

NVT HARVEST REPORT



REVISED MAY 2023

Albany
Western Region

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

PHOTO: Isabelle Rogers

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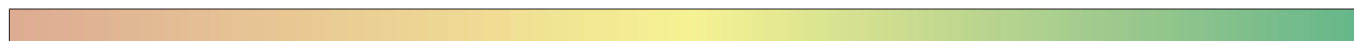
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LEGEND: MEAN VARIETY YIELD PERFORMANCE



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 **Albany**. 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 **Albany** 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 **Albany** 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 **Albany**.

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](#).

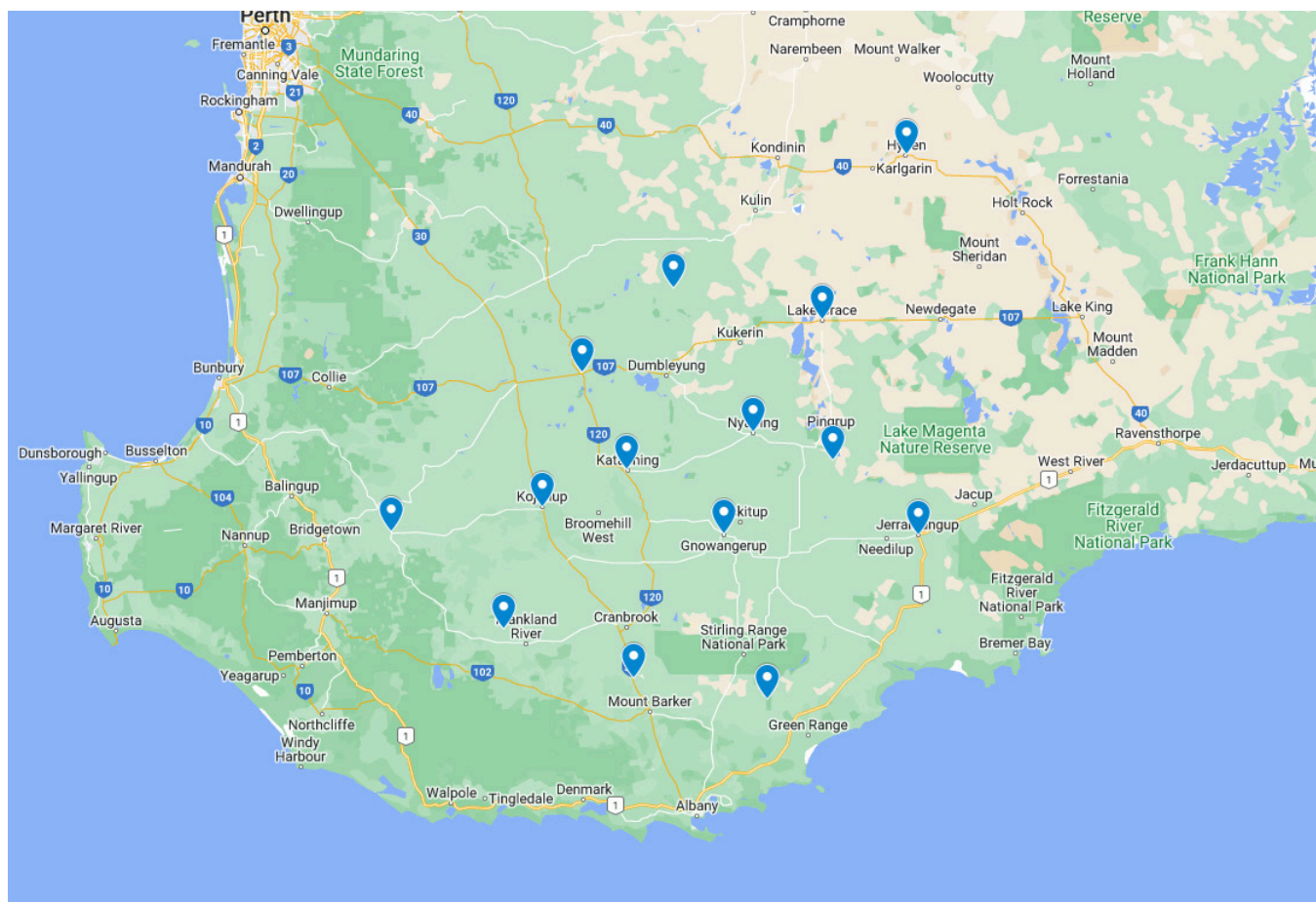
Trials listed as compromised are not suitable for making variety decisions. Results can be found in the [Quarantined trial reports](#).

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

NVT SITE LOCATIONS – Albany

Figure 1: Locality of NVT trial sites in Albany 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.
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.
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 [Ⓢ] .
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.

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

WHEAT

BARLEY

OAT

CANOLA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

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

Wheat variety yield performance – Albany

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: Gnowangerup main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		3.52	3.73	5.17	5.57
Vixen [Ⓢ]	Compromised trial	114	114	103	107
RockStar [Ⓢ]		105	108	110	108
Brumby [Ⓢ]				110	108
Devil [Ⓢ]		107	109	108	106
Scepter [Ⓢ]		108	110	106	106
Calibre [Ⓢ]			112	107	100
Sting [Ⓢ]		110	111	103	102
LRPB Havoc [Ⓢ]		109	107	99	109
Ballista [Ⓢ]		105		108	99
Ninja [Ⓢ]		102	106	107	104
IMI-TOLERANT					
Razor CL Plus [Ⓢ]		106	106	99	101
Sheriff CL Plus [Ⓢ]		100	100	101	105
Chief CL Plus [Ⓢ]		102	99	98	107
Sowing date	30 May	19 Jun	26 May	27 May	12 May
Rainfall J–M (mm)	49	65	34	77	55
Rainfall A–O (mm)	232	246	214	451	384

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 2: Hyden main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	2.20	2.30	2.13	3.84	3.66
Vixen [®]	117	118	123	117	114
Calibre [®]			112	115	111
Devil [®]	122	113	111	114	114
Sting [®]		114	115	114	109
Scepter [®]	115	112	112	114	112
LRPB Avenger [®]		112	118		111
RockStar [®]	118	110	106	113	113
Ballista [®]		111		111	104
Brumby [®]				112	110
LRPB Havoc [®]	95	108	118	109	110
IMI-TOLERANT					
LRPB Anvil [®]			118	105	109
Razor CL Plus [®]	99	106	111	105	102
Hammer CL Plus [®]			105	103	100
Sowing date	1 Jun	22 May	25 May	26 May	25 May
Rainfall J–M (mm)	61	7	81	78	89
Rainfall A–O (mm)	207	192	118	288	324

