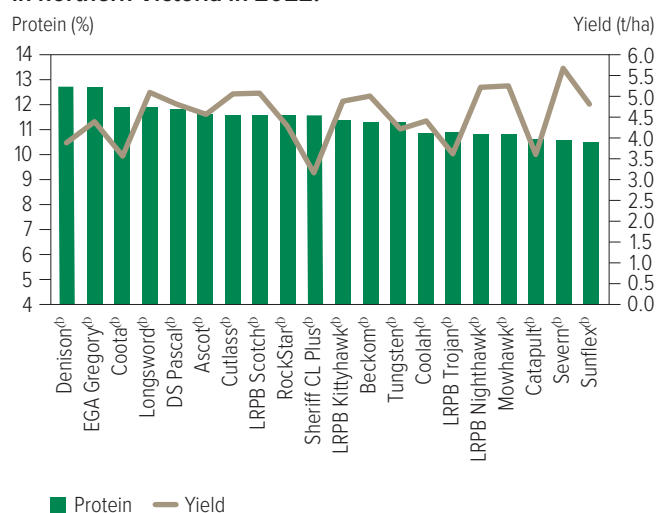


Figure 4: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from one NVT site in northern Victoria in 2022.



WHEAT

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Test weight comparisons

Figure 5: Test weight (kg/hL) comparisons for main season wheat varieties from five NVT sites in northern Victoria in 2021.

Test weight (kg/hL)

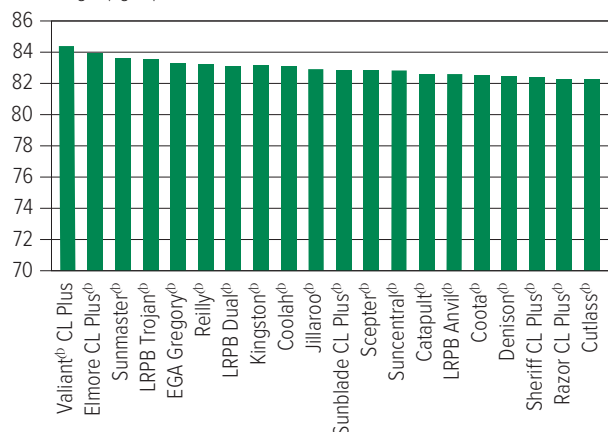


Figure 6: Test weight (kg/hL) comparisons for main season wheat varieties from four NVT sites in northern Victoria in 2022.

Test weight (kg/hL)

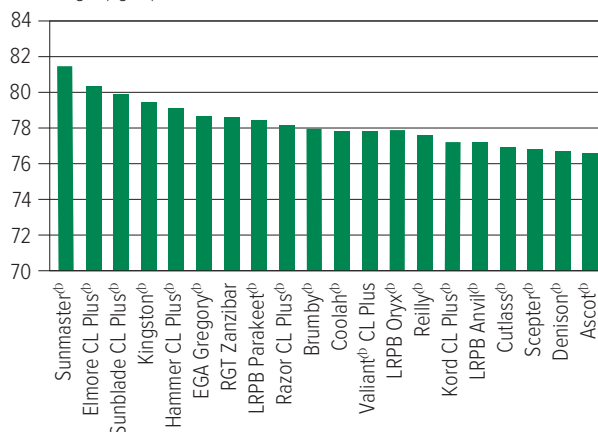


Figure 7: Test weight (kg/hL) comparisons for early season wheat varieties from two NVT sites in northern Victoria in 2021.

Test weight (kg/hL)

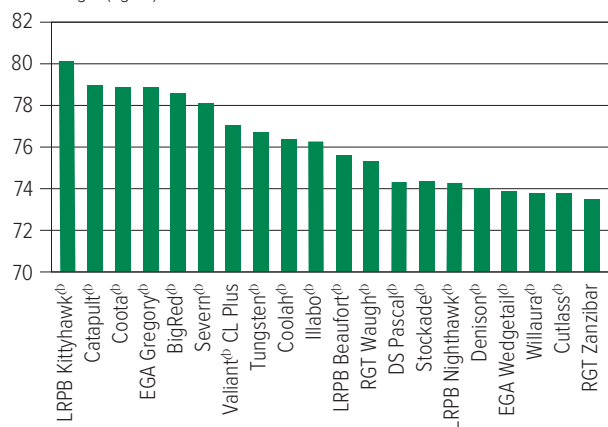
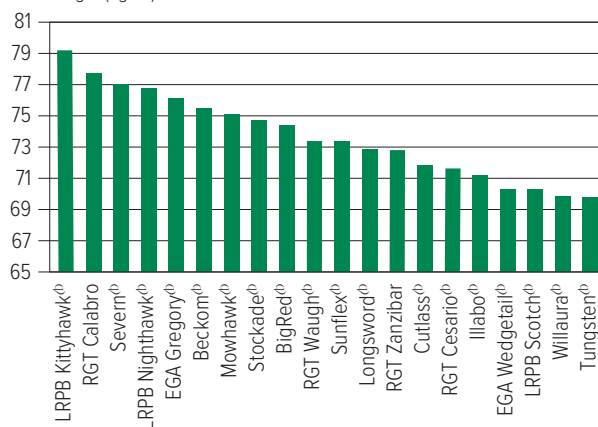


Figure 8: Test weight (kg/hL) comparisons for early season wheat varieties from one NVT site in northern Victoria in 2022.

Test weight (kg/hL)



WHEAT

BARLEY

OAT

CANOLA

FABA BEAN

Screenings comparisons

Figure 9: Screenings (<2.0mm) comparisons for main season wheat varieties from five NVT sites in northern Victoria in 2021.

Screenings (%<2.0mm)

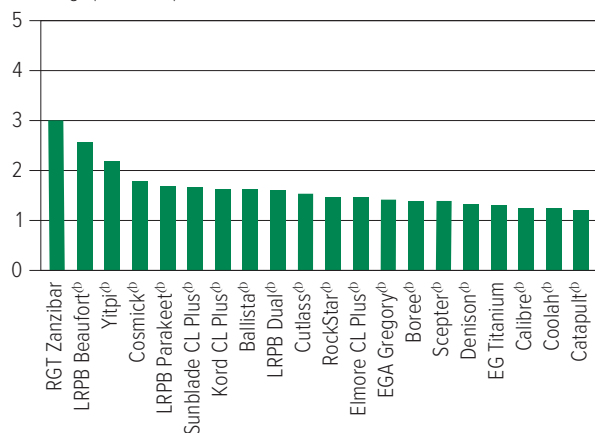


Figure 10: Screenings (<2.0mm) comparisons for main season wheat varieties from four NVT sites in northern Victoria in 2022.

Screenings (%<2.0mm)

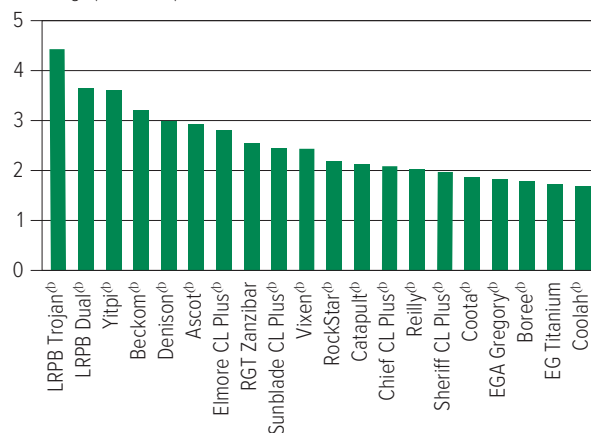


Figure 11: Screenings (<2.0mm) comparisons for early season wheat varieties from two NVT sites in northern Victoria in 2021.