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

Table 3: Jerramungup main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		2.74	3.23	3.84	4.89
RockStar [®]	Trial failed	109	106	115	114
Calibre [®]			112	112	110
Devil [®]		109	107	112	112
Brumby [®]				112	112
Scepter [®]		108	107	110	110
Vixen [®]		109	109	105	110
Ballista [®]		105		110	107
Sting [®]		106	108	106	107
Kinsei [®]		104	101	110	109
Ninja [®]		104	104	109	107
IMI-TOLERANT					
Valiant [®] CL Plus			97	105	105
Chief CL Plus [®]		103	97	98	103
Razor CL Plus [®]		101	103	98	100
Sowing date	2 May	21 May	25 May	26 May	12 May
Rainfall J–M (mm)	49	49	81	109	76
Rainfall A–O (mm)	180	236	237	469	404
Irrigation A–O (mm)			10		

Special thanks to 2022 trial cooperator, Trent and Tina Parsons.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 4: Kendenup main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	2.14		4.19		5.28
RockStar [®]	116	Compromised trial	112	Trial failed	116
Denison [®]			114		110
Devil [®]	114		108		113
Brumby [®]					113
Kinsei [®]	109		111		111
Calibre [®]			104		113
Scepter [®]	112		104		110
Catapult [®]	105		109		108
Ninja [®]	105		105		110
Cutlass [®]	102		111		104
IMI-TOLERANT					
Valiant [®] CL Plus			113		105
Chief CL Plus [®]	114		101		98
Sheriff CL Plus [®]			101		100
Sowing date	12 Jun	7 May	19 May	27 May	14 May
Rainfall J–M (mm)	48	53	63	98	40
Rainfall A–O (mm)	329	329	363	551	481

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 5: Kojonup main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		3.34	5.89	6.45	5.27
RockStar [®]	Compromised trial	116	111	114	112
Devil [®]		115	109	110	110
Brumby [®]				113	108
Calibre [®]			108	108	110
Denison [®]		113	107	110	108
Kinsei [®]		108	108	111	108
Scepter [®]		110	107	108	107
Catapult [®]		112	105	106	108
Ninja [®]		103	106	110	106
Ballista [®]		99		110	107
IMI-TOLERANT					
Valiant [®] CL Plus			104	104	107
Sheriff CL Plus [®]		101	101	101	99
Chief CL Plus [®]		110	100	97	99
Sowing date	28 May	4 Jun	19 May	28 May	15 May
Rainfall J–M (mm)	65	64	35	99	35
Rainfall A–O (mm)	387	316	321	618	452

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 7: Stirlings South main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			3.56		5.19
RockStar [®]	Trial failed	Trial failed	120	Trial failed	112
Denison [®]			119		109
Devil [®]			115		110
Kinsei [®]			115		108
Brumby [®]					109
Catapult [®]			113		106
Scepter [®]			110		108
Calibre [®]			110		107
Cutlass [®]			113		104
Ninja [®]			108		106
IMI-TOLERANT					
Valiant [®] CL Plus			118		107
Chief CL Plus [®]			105		103
Sheriff CL Plus [®]			102		102
Sowing date	12 Jun	20 May	25 May	26 May	13 May
Rainfall J–M (mm)	39	97	84	112	65
Rainfall A–O (mm)	321	291	295	609	496
Irrigation A–O (mm)			10		

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

Table 6: Lake Grace main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		2.05	1.79	5.34	4.76
Vixen [®]	Compromised trial	123	123	112	112
Calibre [®]			120	109	111
Sting [®]		119	119	110	108
LRPB Avenger [®]		121	117		111
Devil [®]		113	114	108	111
Scepter [®]		112	114	109	109
RockStar [®]		107	110	107	110
LRPB Havoc [®]		109	112	107	107
Ballista [®]		111		108	103
Brumby [®]				108	106
IMI-TOLERANT					
LRPB Anvil [®]			115	103	110
Razor CL Plus [®]		109	109	105	102
Hammer CL Plus [®]			107	103	101
Sowing date	11 Jun	25 May	20 May	25 May	12 May
Rainfall J–M (mm)	54	7	52	69	42
Rainfall A–O (mm)	88	182	183	388	303

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

Table 8: Wagin main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	4.11	3.28	2.99	5.05	3.49
Calibre [®]			111	112	115
RockStar [®]	116	105	108	113	116
Devil [®]	113	108	110	112	115
Scepter [®]	110	108	110	109	112
Vixen [®]	107	113	116	106	110
Brumby [®]				110	112
Ballista [®]		106		109	110
Sting [®]		110	112	106	109
Ninja [®]	109	103	105	108	108
Kinsei [®]	110	100	102	108	109
IMI-TOLERANT					
Valiant [®] CL Plus			93	104	105
Razor CL Plus [®]	98	106	107	99	100
Hammer CL Plus [®]			104	100	100
Sowing date	25 May	7 Jun	25 May	28 May	28 May
Rainfall J–M (mm)	60	27	66	63	26
Rainfall A–O (mm)	311	302	177	411	308

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

WHEAT

BARLEY

OAT

CANOLA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

Table 9: Hyden early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		2.41	2.05	4.60	3.27
RockStar [®]	Compromised trial	128	134	127	111
Denison [®]			115	120	120
Kinsei [®]		121	127	118	108
Catapult [®]		120	126	118	108
Coota [®]			124	116	106
Cutlass [®]		111	107	112	114
LRPB Trojan [®]		112	127	108	91
Magenta [®]		103	108	104	97
Yitpi [®]		102	108	103	99
EG Titanium		101	105	104	100
IMI-TOLERANT					
Valiant [®] CL Plus				112	112
Sheriff CL Plus [®]		111	125	110	93
Sowing date	19 Apr	16 Apr	30 Apr	23 Apr	12 Apr
Rainfall J–M (mm)	61	7	81	78	89
Rainfall A–O (mm)	207	192	118	288	324

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

Table 10: Jerramungup early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	1.19			4.54	3.91
RockStar [®]		No trial	Compromised trial	146	95
Stockade [®]					125
Denison [®]				115	112
Kinsei [®]	107			124	98
Cutlass [®]	108			109	115
Mowhawk [®]					126
Catapult [®]	108			120	97
DS Bennett [®]				85	132
Coota [®]				110	91
Illabo [®]	89			93	109
IMI-TOLERANT					
Valiant [®] CL Plus				112	111
Sheriff CL Plus [®]				115	72
Sowing date	19 Apr		1 May	28 Apr	14 Apr
Rainfall J–M (mm)	49		81	109	76
Rainfall A–O (mm)	180		237	469	404
Irrigation A–O (mm)			10		

Special thanks to 2022 trial cooperator, Trent and Tina Parsons.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 11: Stirlings South early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)				5.20	5.20
Stockade [®]	Trial failed	Compromised trial	Compromised trial		127
RockStar [®]				117	119
Mowhawk [®]					117
Cutlass [®]				111	110
Severn [®]				110	110
Kinsei [®]				109	110
Denison [®]				110	107
DS Bennett [®]				108	107
Catapult [®]				107	107
Illabo [®]				105	108
IMI-TOLERANT					
Valiant [®] CL Plus				110	110
Sheriff CL Plus [®]				91	91
Sowing date	26 Apr	12 Apr	2 May	21 Apr	28 Apr
Rainfall J–M (mm)	39	97	84	112	65
Rainfall A–O (mm)	321	291	295	609	496
Irrigation A–O (mm)			10		

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

WHEAT

BARLEY

OAT

CANOLA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

Wheat variety quality – Albany

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 Albany 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 six NVT sites in Albany in 2021.

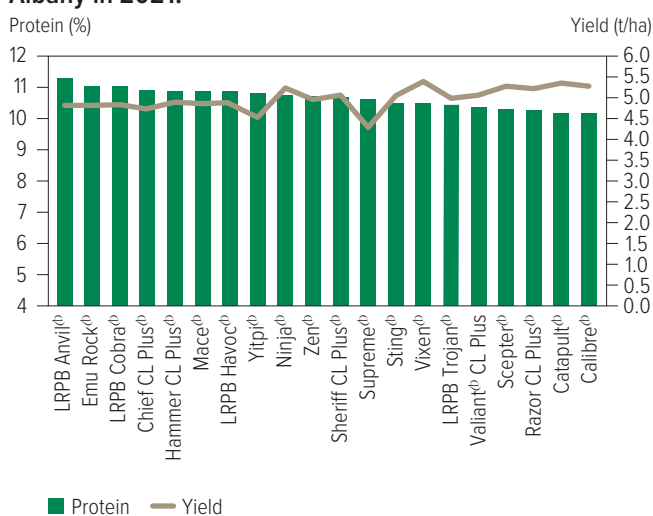


Figure 2: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from eight NVT sites in Albany in 2022.

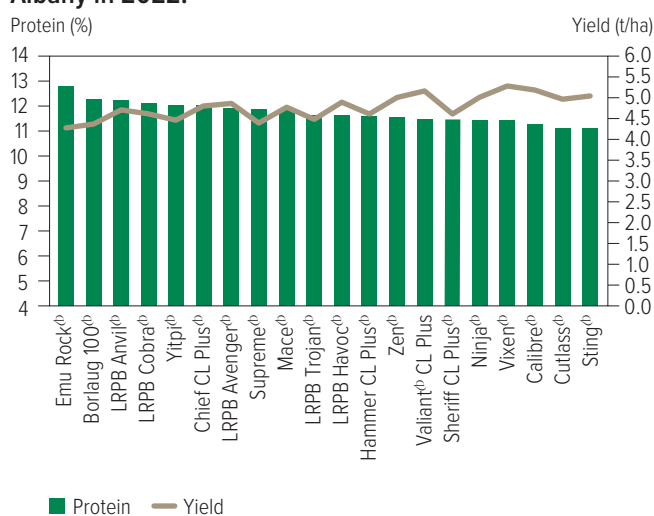


Figure 3: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from three NVT sites in Albany in 2021.

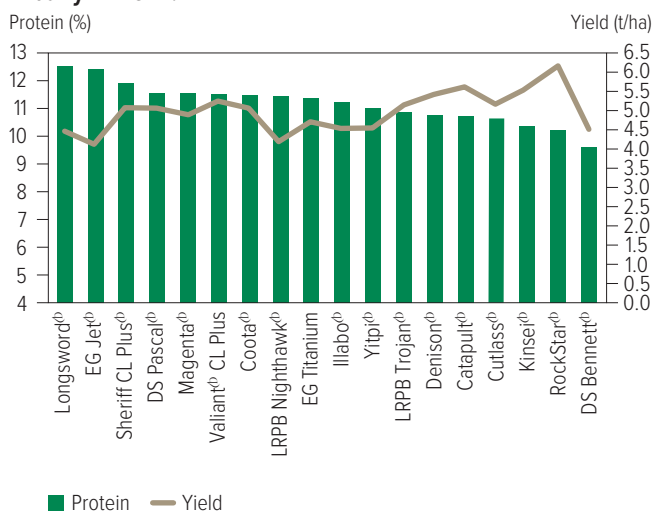
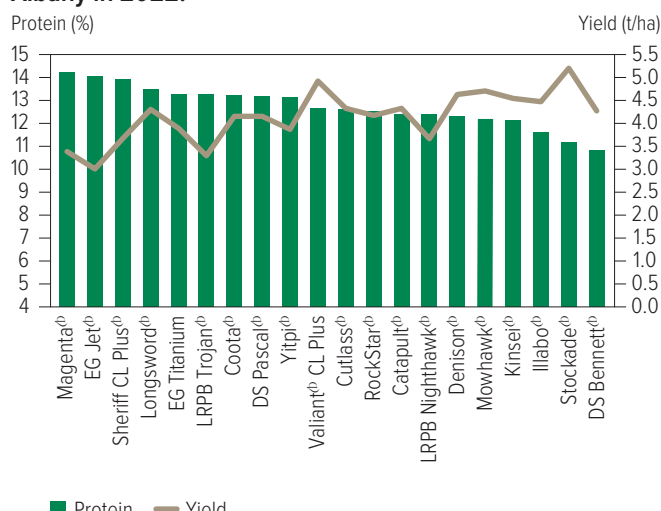


Figure 4: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from three NVT sites in Albany in 2022.



WHEAT

BARLEY

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FABA BEAN

FIELD PEA

LENTIL

LUPIN

Test weight comparisons

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

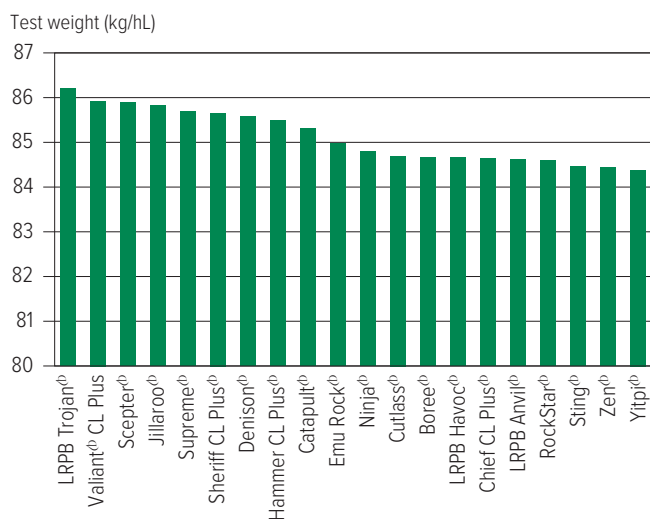


Figure 6: Test weight (kg/hL) comparisons for main season wheat varieties from eight NVT sites in Albany in 2022.

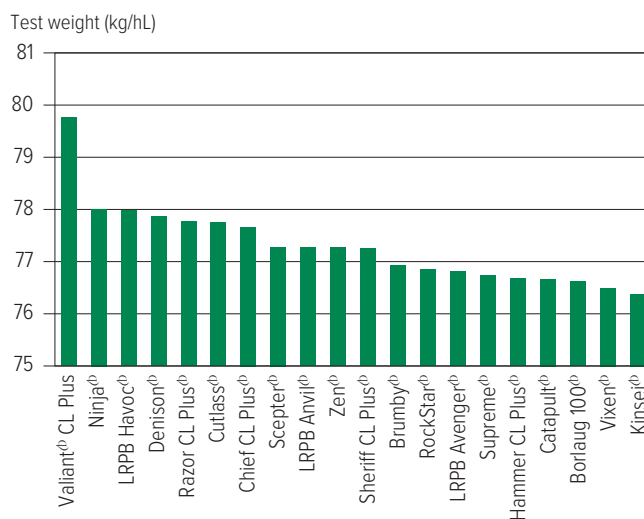


Figure 7: Test weight (kg/hL) comparisons for early season wheat varieties from three NVT sites in Albany in 2021.