Screenings (%<2.0mm)

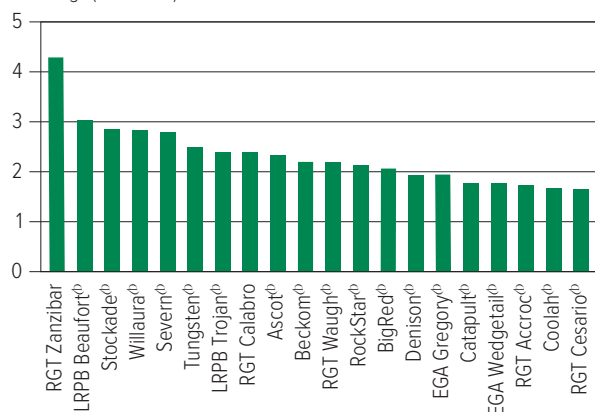
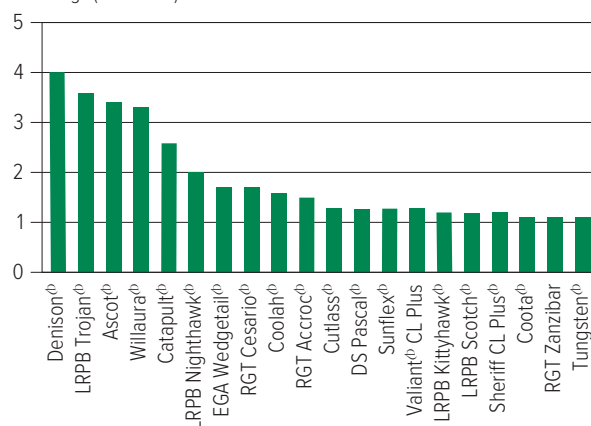


Figure 12: Screenings (<2.0mm) comparisons for early season wheat varieties from one NVT site in northern Victoria in 2022.

Screenings (%<2.0mm)



WHEAT

BARLEY

OAT

CANOLA

FABA BEAN

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 2023.

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	Stripe rust (east coast resistance)	Leaf rust	Yellow leaf spot	Septoria tritici blotch	Powdery mildew	CCN	RLN resistance (<i>Pratylenchus neglectus</i>)	RLN resistance (<i>Pratylenchus thornei</i>)	Crown rot	Black tip (Black point)
Anapurna	MSS	RMR	MS	MRMS	MRMS	RMR	MRMS	MS	S (P)	SVS	MSS
Ascot ^{db}	MRMS	MSS	RMR	MRMS	S	S	MR	S	S	S	S
Ballista ^{db}	MR	MSS	S	MS	SVS	SVS	MRMS	S	MRMS	S	MS
Beckom ^{db}	MRMS	MRMS	MSS	MSS	S	MSS	R	S	MSS	S	MRMS
BigRed ^{db}	S	RMR	MRMS	MR	MR	RMR	S	MS	MS	S (P)	MR (P)
Boree ^{db}	MR	SVS	S	MRMS	SVS	SVS	MSS	S	MSS	S	S
Brumby ^{db}	MR	MS	SVS	MRMS	S	R/S	MRMS	MRMS	MS	S	MS (P)
Calibre ^{db}	MR	S	S	MRMS	S	S	MRMS	S	MSS	S	MS (P)
Catapult ^{db}	MR	S	S	MRMS	MSS	S	R	S	MS	MSS	S
Chief CL Plus ^{db}	MR	SVS	MR	MRMS	S	SVS	MS	MRMS	MSS	MSS	MS
Coolah ^{db}	MR	MSS	RMR	MSS	MSS	S	S	S	MS	MSS	S
Coota ^{db}	RMR	S	MR	MSS	S	S	MR	MR	MS	MSS	MS
Cutlass ^{db}	R	MSS	RMR	MSS	MSS	MSS	MR	MSS	MSS	S	MS
Denison ^{db}	MS	S	S	MRMS	MSS	S	MS	S	S	MSS	MS
DS Bennett ^{db}	MS	S	SVS	MRMS	MSS	R	S	S	S	VS	MSS
DS Pascal ^{db}	MSS	MRMS	MS	MS	MSS	RMR	S	S	S	S	MS
EG Jet ^{db}	S	MRMS	S	MRMS	MSS	SVS	MRMS	S	S	S	MS
EG Titanium	MS	MR	MS	MSS	MSS	S	R	MSS	MSS	MSS	MSS
EGA Gregory ^{db}	MR	MS	RMR#	S	MSS	RMR	S	S	MSS	S	MSS
EGA Wedgetail ^{db}	MRMS	MS	MSS	MSS	MSS	MRMS	S	S	VS	S	MS
Emu Rock ^{db}	MS	SVS	SVS	MS	S	MSS	S	MSS	S	MSS	MSS
Grenade CL Plus ^{db}	MR	MRMS	SVS	S	S	MSS	R	MSS	S	S	MSS
Hammer CL Plus ^{db}	MR	MS	S	MRMS	MSS	S	MRMS	MSS	S	MSS	MRMS
Illabo ^{db}	MRMS	MRMS	S	MS	MSS	R	MRMS	MSS	MSS	S	MRMS
Jiilaroo ^{db}	MS	MSS	S	MRMS	S	SVS	MS	S	MS (P)	S	MSS (P)
Kingston ^{db}	S	MSS	S	MSS	S	S	R	S	MRMS	S	S
Longsword ^{db}	MR	R/S	MR#	MRMS	MS	S	MRMS	MRMS	MRMS	MSS	MS
LRPB Anvil ^{db}	MR	S	SVS	MSS	VS	VS	MRMS	MSS	S	MSS	S (P)
LRPB Bale ^{db}	MRMS	MRMS	MSS	SVS	MSS	MSS	R	S	S	S	MSS (P)
LRPB Beaufort ^{db}	SVS	RMR	MSS	MRMS	S	RMR	MS	MS	MSS	S	MRMS
LRPB Cobra ^{db}	MR	S	MR#	MRMS	MSS	MSS	MS	MSS	MSS	S	MSS
LRPB Dual ^{db}	MRMS	MS	MSS	S	MSS	S	R	MSS	MSS	S	S (P)
LRPB Kittyhawk ^{db}	MRMS (S)	MR	MR	MRMS	MRMS	MS	S	S	S	SVS	MRMS
LRPB Nighthawk ^{db}	RMR	MRMS	MSS	MS	MS	SVS	MS	MSS	MS	MSS	MS
LRPB Oryx ^{db}	MR	MS	RMR#	MSS	SVS		S	MSS	MSS	MSS	MS
LRPB Parakeet ^{db}	MR	MR	R	MSS	SVS	SVS	MS	MRMS	S	MSS	MS
LRPB Scotch ^{db}	MSS	MRMS (P)	MR (P)	MRMS	S (P)	MR	MS	MS	S	S	MS (P)
LRPB Trojan ^{db}	MRMS	S	MR#	MSS	S	S	MS	MSS	MSS	MS	MS
Mace ^{db}	MRMS	SVS	S	MRMS	SVS	MSS	MRMS	MS	MS	S	MRMS
Manning ^{db}	MR	RMR	MSS	MRMS	MRMS/S	MS	S	MSS	S	VS	S
Mowhawk ^{db}	RMR (P)	MRMS (P)	MR (P)	MRMS (P)	MSS (P)	MR					

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

Variety	Stem rust	Stripe rust (east coast resistance)	Leaf rust	Yellow leaf spot	Septoria tritici blotch	Powdery mildew	CCN	RLN resistance (<i>Pratylenchus neglectus</i>)	RLN resistance (<i>Pratylenchus thornei</i>)	Crown rot	Black tip (Black point)
Razor CL Plus [Ⓛ]	MRMS	MS	S	MSS	SVS	S	MR	S	MS	S	MS
Reilly [Ⓛ]	MR	MS	MSS	S	S	S	R	MS	MSS	S	MSS (P)
RGT Accroc [Ⓛ]	MS	RMR	SVS	MRMS	MS	MSS	S	S	MSS	SVS	MRMS
RGT Calabro	MS	RMR	MSS	MR	MRMS	RMR	S	S	MS	SVS	MS
RGT Cesario [Ⓛ]	R	RMR	RMR	MR	MRMS	RMR	MSS (P)	MRMS	MSS	VS	
RGT Ivory	SVS	MR	MR#	MR	MRMS	RMR	S	MSS	MRMS	SVS	MS
RGT Waugh [Ⓛ]	MS	RMR	S	MRMS	MRMS	R	MS	MS	MSS	S	MRMS (P)
RGT Zanzibar	VS	MRMS	SVS	MS	MSS	MR	MSS	S	MS (P)	S	MRMS
RockStar [Ⓛ]	MRMS	S	S	MRMS	S	SVS	MSS	MRMS	MS	S	MSS
Scepter [Ⓛ]	MRMS	MSS	MSS	MRMS	S	SVS	MRMS	S	MSS	MSS	MS
Severn [Ⓛ]	MS	RMR	MRMS	MRMS	MSS	RMR	MSS (P)	S	MRMS	S	MR
Sheriff CL Plus [Ⓛ]	MS	S	SVS	MRMS	S	SVS	MS	MRMS	MRMS	S	MS
SQP Revenue [Ⓛ]	RMR	RMR	VS	MRMS	MSS	R	S	S	S	S	MS
Stockade [Ⓛ]	MS	MR	MR (P)	MRMS	MS	SVS	MRMS	S	MSS	S	MRMS (P)
Sunblade CL Plus [Ⓛ]	MS	MRMS	MSS	MSS	S	SVS	MSS	MSS	MRMS	S	MRMS
Sunflex [Ⓛ]	MR	MRMS	RMR/S	MS	SVS	S	MS	S	MSS	MSS	MSS
Sunmaster [Ⓛ]	MS	MRMS	RMR#	MSS	S	S	MSS	MRMS	MS	S	MR
Valiant [Ⓛ] CL Plus	MR	MSS	S	MRMS	MSS	VS	MSS (P)	S	S (P)	S	MS (P)
Vixen [Ⓛ]	MRMS	SVS	SVS	MRMS	S	SVS	MSS	MRMS	MS	S	MSS
Willaura [Ⓛ]	MR	S	MRMS	MS	S	S	MS	MS	MS	S	MRMS (P)
Yitpi [Ⓛ]	S	MS	S	SVS	S	MS	MR	MSS	S	S	MS
DURUM											
Bitalli [Ⓛ]	RMR	MRMS	MR	MRMS	MSS	S	MSS	MSS	RMR	SVS	MS
Caparoi [Ⓛ]	MR	MS	RMR	MR	MRMS/S	MSS	MRMS (P)	MS	MR	VS	MSS
DBA Bindaroi [Ⓛ]	MR	MS	MR	MRMS	MS	MSS (P)	MS	MRMS	MR	SVS	MRMS
DBA Mataroi [Ⓛ]	MR	MS	MR	MRMS	MSS	S	MRMS	MS	RMR	SVS	MS
DBA Spes [Ⓛ]	R	MS	RMR	MRMS	S	S	MS	MRMS	RMR	VS	MS
DBA Vittaroi [Ⓛ]	MR	MS	RMR	MRMS	MSS	MRMS	S	MS	MR	SVS	MSS
DBA-Artemis [Ⓛ]	MR	MRMS	RMR	MRMS	MRMS/S	SVS	MS	MS	MR	VS	MS
Patron [Ⓛ]	RMR	MRMS	MR (P)	MRMS	MRMS	SVS	S	MS	MR	SVS (P)	S (P)
Westcourt [Ⓛ]	RMR	MR	RMR	MRMS	S	S	MSS	MS	MR	VS	MSS

Learn more via the [NVT Disease Ratings](#).

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant, (P) = provisional rating, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes, () show outlier.

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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.

Variety	Variety owner	Grain classification [#]	End point royalty* (\$)	Comments supplied by variety owner
Combat [Ⓢ]	InterGrain	Feed	3.50	Mid-maturity suited to all regions. Semi-prostrate growth habit that will provide more weed competition than Rosalind [Ⓢ] . A potential variety replacement for Rosalind [Ⓢ] with a more competitive plant type.
Fandaga [Ⓢ]	AGF Seeds	Feed	None provided.	Slower maturity than RGT Planet [Ⓢ] .
Titan AX [Ⓢ]	Australian Grain Technologies	Under malt evaluation	4.55	The world's first CoAXium [®] barley variety. Mid-season maturity, slightly later than Compass [Ⓢ] , similar to RGT Planet [Ⓢ] . Agronomically similar to Compass [Ⓢ] .
Zena [Ⓢ] CL	InterGrain	Under malt evaluation	4.25	Zena [Ⓢ] CL is an imidazolinone-tolerant barley variety best-suited to medium-high rainfall environments.

* EPR amount is ex-GST, [Ⓢ] denotes Plant Breeder's Rights apply, [#] barley malting quality accreditation correct at time of download (10 March 2023).

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Refer to the latest *Crop Sowing Guide* for further information at grdc.com.au/nvt-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	2018	2019	2020	2021	2022
Mean yield (t/ha)	3.80		4.34	4.46	7.29
Combat [Ⓛ]		Compromised trial		116	114
Cyclops [Ⓛ]			111	111	106
Rosalind [Ⓛ]	107		105	108	107
Minotaur [Ⓛ]			108	106	108
Leabrook [Ⓛ]	116		103	109	101
Beast [Ⓛ]			103	109	99
RGT Planet [Ⓛ]	93		104	105	113
Fathom [Ⓛ]	113		102	107	99
Compass [Ⓛ]	118		100	107	96
Yeti [Ⓛ]			102	102	98
HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE)					
Titan AX [Ⓛ]					100
Zena [Ⓛ] CL				108	109
Commodus [Ⓛ] CL			99	105	95
Maximus [Ⓛ] CL	109		103	100	96
Sowing date	18 May	22 May	19 May	19 May	18 May
Rainfall J–M (mm)	22	36	101	117	59
Rainfall A–O (mm)	180	257	293	263	464

Special thanks to 2022 trial cooperator, Jon Whykes.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 2: Colbinabbin main season barley.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	2.01	3.93		5.90	6.37
Combat ^{db}			Trial failed	116	110
RGT Planet ^{db}	98	106		118	117
Rosalind ^{db}	114	109		106	106
Minotaur ^{db}				105	104
Cyclops ^{db}				101	99
Bottler ^{db}	91	97		105	107
Fathom ^{db}	118	106		97	97
Buff ^{db}	113	104		100	97
La Trobe ^{db}	120	106		96	95
Leabrook ^{db}	110	106		96	97
HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE)					
Zena ^{db} CL				112	115
Titan AX ^{db}					93
Spartacus CL ^{db}	114	102		91	92
Maximus ^{db} CL	112	103		90	92
Sowing date	22 May	25 May	18 May	20 May	23 May
Rainfall J–M (mm)	37	27	162	119	89
Rainfall A–O (mm)	200	230	389	306	580

Special thanks to 2022 trial cooperator, Darryl Rathjen.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 3: Yarrawonga main season barley.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	4.48	5.60	5.05	5.31	5.66
RGT Planet ^{db}	107	112	105	103	113
Rosalind ^{db}	106	107	109	106	110
Fandaga ^{db}				100	110
Minotaur ^{db}			110	109	108
Cyclops ^{db}			106	105	103
Combat ^{db}				96	103
Yeti ^{db}		96	109	108	103
Bottler ^{db}	102	102	102	103	105
Laperouse ^{db}	95	95	105	106	98
Leabrook ^{db}	103	103	98	98	97
HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE)					
Zena ^{db} CL				103	113
Maximus ^{db} CL	98	94	109	107	102
Spartacus CL ^{db}	99	95	105	103	99
Titan AX ^{db}					93
Sowing date	9 May	19 May	23 May	26 May	3 Jun
Rainfall J–M (mm)	47	24	299	286	272
Rainfall A–O (mm)	166	198	462	252	627

Special thanks to 2022 trial cooperator, Adam Inchbold.
Learn more via the [NVT Long Term Yield Reporter](#)

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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 2021 and 2022 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 2021.