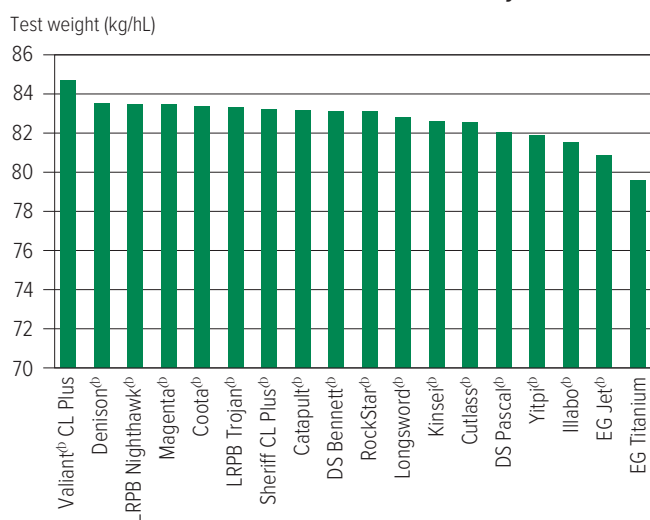
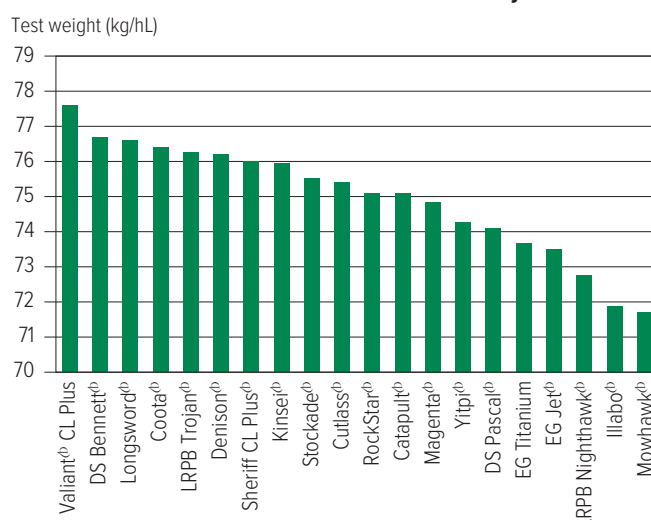


Figure 8: Test weight (kg/hL) comparisons for early season wheat varieties from three NVT sites in Albany in 2022.



WHEAT

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LENTIL

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Screenings comparisons

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

Screenings (%<2.0mm)

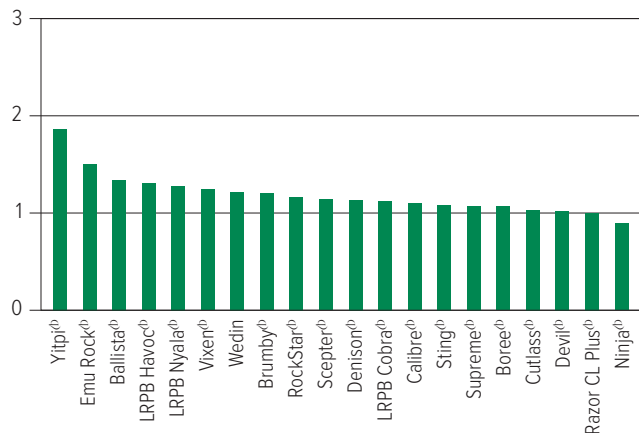


Figure 10: Screenings (<2.0mm) comparisons for main season wheat varieties from eight NVT sites in Albany in 2022.

Screenings (%<2.0mm)

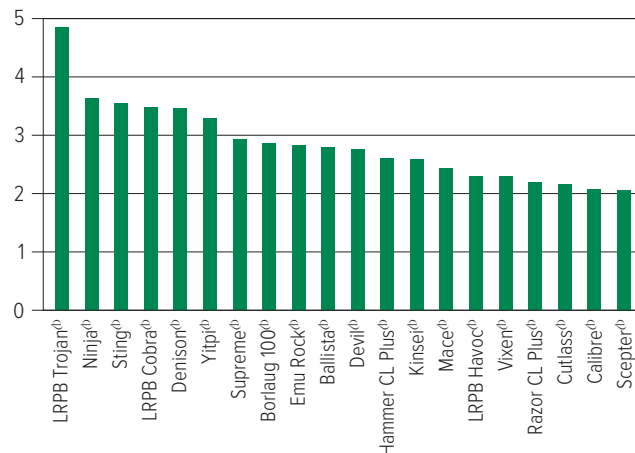


Figure 11: Screenings (<2.0mm) comparisons for early season wheat varieties from three NVT sites in Albany in 2021.

Screenings (%<2.0mm)

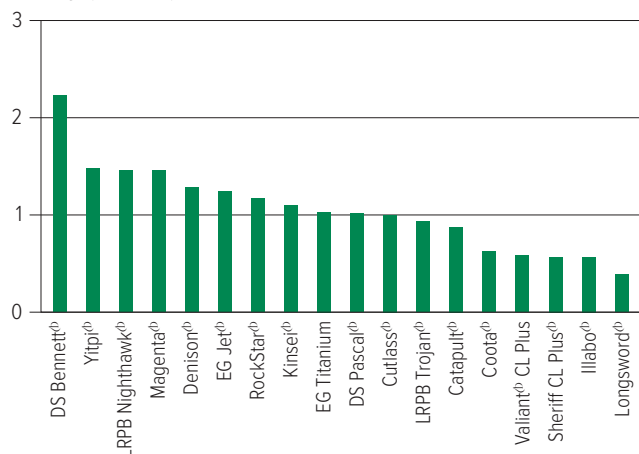
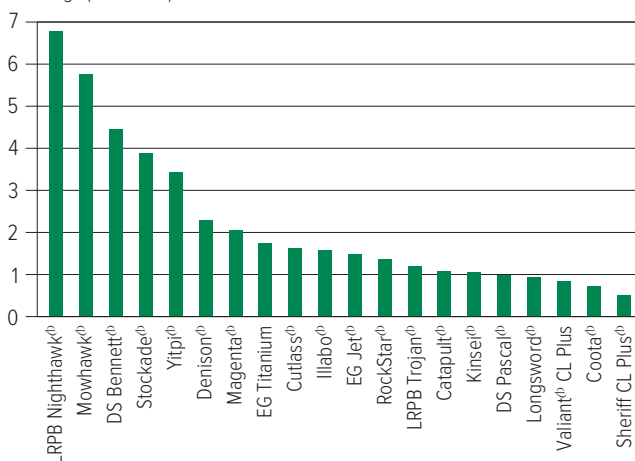


Figure 12: Screenings (<2.0mm) comparisons for early season wheat varieties from three NVT sites in Albany in 2022.