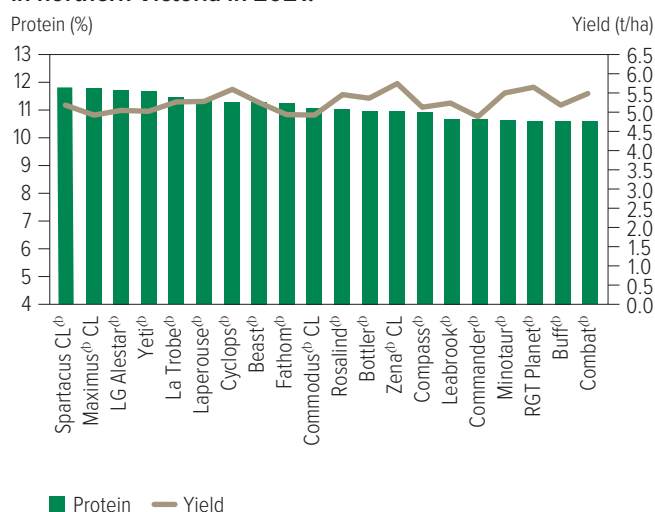
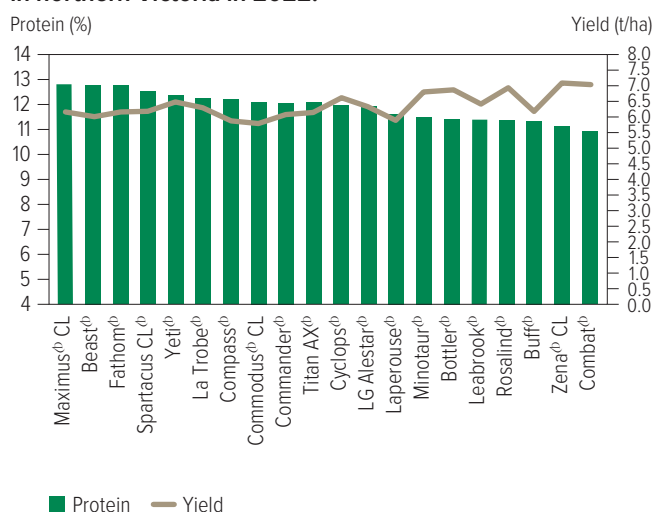


Figure 2: Protein (%) and yield (t/ha) comparisons for main season barley varieties from three NVT sites in northern Victoria in 2022.



Test weight comparisons

Figure 3: Test weight (kg/hL) comparisons for main season barley varieties from three NVT sites in northern Victoria in 2021.

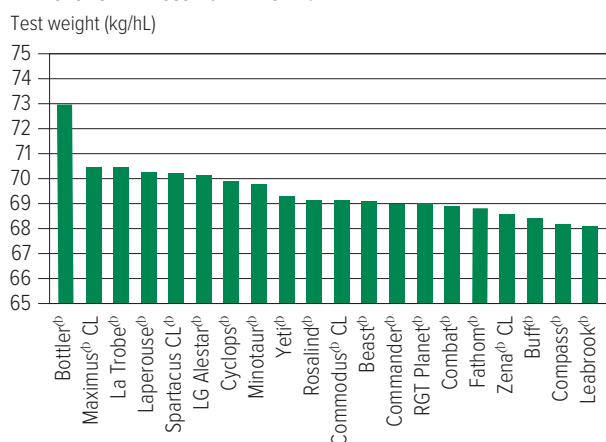
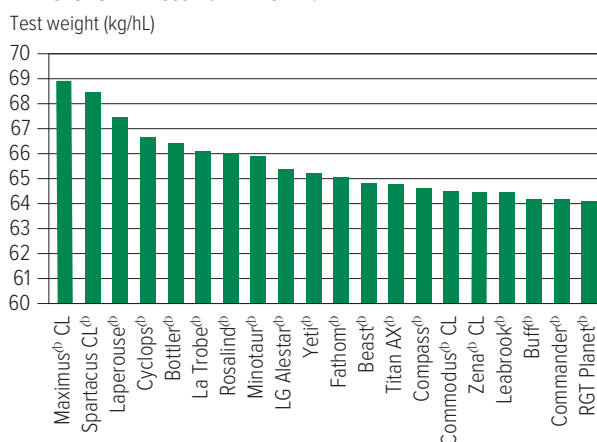


Figure 4: Test weight (kg/hL) comparisons for main season barley varieties from three NVT sites in northern Victoria in 2022.



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Screenings comparisons

Figure 5: Screenings (<2.2mm) comparisons for main season barley varieties from three NVT sites in northern Victoria in 2021.

Screenings (%<2.2mm)

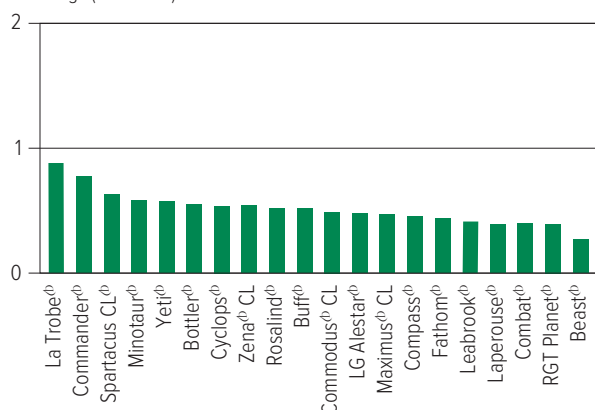
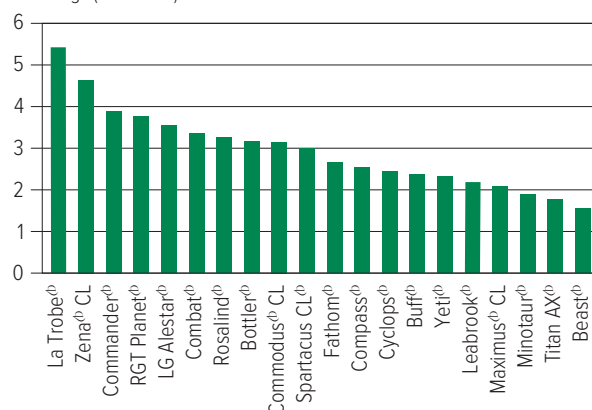


Figure 6: Screenings (<2.2mm) comparisons for main season barley varieties from three NVT sites in northern Victoria in 2022.

Screenings (%<2.2mm)



Retention comparisons

Figure 7: Retention (>2.5mm) comparisons for main season barley varieties from three NVT sites in northern Victoria in 2021.

Retention (%>2.5mm)

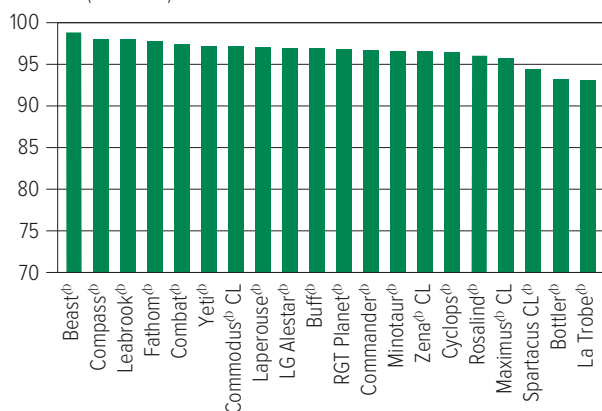
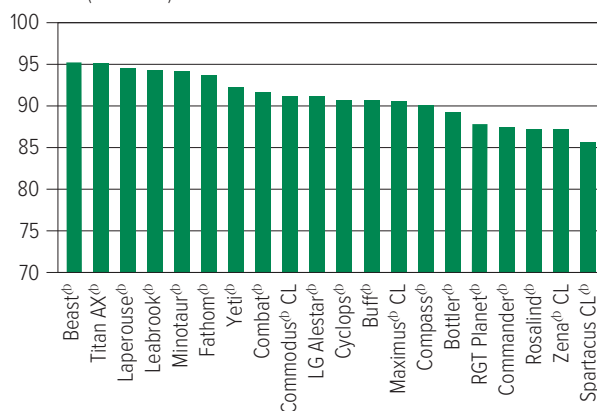


Figure 8: Retention (>2.5mm) comparisons for main season barley varieties from three NVT sites in northern Victoria in 2022.

Retention (%>2.5mm)



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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 2023.

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	Powdery mildew	Leaf rust	CCN	RLN resistance (<i>Pratylenchus neglectus</i>)	RLN resistance (<i>Pratylenchus thornei</i>)	Ramularia
Banks ^{db}	SVS	S	MR	MRMS	SVS	S	MS	MR	VS (P)
Beast ^{db}	SVS	MS	MR#	S	S	MR	MRMS	MRMS	SVS (P)
Bottler ^{db}	SVS	MSS	MR	RMR	MR		MS	RMR	SVS (P)
Buff ^{db}	SVS	MSS	MS	S	SVS		MRMS	MS	SVS (P)
Combat ^{db}	S	RMR	MR (P)	MS	S	MRMS	MR	MS	SVS (P)
Commander ^{db}	SVS	MSS	MS	MSS	SVS	R	MRMS	MRMS	SVS (P)
Commodus ^{db} CL	SVS	MSS	MRMS	MS	S	R	MRMS	MRMS	SVS (P)
Compass ^{db}	SVS	MS	MS	MSS	SVS	R	MRMS	MR	SVS (P)
Cyclops ^{db}	S	MS	MRMS	S	SVS	S	MRMS	MRMS	SVS (P)
Fandaga ^{db}	SVS	S	MRMS	R	MSS	R	MR	MR	VS (P)
Fathom ^{db}	S	RMR	MS	MRMS	MS	R	MRMS	MR	SVS (P)
Kiwi ^{db}	SVS	MSS	MRMS	RMR	MS	S	MRMS	RMR	VS (P)
La Trobe ^{db}	SVS	S	MR	MSS	S	R	MRMS	MRMS	SVS (P)
Laperouse ^{db}	VS	MRMS	MR	MSS	SVS	S	MR	MR	VS (P)
Leabrook ^{db}	SVS	MS	MR	S	SVS	RMR	MRMS	RMR	VS (P)
LG Alestar ^{db}	SVS	S	S	MR	MRMS	R ^a (P)	MR	MR	SVS (P)
Maximus ^{db} CL	SVS	MS	MRMS	MS	S	R	MRMS	MR	VS (P)
Minotaur ^{db}	VS	S	MRMS	S	SVS	R	MRMS	MR	SVS (P)
RGT Planet ^{db}	SVS	SVS	SVS	RMR	MR	R (P)	MRMS	MR	VS (P)
Rosalind ^{db}	S	S	MR	MSS	MRMS	R	MRMS	MR	VS (P)
SakuraStar	SVS	MS	MS	MSS	S	R	MR	MR	VS (P)
Scope CL ^{db}	SVS	MSS	MR	MRMS	S	S	MRMS	MRMS	SVS (P)
Spartacus CL ^{db}	SVS	S	S	MSS	S	R	MRMS	MRMS	VS (P)
Titan AX ^{db}	VS	MS	MS	MS	S	MR (P)	R	MR	VS (P)
Topstart	SVS	S	MS	RMR	MRMS	S	RMR	RMR	VS (P)
Urambie	MS	S	MR	MS	S		MRMS	MR	VS (P)
Westminster ^{db}	SVS	S	MRMS	RMR	MR		MRMS	MS	VS (P)
Yeti ^{db}	VS	MSS	MR	MSS	S	RMR	MR	MR	VS (P)
Zena ^{db} CL	S (P)	S	S	R	MSS	R	MRMS	MR	VS (P)

Learn more via the [NVT Disease Ratings](#).

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

warning, may be more susceptible to alternate pathotypes, ^ line contains a few susceptible off types.

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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.

Variety	Variety owner	Grain classification	End point royalty* (\$)	Comments supplied by variety owner
Koala ^{db}	National Oat Breeding Program	Grain	None provided.	High-yielding, tall dwarf variety with similar height to Bannister ^{db} and taller than Mitika ^{db} , Bilby ^{db} or Kowari ^{db} . Koala ^{db} has a mid-season maturity that can be seven days later to head compared with Bannister ^{db} and Williams ^{db} . Early vigour is similar to Bannister ^{db} and slightly slower than Bilby ^{db} and Yallara ^{db} . Commercialised by Seednet.

* EPR amount is ex-GST, ^{db} denotes Plant Breeder's Rights apply.

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Refer to the latest *Crop Sowing Guide* for further information at grdc.com.au/nvt-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	2018	2019	2020	2021	2022
Mean yield (t/ha)	0.38	2.35	5.06	5.61	4.35
Koala ^{db}	78	100	108	120	103
Bannister ^{db}	109	100	105	112	104
Echidna	67	85	103	108	103
Bilby ^{db}	107	97	100	100	103
Williams ^{db}	124	78	103	100	99
Kowari ^{db}	97	96	97	92	100
Mitika ^{db}	90	90	96	87	96
Yallara ^{db}	107	98	94	77	82
Durack ^{db}	93	93	92	74	88
Koorabup ^{db}	96	87	95	76	80
Sowing date	21 May	17 May	19 May	21 May	24 May
Rainfall J–M (mm)	44	35	138	127	84
Rainfall A–O (mm)	190	200	320	390	551

Special thanks to 2022 trial cooperator, Anthony Lees.
Learn more via the [NVT Long Term Yield Reporter](#).

Table 2: Dookie oat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	1.89	3.05	4.27	5.39	4.01
Bannister ^{db}	109	94	105	117	107
Koala ^{db}	104	79	107	126	96
Bilby ^{db}	102	105	104	105	105
Echidna	98	84	109	114	100
Williams ^{db}	121	85	95	94	127
Kowari ^{db}	96	105	99	92	99
Mitika ^{db}	95	100	94	81	100
Durack ^{db}	91	102	82	55	95
Yallara ^{db}	99	93	73	48	98
Koorabup ^{db}	100	83	71	44	101
Sowing date	15 May	17 May	15 May	19 May	17 May
Rainfall J–M (mm)	50	50	123	111	203
Rainfall A–O (mm)	151	253	408	366	533

Special thanks to 2022 trial cooperator, Alan Shields.
Learn more via the [NVT Long Term Yield Reporter](#).