Screenings (%<2.0mm)



WHEAT

BARLEY

OAT

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FIELD PEA

LENTIL

LUPIN

Wheat variety disease ratings – Western Australia

The following table contains varietal ratings for the predominant diseases of wheat in Western Australia. These ratings are updated annually by crop pathologists and were released in March 2023.

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

Table 12: Wheat disease guide for Western Australia.

Variety	Yellow spot	Nodorum blotch (leaf)	Nodorum blotch (glume)	Stem rust	Stripe rust (west coast resistance)	Leaf rust	Powdery mildew	Septoria tritici blotch	RLN resistance (<i>Pratylenchus neglectus</i>)	RLN resistance (<i>Pratylenchus quasireoides</i>)	CCN	Crown rot
Ballista ^{db}	MS	MRMS	MS	MR	RMR	S	S	SVS	S		MRMS	S
Borlaug 100 ^{db}	MRMS	MRMS	MRMS	MR	RMR	MR	S	MS	S		MS	MSS
Brumby ^{db}	MRMS	MS	MRMS	MR	RMR	SVS	R	MSS (P)	MRMS		MRMS	S
Calibre ^{db}	MRMS	MSS	MSS	MR	RMR	S	MSS	SVS	S	MR (P)	MRMS	S
Catapult ^{db}	MRMS	MRMS	MRMS	MR	RMR	S	S	S	S	MRMS	R	MSS
Chief CL Plus ^{db}	MRMS	MRMS	MS	MR	S	MR	S	MSS	MRMS	MRMS	MS	MSS
Coota ^{db}	MSS	MS	MRMS	RMR	MR	MR	S	MSS	MR		MR	MSS
Cutlass ^{db}	MSS	MRMS	MRMS	R	RMR	RMR	S	MSS	MSS	MS (P)	MR	S
Denison ^{db}	MRMS	MRMS	MR	MS	MR	S	S	MS	S	MR (P)	MS	MSS
Devil ^{db}	MRMS	MRMS	MS	S	MR	SVS	S	SVS	MSS	MRMS	MSS	MSS
DS Bennett ^{db}	MRMS	MR	MR	MS	RMR	SVS	RMR (SVS)	MR	S		S	VS
DS Pascal ^{db}	MS	MRMS	MRMS	MSS	RMR	MS	RMR	MS	S		S	S
EG Jet ^{db}	MRMS		MSS	S	RMR	S	MS	MSS	S		MRMS	S
EG Titanium	MSS		MRMS	MS	RMR	MS	MSS	MSS	MSS		R	MSS
EGA Wedgetail ^{db}	MSS	MRMS	MRMS	MRMS	MS	MSS	MRMS	MRMS	S		S	S
Emu Rock ^{db}	MS	MRMS	S	MS	MRMS	SVS	MSS	S	MSS	MS (P)	S	MSS
Hammer CL Plus ^{db}	MRMS	MRMS	MRMS	MR	RMR	S	SVS	MSS	MSS	MR (P)	MRMS	MSS
Illabo ^{db}	MS	MR	MR	MRMS	RMR	S	RMR	MR	MSS	RMR	MRMS	S
Kinsei ^{db}	MS	MRMS	MRMS	MSS	MRMS	MSS	S	MSS	S	S	MSS	MSS
Longsword ^{db}	MRMS	MRMS	MRMS	MR	RMR	MR#	MRMS	MRMS	MRMS		MRMS	MSS
LRPB Anvil ^{db}	MSS	MSS	MSS	MR	RMR	SVS	S	S	MSS		MRMS	MSS
LRPB Avenger ^{db}	MS	MS	S	MS	MRMS	S	S	MSS	MSS		MRMS	SVS
LRPB Cobra ^{db}	MRMS	MS	MRMS	MR	MSS	MR#	MSS	S	MSS	MSS (P)	MS	S
LRPB Havoc ^{db}	MRMS	MRMS	MS	S	MR	S	MSS	MRMS	S	MRMS	S	MSS
LRPB Nighthawk ^{db}	MS	MR	MRMS	RMR	RMR	MSS	MSS	MRMS	MSS	MRMS (P)	MS	MSS
LRPB Nyala ^{db}	MS	MR	MSS	SVS	RMR	S	R	SVS	S		MSS	MSS
LRPB Oryx ^{db}	MSS	MSS	S	MR	RMR	RMR#	RMR	SVS	MSS	MSS (P)	S	MSS
LRPB Trojan ^{db}	MSS	MS	MS	MRMS	MR	MR#	S	S	MSS	MS (P)	MS	MS
Mace ^{db}	MRMS	MS	MS	MRMS	RMR	S	MSS	S	MS	MRMS	MRMS	S
Mowhawk ^{db}	MRMS (P)			RMR (P)	RMR (P)	MR (P)						
Razor CL Plus ^{db}	MSS	MS	MS	MRMS	RMR	S	MSS	SVS	S		MR	S
RockStar ^{db}	MRMS	MRMS	MRMS	MRMS	RMR	S	MS	S	MRMS	MS	MSS	S
Scepter ^{db}	MRMS	MSS	MRMS	MRMS	RMR	MSS	S	S	S	MS	MRMS	MSS
Severn ^{db}	MRMS	MR (P)	MR	MS	RMR	MRMS	R	MS (P)	S		MSS (P)	S
Sheriff CL Plus ^{db}	MRMS	MRMS	MRMS	MS	MS	SVS	SVS	S	MRMS	MRMS (P)	MS	S
Sting ^{db}	MRMS	MS	MS	MRMS	MR	SVS	S	S	MRMS	MS (P)	MS	MSS
Stockade ^{db}	MRMS	MR	MRMS	MS	RMR	MR (P)	S	MS (P)	S		MRMS	S
Valiant ^{db} CL Plus	MRMS	MRMS	MR	MR	RMR	S	S	MRMS	S	MS (P)	MSS (P)	S
Vixen ^{db}	MRMS	MSS	MSS	MRMS	MRMS	SVS	SVS	MSS	MRMS	MSS	MSS	S
Yitpi ^{db}	SVS	MRMS	MS	S	MRMS	S	MS	MS	MSS	MS	MR	S

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, () 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.

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

* EPR amount is ex-GST, ^{db} 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 – Albany

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: Frankland main season barley.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	3.81	5.11	6.95	7.47	6.52
Combat ^{db}				116	112
Cyclops ^{db}			110	113	105
Minotaur ^{db}			110	106	105
RGT Planet ^{db}	104	106	102	108	112
Leabrook ^{db}	100	99	106	111	106
Rosalind ^{db}	104	108	109	102	99
Laperouse ^{db}	100	102	108	107	101
Beast ^{db}		101	111	107	99
Fandaga ^{db}					102
Compass ^{db}	98	97	103	104	99
HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE)					
Zena ^{db} CL				105	110
Titan AX ^{db}					107
Maximus ^{db} CL	99	104	110	98	92
Commodus ^{db} CL			103	101	97
Sowing date	29 May	27 May	19 May	2 Jun	5 Jun
Rainfall J–M (mm)	29	60	61	95	29
Rainfall A–O (mm)	346	341	498	581	483

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 3: Hyden main season barley.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	3.16	2.07	2.62	3.65	3.28
Cyclops ^{db}			130	119	102
Rosalind ^{db}	109	136	119	115	109
Beast ^{db}		133	127	122	98
Combat ^{db}				116	100
Buff ^{db}	112	111	113	111	120
Laperouse ^{db}	108	119	122	113	101
Leabrook ^{db}	103	117	115	118	94
Fathom ^{db}	101	110	111	111	104
Compass ^{db}	98	117	112	116	96
La Trobe ^{db}	100	116	112	107	103
HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE)					
Maximus ^{db} CL	109	132	129	112	110
Spartacus CL ^{db}	101	118	117	105	105
Titan AX ^{db}				114	96
Commodus ^{db} CL			106	109	94
Sowing date	2 Jun	22 May	25 May	26 May	25 May
Rainfall J–M (mm)	61	7	81	78	89
Rainfall A–O (mm)	207	192	118	288	324

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

Table 2: Gnowangerup main season barley.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			4.60	5.09	4.79
Combat ^{db}				110	110
Cyclops ^{db}			109	105	115
Leabrook ^{db}			104	110	108
Beast ^{db}			106	102	114
Laperouse ^{db}			106	101	112
Minotaur ^{db}			107	102	107
Rosalind ^{db}			109	98	105
Compass ^{db}			101	105	105
RGT Planet ^{db}			103	110	95
Fathom ^{db}			100	101	102
HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE)					
Titan AX ^{db}					104
Maximus ^{db} CL			106	89	113
Zena ^{db} CL				109	93
Commodus ^{db} CL			99	102	104
Sowing date			26 May	27 May	12 May
Rainfall J–M (mm)			34	77	55
Rainfall A–O (mm)			214	435	384

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 4: Jerramungup main season barley.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		2.74	3.89	4.18	4.63
Combat ^{db}				113	117
Cyclops ^{db}			111	114	117
Laperouse ^{db}		107	107	108	112
Beast ^{db}		113	110	103	109
Leabrook ^{db}		103	112	109	107
Minotaur ^{db}			104	104	111
Rosalind ^{db}		119	105	97	105
RGT Planet ^{db}		103	104	106	103
Compass ^{db}		104	108	100	100
Fathom ^{db}		98	104	100	99
HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE)					
Titan AX ^{db}				110	105
Maximus ^{db} CL		116	100	97	108
Zena ^{db} CL				103	100
Commodus ^{db} CL			104	98	99
Sowing date	2 May	21 May	25 May	26 May	12 May
Rainfall J–M (mm)	49	49	81	109	76
Rainfall A–O (mm)	180	236	237	469	404

Special thanks to 2022 trial cooperators, Trent and Tina Parsons.
Learn more via the [NVT Long Term Yield Reporter](#)

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Table 5: Kendenup main season barley.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	3.86	4.54	3.57		5.76
Combat ^{db}				Trial failed	111
Cyclops ^{db}			110		107
Minotaur ^{db}			105		113
Laperouse ^{db}	108	106	105		106
Rosalind ^{db}	98	108	105		106
RGT Planet ^{db}	93	111	103		104
Beast ^{db}		103	97		103
Fandaga ^{db}					103
Leabrook ^{db}	103	104	98		98
Flinders ^{db}	100	96	98		105
HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE)					
Maximus ^{db} CL	107	103	105		110
Zena ^{db} CL					103
Spartacus CL ^{db}	105	97	99		106
Titan AX ^{db}					95
Sowing date	12 Jun	7 May	19 May	27 May	14 May
Rainfall J–M (mm)	48	53	63	98	40
Rainfall A–O (mm)	329	289	363	551	481

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 7: Lake Grace main season barley.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		1.91	2.14	4.70	4.19
Beast ^{db}	Compromised trial	120	122	110	117
Cyclops ^{db}			116	110	126
Combat ^{db}				111	116
Laperouse ^{db}		105	113	107	119
Leabrook ^{db}		102	115	107	118
Compass ^{db}		112	116	105	109
Rosalind ^{db}		132	111	108	99
La Trobe ^{db}		117	109	103	102
Fathom ^{db}		108	108	102	107
Minotaur ^{db}			105	106	104
HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE)					
Maximus ^{db} CL		126	114	108	108
Titan AX ^{db}				105	117
Spartacus CL ^{db}		119	109	104	102
Commodus ^{db} CL			112	103	105
Sowing date	11 Jun	25 May	20 May	25 May	12 May
Rainfall J–M (mm)	54	7	52	69	42
Rainfall A–O (mm)	88	182	183	388	303

Special thanks to 2022 trial cooperator, Grant Marshall.
Learn more via the [NTV Long Term Yield Reporter](#)

Table 6: Kojonup main season barley.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	4.63	3.74	6.03	6.00	6.97
Combat ^{db}				110	110
Cyclops ^{db}			111	106	107
Minotaur ^{db}			110	102	107
RGT Planet ^{db}	110	97	104	108	106
Laperouse ^{db}	103	112	107	102	104
Rosalind ^{db}	106	116	103	100	101
Leabrook ^{db}	103	106	101	106	104
Beast ^{db}		117	101	100	102
Fandaga ^{db}					101
Buff ^{db}	98	97	99	107	98
HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE)					
Zena ^{db} CL				107	104
Titan AX ^{db}					103
Maximus ^{db} CL	100	119	106	94	100
Spartacus CL ^{db}	96	112	101	91	98
Sowing date	28 May	4 Jun	19 May	28 May	15 May
Rainfall J–M (mm)	65	64	35	98	35
Rainfall A–O (mm)	387	316	321	605	452

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 8: Stirlings South main season barley.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		4.25	4.20		4.69
Combat [Ⓢ]	Trial failed			Trial failed	123
Cyclops [Ⓢ]			119		126
Minotaur [Ⓢ]			112		118
Laperouse [Ⓢ]		108	113		118
Beast [Ⓢ]		101	114		108
Rosalind [Ⓢ]		109	106		103
Leabrook [Ⓢ]		98	114		104
RGT Planet [Ⓢ]		106	106		102
Fandaga [Ⓢ]					98
La Trobe [Ⓢ]		98	100		
HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE)					
Maximus [Ⓢ] CL		111	106		117
Spartacus CL [Ⓢ]		103	100		107
Titan AX [Ⓢ]					102
Zena [Ⓢ] CL					97
Sowing date	13 Jun	20 May	25 May	26 May	13 May
Rainfall J–M (mm)	39	97	84	112	65
Rainfall A–O (mm)	321	325	295	609	496

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

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Barley variety quality – Albany

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 Albany 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 six NVT sites in Albany in 2021.