Table 3: Eastville oat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	0.89	1.86	4.30	6.55	6.28
Koala ^{db}	90	103	111	119	102
Bannister ^{db}	100	109	108	111	103
Williams ^{db}	94	109	105	105	107
Echidna	91	95	103	105	108
Bilby ^{db}	104	103	100	98	103
Kowari ^{db}	102	96	95	92	101
Mitika ^{db}	97	91	93	89	100
Yallara ^{db}	90	89	91	89	87
Koorabup ^{db}	83	85	91	89	89
Durack ^{db}	95	84	86	81	93
Sowing date	22 May	20 May	18 May	20 May	23 May
Rainfall J–M (mm)	51	34	88	165	212
Rainfall A–O (mm)	157	363	336	264	602

Special thanks to 2022 trial cooperator, Doug Curnow.
Learn more via the [NVT Long Term Yield Reporter](#).

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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 2023.

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	Stem rust	Leaf rust (crown rust)	CCN	Barley yellow dwarf virus (BYDV)	Septoria blotch	Bacterial blight	Red leather leaf
Bannister ^{db}	S	MSS	MR	MS	MSS	S	MSS
Bilby ^{db}	S	MS	S	S	S	SVS	MS
Durack ^{db}	S	MSS	MRMS	S	S	S	SVS
Echidna	MS	SVS	MS	MSS	SVS	S	S
Koala ^{db}	MSS	MSS	R	MSS	MSS	S	S
Koorabup ^{db}	S	MSS	MRMS	MSS	MRMS#	SVS	SVS
Kowari ^{db}	S	S	S	S	S	S	S
Mitika ^{db}	S	MSS	VS	SVS	SVS	S	SVS
Mulgara ^{db}	MRMS	MR	R	MS	S/MRMS	MSS	SVS
Possum	SVS	MSS	MSS	S	S	SVS	SVS
Tungoo ^{db}	MS	MR	MR	MSS	MRMS#	S	MRMS
Williams ^{db}	S	MRMS	S	MSS	MSS	MSS	MS
Wintaroo ^{db}	MSS	MSS	R	MS	MSS	S	S
Yallara ^{db}	MSS	S	R	MSS	MSS	S	SVS

Learn more via the [NVT Disease Ratings](#).

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes.

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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.

Variety	Variety owner	End point royalty* (\$)	Comments supplied by variety owner
DG Hotham TF	Nutrien Ag Solutions Ltd	-	Mid-maturing glyphosate tolerant TruFlex® hybrid. Medium to tall plant height. Suited to medium to high-rainfall zones.
DG Torrens TT [Ⓢ]	Nutrien Ag Solutions Ltd	5.00	Early-mid maturing, open-pollinated, triazine-tolerant variety. Short-medium plant height. Suited to low-medium rainfall zones.
Hyola® Regiment XC	Pacific Seeds	-	Mid-maturity dual-herbicide stacked TruFlex® and Clearfield® hybrid. Suitable for medium and high-rainfall zones, dryland and irrigation. Medium height, vigorous early growth and even flowering.
Hyola® Solstice CL	Pacific Seeds	-	Mid-maturity Clearfield® tolerant hybrid. Suitable for medium and high-rainfall zones, dryland and irrigation. Medium height, vigorous early growth and even flowering.
HyTTec® Velocity	Nuseed Pty Ltd	5.00	An early maturing variety that exhibits impressive early vigour, with a compact plant height and improved pod shatter tolerance built in to improve harvesting.
InVigor® T 4511	BASF Australia	-	InVigor® T 4511 is an early-mid triazine-tolerant hybrid of medium height. With excellent early vigour InVigor® T 4511 is ideally suited to early and mid-season growing regions. With higher seedling vigour, higher oil and better blackleg tolerance InVigor® T 4511 is a replacement for InVigor® T 3510 and InVigor® T 4510.
Nuseed® Eagle TF	Nuseed Pty Ltd	-	A mid-maturity TruFlex® hybrid that performs well in mid to high-rainfall zones. Nuseed® Eagle TF gives growers confidence with extremely good early vigour and biomass, increasing integrated weed management options.
Nuseed® Hunter TF	Nuseed Pty Ltd	-	An early-mid maturity TruFlex® hybrid canola with adaptability from low to high-rainfall regions. It has improved pod shatter tolerance with a compact plant height, reducing head loss, and is suitable for medium to quick-growing regions.
PY520TC	Pioneer Hi-Bred Aust Pty Ltd	-	A mid-maturity hybrid suited to medium-long season environments. Triazine-tolerant and Clearfield®-tolerant variety.
Renegade TT [Ⓢ]	Australian Grain Technologies	10.00	Triazine-tolerant, open-pollinated variety. Quick to flower with best performance under medium yield potential conditions.
RGT Baseline TT	RAGT	10.00	Mid-maturing triazine-tolerant hybrid variety. Suited to medium to high-rainfall zones. Medium-tall height. Marketed by Seed Force, an RAGT Company.
VICTORY® V55-04TF	Cargill	-	First release TruFlex® high stability oil hybrid in Australia. Mid-maturity variety. Preferred growing regions Victoria, South Australia and southern NSW. Medium height, replacing VICTORY® V5003RR. Marketed by AWB under contract.

* EPR amount is ex-GST, [Ⓢ] denotes Plant Breeder's Rights apply.

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

Canola variety yield performance – Northern Victoria

The following tables contain yield results from the top-performing varieties within each NVT location in the region for the past five seasons. Data is 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 performance of varieties not listed within these tables can be found by further interrogation of the NVT website via the links below each table. Error bars, normally used to compare data, can be viewed within the graph option also found via the website links below each table. 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	2018	2019	2020	2021	2022
Mean yield (t/ha)		2.57	2.52	2.64	3.15
InVigor® R 4520P	Trial failed	110	110	108	115
Nuseed® Hunter TF				107	106
InVigor® R 4022P		103	103	101	105
Hyola® Regiment XC				105	
Pioneer® 44Y27 RR		101	103	101	99
Nuseed® Raptor TF		103	102	103	96
DG Bindo TF				97	97
InVigor® R 3520		98			
Nuseed® Emu TF			98	96	90
DG Lofty TF				93	92
Sowing date	4 May	9 May	4 May	5 May	22 Apr
Rainfall J–M (mm)	22	36	101	117	59
Rainfall A–O (mm)	180	257	293	263	464

Special thanks to 2022 trial cooperator, Jon Whykes.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 2: Diggora med-high rainfall GLY.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	1.00	1.21	3.06	3.36	3.40
InVigor® R 4520P		125	111	105	121
Nuseed® Hunter TF					108
InVigor® R 4022P		115	107	99	108
Hyola® Regiment XC				111	
Pioneer® 44Y27 RR	102	92	104	104	97
Nuseed® Raptor TF		92	99	108	94
Nuseed® Emu TF			104	99	89
Hyola® Battalion XC			96	99	
DG Bindo TF				97	95
DG Lofty TF				94	87
Sowing date	5 May	6 May	5 May	5 May	25 Apr
Rainfall J–M (mm)	44	33	138	127	84
Rainfall A–O (mm)	190	199	320	390	551

Special thanks to 2022 trial cooperator, Anthony Lees.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 3: Wunghnu med-high rainfall GLY.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	0.33	0.98	2.58	3.34	3.16
InVigor® R 4520P		136	119	102	112
Nuseed® Hunter TF					106
Nuseed® Eagle TF					111
Pioneer® 45Y28 RR	96		104	111	111
Hyola® Regiment XC				116	98
Nuseed® Raptor TF		89	97	114	101
InVigor® R 4022P		126	107	95	99
Hyola® Garrison XC		90	102	103	85
DG Bindo TF					99
DG Hotham TF					105
Sowing date	4 May	5 May	21 Apr	6 May	2 May
Rainfall J–M (mm)	40	5	158	112	121
Rainfall A–O (mm)	146	194	305	264	479

Special thanks to 2022 trial cooperator, Craig Reynolds.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 4: Yarrawonga med-high rainfall GLY.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	1.45	1.73	3.53	2.84	2.73
InVigor® R 4520P		131	107	105	116
Nuseed® Hunter TF					106
Nuseed® Eagle TF					109
Pioneer® 45Y28 RR	102		106	104	110
InVigor® R 4022P		121	101	100	101
Hyola® Regiment XC				108	94
Nuseed® Raptor TF		94	107	102	97
Hyola® Garrison XC		96	102	104	81
DG Bindo TF				97	98
DG Hotham TF				96	104
Sowing date	4 May	7 May	28 Apr	3 May	3 May
Rainfall J–M (mm)	47	24	299	286	272
Rainfall A–O (mm)	166	198	462	252	627

Special thanks to 2022 trial cooperator, Adam Inchbold.
Learn more via the [NVT Long Term Yield Reporter](#)

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Table 5: Charlton med-high rainfall IML

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		2.52	2.58	2.90	2.92
Pioneer® 44Y94 CL	Trial failed		112	109	116
Pioneer® 45Y93 CL		107			
Pioneer® 44Y90 CL		104	105		
Hyola® Solstice CL				105	94
Saintly CL		102			
Pioneer® 43Y92 CL		102	103		
Hyola® Equinox CL			98	100	88
Hyola® 575CL		92			
VICTORY® V7002CL		89	89	91	
Sowing date	4 May	9 May	4 May	5 May	22 Apr
Rainfall J–M (mm)	22	36	101	117	59
Rainfall A–O (mm)	180	257	293	263	464

Special thanks to 2022 trial cooperator, Jon Whykes.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 7: Wunghnu med-high rainfall IML

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	0.33	0.77	2.78	3.27	3.39
Pioneer® 45Y95 CL	101				121
Pioneer® 44Y94 CL		116	106	115	119
Pioneer® 45Y93 CL	89	107	111		121
Hyola® Solstice CL				114	94
Pioneer® 44Y90 CL	99	107	103		
PY520TC					104
Pioneer® 45Y91 CL	89	99	104		
Hyola® Equinox CL			107	105	86
VICTORY® V75-03CL	93	76	89		
VICTORY® V7002CL	95	82	89		
Sowing date	4 May	5 May	21 Apr	6 May	2 May
Rainfall J–M (mm)	40	5	158	112	121
Rainfall A–O (mm)	146	194	305	264	479

Special thanks to 2022 trial cooperator, Craig Reynolds.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 9: Charlton med-high rainfall TT

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		1.98	2.37	2.62	2.84
Hyola® Blazer TT	Trial failed		114	113	118
HyITec® Trifecta				114	114
SF Dynatron TT™		113	112	110	117
RGT Baseline TT					117
HyITec® Trophy		113	111	110	110
RGT Capacity™ TT		110	108	107	114
InVigor® T 4511				107	107
InVigor® T 4510		110	108	106	109
Renegade TT [®]					116
InVigor® LT 4530P			105	103	109
Sowing date	4 May	9 May	4 May	5 May	22 Apr
Rainfall J–M (mm)	22	36	101	117	59
Rainfall A–O (mm)	180	257	293	263	464

Special thanks to 2022 trial cooperator, Jon Whykes.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 6: Diggora med-high rainfall IML

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	0.85	1.04	3.21	3.43	3.31
Pioneer® 45Y95 CL	113				
Pioneer® 44Y94 CL			109	111	119
Pioneer® 45Y93 CL		109			
Hyola® Solstice CL				111	96
Pioneer® 44Y90 CL	101	103	104		
Saintly CL	105	112			
Pioneer® 43Y92 CL	103	101	104		
Hyola® Equinox CL			100	104	89
Hyola® 575CL	89	89			
VICTORY® V7002CL	88	88	92	89	
Sowing date	5 May	6 May	5 May	5 May	25 Apr
Rainfall J–M (mm)	44	33	138	127	84
Rainfall A–O (mm)	190	199	320	390	551

Special thanks to 2022 trial cooperator, Anthony Lees.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 8: Yarrawonga med-high rainfall IML

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	1.40	1.50	3.19	2.71	2.96
Pioneer® 45Y95 CL	113	116		109	121
Pioneer® 44Y94 CL		114	111	103	120
Pioneer® 45Y93 CL	105	106	105	106	123
Hyola® Solstice CL					91
Pioneer® 44Y90 CL	106	105	103		
Hyola® Equinox CL			108	106	83
PY520TC					103
Pioneer® 45Y91 CL	96	99	98		
VICTORY® V75-03CL	88	80	92		
VICTORY® V7002CL	86	84	88		
Sowing date	4 May	7 May	28 Apr	3 May	3 May
Rainfall J–M (mm)	47	24	299	286	272
Rainfall A–O (mm)	166	198	462	252	627

Special thanks to 2022 trial cooperator, Adam Inchbold.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 10: Diggora med-high rainfall TT

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	0.67	1.06		3.19	2.97
HyITec® Trifecta	125		Trial failed	118	119
Hyola® Blazer TT				116	124
SF Dynatron TT™		115		110	123
RGT Baseline TT				108	122
RGT Capacity™ TT		118		106	119
HyITec® Trophy	117	108		113	113
InVigor® T 4510	115	112		108	112
InVigor® T 4511				110	110
InVigor® LT 4530P				101	114
HyITec® Velocity					107
Sowing date	5 May	6 May	5 May	5 May	25 Apr
Rainfall J–M (mm)	44	33	138	127	84
Rainfall A–O (mm)	190	199	320	390	551

Special thanks to 2022 trial cooperator, Anthony Lees.
Learn more via the [NVT Long Term Yield Reporter](#)

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Table 11: Wunghnu med-high rainfall TT.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	0.30	0.98	2.70	2.88	3.06
HyTTec® Trifecta	108		118	125	120
Hyola® Blazer TT			115	122	125
PY520TC					123
SF Dynatron TT™		119	113	112	119
HyTTec® Trophy	112	111	109	120	114
RGT Baseline TT				109	124
InVigor® T 6010		118	119	103	116
RGT Capacity™ TT		120	113	105	114
InVigor® T 4511				114	109
HyTTec® Trident		101	100	128	103
Sowing date	4 May	5 May	21 Apr	6 May	2 May
Rainfall J–M (mm)	40	5	158	112	121
Rainfall A–O (mm)	146	194	305	264	479

Special thanks to 2022 trial cooperator, Craig Reynolds.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 12: Yarrawonga med-high rainfall TT.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	1.48	1.44	2.88	2.47	2.29
HyTTec® Trifecta	114	122	120	113	122
Hyola® Blazer TT			116	110	130
SF Dynatron TT™		120	111	106	125
PY520TC				108	128
HyTTec® Trophy	114	115	115	106	115
InVigor® T 6010		120	106	110	123
RGT Capacity™ TT		121	107	106	119
RGT Baseline TT				110	131
InVigor® T 4510	113	121	110	103	110
InVigor® T 4511				104	110
Sowing date	4 May	7 May	28 Apr	3 May	3 May
Rainfall J–M (mm)	47	24	299	286	272
Rainfall A–O (mm)	166	198	462	252	627

Special thanks to 2022 trial cooperator, Adam Inchbold.
Learn more via the [NVT Long Term Yield Reporter](#)

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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 2023.

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

Table 13: Canola disease guide – autumn 2023 ratings.