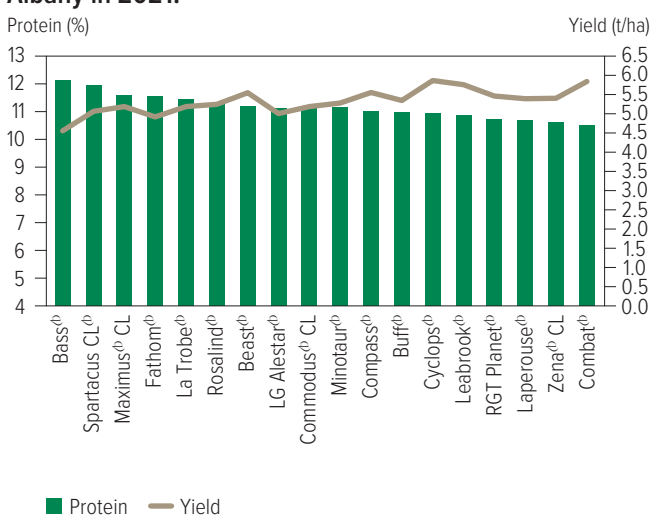
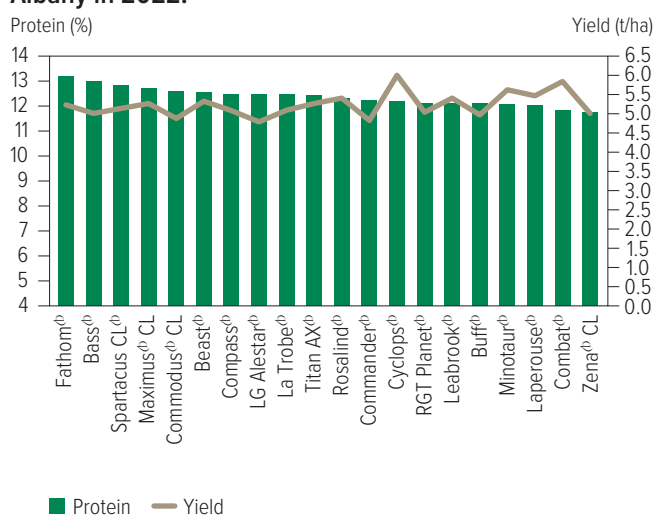


Figure 2: Protein (%) and yield (t/ha) comparisons for main season barley varieties from eight NVT sites in Albany in 2022.



Test weight comparisons

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

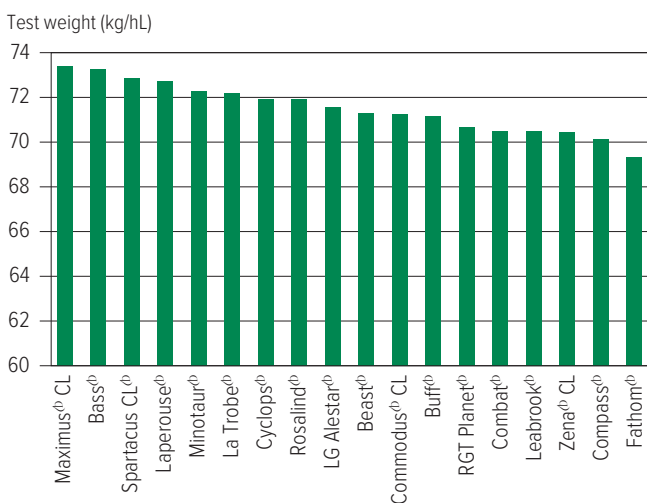
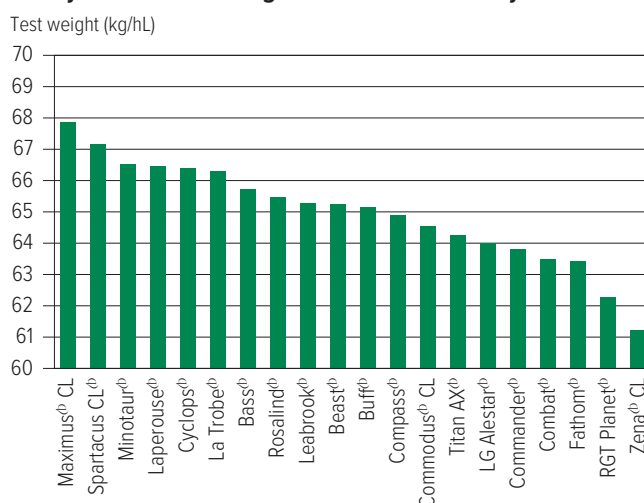


Figure 4: Test weight (kg/hL) comparisons for main season barley varieties from eight NVT sites in Albany in 2022.



Screenings comparisons

Figure 5: Screenings (<2.5mm) comparisons for main season barley varieties from six NVT sites in Albany in 2021.

Screenings (%<2.5mm)

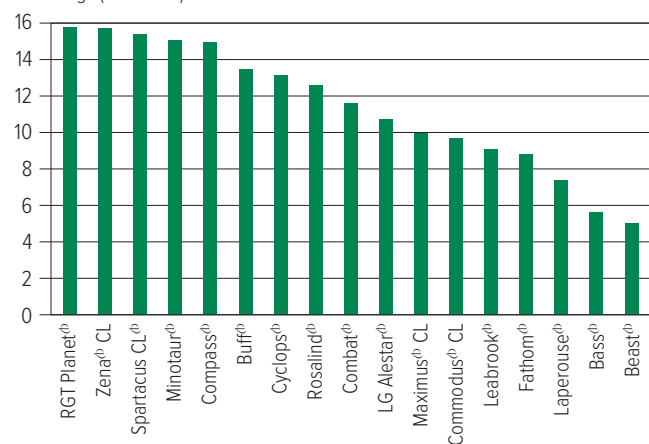
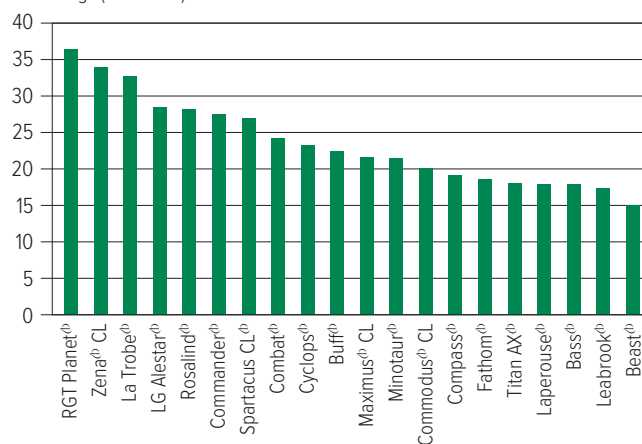


Figure 6: Screenings (<2.5mm) comparisons for main season barley varieties from eight NVT sites in Albany in 2022.