Variety	2023 autumn blackleg rating			Type
	Bare	Fluopyram (e.g. ILeVO®)	Pydiflumetofen (e.g. Saltro®)	
CONVENTIONAL VARIETIES				
Nuseed® Quartz	R			Hybrid
Nuseed® Diamond	RMR	R	R	Hybrid
Outlaw [Ⓓ]	RMR	R	R	Open pollinated
TRIAZINE-TOLERANT VARIETIES				
HyTTec® Trident	R			Hybrid
HyTTec® Trifecta	R			Hybrid
HyTTec® Trophy	R	R	R	Hybrid
Hyola® Blazer TT	R			Hybrid
DG BIDGEE TT [Ⓓ]	R	R	R	Open pollinated
InVigor® T 4511	R	R		Hybrid
DG MURRAY TT [Ⓓ]	R			Open pollinated
DG Torrens TT [Ⓓ]	R		R	Open pollinated
Monola® H421TT	RMR			High stability oil, hybrid
Monola® 420TT	RMR			High stability oil, open pollinated
ATR-Bluefin [Ⓓ]	RMR			Open pollinated
InVigor® T 4510	MR	R	R	Hybrid
SF Spark TT	MR	R	R	Hybrid
HyTTec® Velocity	MR			Hybrid
Renegade TT [Ⓓ]	MR	R	R	Open pollinated
Monola® 422TT	MR			High stability oil, open pollinated
ATR-Stingray [Ⓓ]	MRMS	R	R	Open pollinated
RGT Baseline™ TT	MRMS	R	R	Hybrid
ATR-Swordfish [Ⓓ]	MRMS			Open pollinated
SF Dynatron™ TT	MRMS	R	R	Hybrid
InVigor® T 6010	MRMS	R	R	Hybrid
RGT Capacity™ TT	MRMS	R	R	Hybrid
Bandit TT [Ⓓ]	MRMS	R	R	Open pollinated
AFP Cutubury [Ⓓ]	MS	RMR	RMR	Open pollinated
ATR-Bonito [Ⓓ]	MS	RMR	R	Open pollinated
IMIDAZOLINONE-TOLERANT VARIETIES				
Hyola® Feast CL	R			Winter, hybrid, Clearfield®
RGT Nizza CL	R			Winter, hybrid, Clearfield®
Hyola® Solstice CL	R			Hybrid, Clearfield®
Captain CL	R			Winter, hybrid, Clearfield®
Hyola® Equinox CL	R			Hybrid, Clearfield®
Pioneer® 45Y93 CL	R		R	Hybrid, Clearfield®
RGT Clavier™ CL	R			Winter, hybrid, Clearfield®
Hyola® 970CL	R			Winter, hybrid, Clearfield®
Phoenix CL	R			Winter, hybrid, Clearfield®
Nuseed® Ceres IMI	R			Hybrid
VICTORY® V7002CL	R			High stability oil, hybrid, Clearfield®

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible.
Please check updated ratings using the [Blackleg Management Guide](#) or the [NVT Disease Ratings](#).

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Table 13: Canola disease guide – autumn 2023 ratings (continued).

Variety	2023 autumn blackleg rating			Type
	Bare	Fluopyram (e.g. ILeVO®)	Pydiflumetofen (e.g. Saltro®)	
Pioneer® 43Y92 CL	R		R	Hybrid, Clearfield®
Pioneer® 45Y95 CL	R		R	Hybrid, Clearfield®
Pioneer® 44Y94 CL	R		R	Hybrid, Clearfield®
VICTORY® V75-03CL	RMR	R		High stability oil, hybrid, Clearfield®
IMIDAZOLINONE AND TRIAZINE-TOLERANT VARIETIES				
Hyola® Enforcer CT	R			Hybrid, Clearfield®, Triazine
Pioneer® PY520 TC	RMR	R	R	Hybrid, Clearfield®, Triazine
GLYPHOSATE-TOLERANT VARIETIES				
Nuseed® Raptor TF	R			Hybrid, TruFlex®
Nuseed® Eagle TF	R		R	Hybrid, TruFlex®
DG Hotham TF	R		R	Hybrid, TruFlex®
VICTORY® V55-04TF	R	R		High stability oil, hybrid, TruFlex®
VICTORY® V5003RR	R	R		High stability oil, hybrid, Roundup Ready®
DG Lofty TF	R		R	Hybrid, TruFlex®
Pioneer® 45Y28RR	RMR		R	Hybrid, Roundup Ready®
Nuseed® Hunter TF	RMR		R	Hybrid, TruFlex®
Pioneer® 44Y27 RR	RMR	R	R	Hybrid, Roundup Ready®
InVigor® LR 4540P	RMR	R		Hybrid, LibertyLink®, TruFlex®
Pioneer® 44Y30 RR	RMR		R	Hybrid, Roundup Ready®
Nuseed® Emu TF	MR		R	Hybrid, TruFlex®
Hyola® 410XX	MR			Hybrid, TruFlex®
DG Bindo TF	MR			Hybrid, TruFlex®
InVigor® R 4022P	MR	R		Hybrid, TruFlex®
InVigor® R 4520P	MRMS	R		Hybrid, TruFlex®
GLYPHOSATE AND IMIDAZOLINONE-TOLERANT VARIETIES				
Hyola® Regiment XC	R			Hybrid, TruFlex®, Clearfield®
Hyola® Battalion XC	R			Hybrid, TruFlex®, Clearfield®
Hyola® Garrison XC	R			Hybrid, TruFlex®, Clearfield®
GLUFOSINATE AND TRIAZINE-TOLERANT VARIETIES				
InVigor® LT 4530P	RMR	R		Hybrid, LibertyLink®, Triazine

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible.
Please check updated ratings using the [Blackleg Management Guide](#) or the [NVT Disease Ratings](#).

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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	2018	2019	2020	2021	2022
Mean yield (t/ha)			4.00	5.26	3.67
PBA Amberley ^{db}	No trial	No trial	102	101	105
PBA Samira ^{db}			101	101	105
PBA Marne ^{db}			94	107	97
Fiesta VF			101	97	95
PBA Zahra ^{db}			96	101	94
Farah ^{db}			101	95	90
PBA Rana ^{db}				85	86
Nura ^{db}			101	86	71
PBA Bendoc ^{db}			97	89	71
Sowing date			15 May	14 May	16 May
Rainfall J–M (mm)			123	111	203
Rainfall A–O (mm)			408	366	533

Special thanks to 2022 trial cooperator, Alan Shields.
Learn more via the [NVT Long Term Yield Reporter](https://nvt-long-term-yield-reporter.grdc.com.au/)

Refer to the latest *Crop Sowing Guide* for further information at grdc.com.au/nvt-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 2023.

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 : Faba bean disease guide for Victoria.

Variety	Ascochyta blight	Cercospora leaf spot	Chocolate spot (Botrytis)	RLN resistance (<i>Pratylenchus thornei</i>)	Leaf rust
Farah ^{db}	S	S	S	MS	VS
Fiesta VF	S	S	S	MS	VS
Nura ^{db}	MR (P)	S	MS	MS	VS
PBA Amberley ^{db}	MR	S	MRMS	MS	VS
PBA Bendoc ^{db}	MR	S	S	MRMS	VS
PBA Marne ^{db}	MS (P)	S	MS (P)	MS	MRMS
PBA Rana ^{db}	MRMS	S	MS	MS	VS
PBA Samira ^{db}	MR (P)	S	MS	MRMS	S
PBA Zahra ^{db}	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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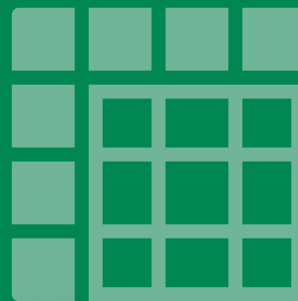
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