Screenings (%<2.5mm)



Retention comparisons

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

Retention (%>2.5mm)

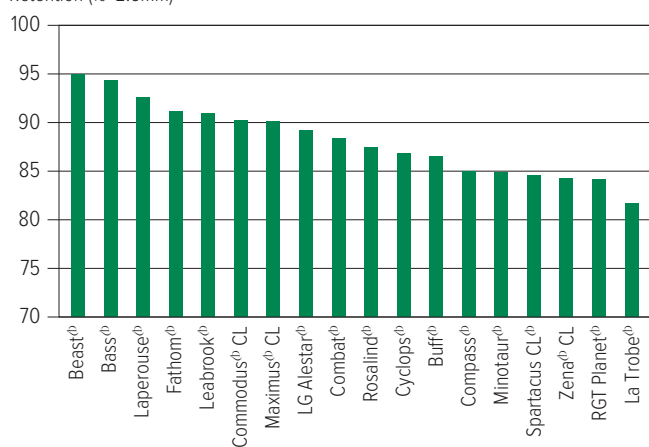
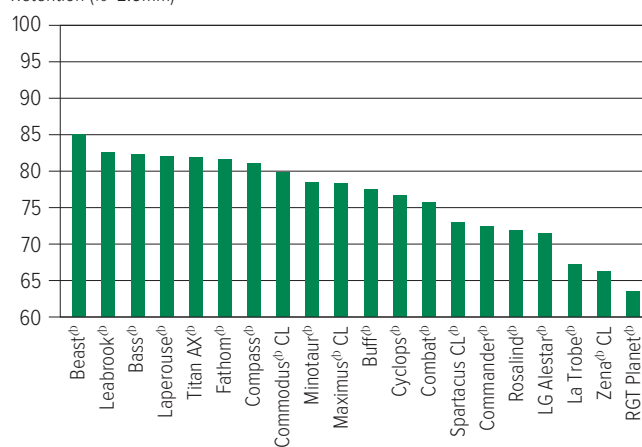


Figure 8: Retention (>2.5mm) comparisons for main season barley varieties from eight NVT sites in Albany in 2022.

Retention (%>2.5mm)



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Barley variety disease ratings – Western Australia

The following table contains varietal ratings for the predominant diseases of barley in Western Australia. These ratings are updated annually by crop pathologists and were released in March 2023.

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

Table 9: Barley disease guide for Western Australia.

Variety	Scald	Net form net blotch	Spot form net blotch	Powdery mildew	Leaf rust	Crown rot	Barley yellow dwarf virus	RLN resistance (<i>Pratylenchus neglectus</i>)	RLN resistance (<i>Pratylenchus quasitereoides</i>)	CCN	Ramularia
Bass ^{db}	MRMS-MS	MRMS-SVS	MSS	MSS	SVS	MSS	MRMS	MS	MSS	S	VS (P)
Beast ^{db}	S	MRMS-S	MSS	MR	MSS	S	MS	MRMS	MS (P)	MR	SVS (P)
Bottler ^{db}	S	MR-MS	MSS	RMR	MS	SVS	MRMS	MS			SVS (P)
Buff ^{db}	MRMS-MS	MR-MSS	MSS	S	S	S	MRMS-MS	MRMS	S		SVS (P)
Combat ^{db}	S	MRMS-S	MRMS	R	MS	S (P)	MRMS	MR		MRMS	SVS (P)
Commander ^{db}	MS-S	MRMS-S	MSS	MR	MSS	S	MRMS-MS	MRMS		R	SVS (P)
Commodus ^{db} CL	MS	MRMS-S	MSS	R-MRMS	S	S (P)	MRMS	MRMS	MS (P)	R	SVS (P)
Compass ^{db}	MS	MR-S	MSS	R-MRMS	S	S	MS	MRMS	S	R	SVS (P)
Cyclops ^{db}	MRMS	MR-S	S	MR	S	S (P)	S	MRMS	MSS (P)	S	SVS (P)
Fairview ^{db}	S	MRMS-VS	MSS	R	S	MSS	MRMS	MR			SVS (P)
Fandaga ^{db}	VS	R-MSS	S	RMR	MSS	MSS (P)	MS	MR		R	VS (P)
Fathom ^{db}	MR	MS-SVS	MR	MR-MRMS	MS	SVS	MRMS	MRMS	MSS	R	SVS (P)
Flinders ^{db}	S	MRMS-S	MSS	RMR	MS	MSS	MRMS	MRMS	MSS (P)	S	SVS (P)
La Trobe ^{db}	RMR	MRMS-S	MSS	S	S	S	MS-S	MRMS	S	R	SVS (P)
Laperouse ^{db}	S	MR-S	MS	R-MR	MSS	S	MRMS-MS	MR	MS (P)	S	VS (P)
Leabrook ^{db}	MS	MRMS-S	MSS	R-MR	MSS	S	MS-MSS	MRMS	MS	RMR	VS (P)
LG Alestar ^{db}	S	MRMS-S	S	R	MS	S	MRMS-MS	MR		R ^a (P)	SVS (P)
Litmus ^{db}	S	MS-SVS	MSS	MR	S	S	S	MS	MSS (P)	MS	VS (P)
Maximus ^{db} CL	R	MR-S	MSS	MR	MSS	S	MRMS	MRMS	S	R	VS (P)
Minotaur ^{db}	VS	MRMS-MS	S	S	S	MS	MSS	MRMS	MS (P)	R	SVS (P)
RGT Planet ^{db}	RMR	MRMS-SVS	S	R	MRMS-MS	MSS	MRMS-MS	MRMS	MS	R (P)	VS (P)
Rosalind ^{db}	MSS	MR-S	MSS	MSS	MR	MSS	MRMS-MS	MRMS	MSS	R	VS (P)
Scope CL ^{db}	MS	MR-MSS	MSS	MR	MSS	S	MRMS	MRMS	MRMS	S	SVS (P)
Spartacus CL ^{db}	RMR	MRMS-S	SVS	MSS	MSS	S	MSS	MRMS	MSS	R	VS (P)
Titan AX ^{db}	S	MR-MSS	MS	RMR	S	MSS (P)	MS	R		MR (P)	VS (P)
Zena ^{db} CL	MR	MRMS-SVS	SVS	R	MS	MSS (P)	MRMS-MS	MRMS		R	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, - hyphen indicates a range, ^a 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 – Albany

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: Pingrup oat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		2.76	1.32	2.91	3.53
Wandering	Trial failed	106	118	106	107
Bannister [Ⓛ]		105	112	111	103
Koala [Ⓛ]		102	109	125	94
Williams [Ⓛ]		107	123	107	95
Bilby [Ⓛ]		101	101	96	108
Kojonup [Ⓛ]		87	89	110	98
Kowari [Ⓛ]		97	93	91	103
Carrolup		92	101	94	79
Yallara [Ⓛ]		97	100	94	68
Durack [Ⓛ]		93	88	84	83
Sowing date	2 May	21 May	25 May	1 Jun	30 Apr
Rainfall J–M (mm)	41	24	49	48	57
Rainfall A–O (mm)	169	188	180	386	320

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 2: Rylington Park oat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	4.52	4.00			4.65
Koala [Ⓛ]	114	143	Compromised trial	Trial results below standard	97
Kojonup [Ⓛ]	105	124			106
Williams [Ⓛ]	111	118			105
Wandering	109	113			107
Bannister [Ⓛ]	109	119			101
Carrolup	99	100			104
Koorabup [Ⓛ]	98	104			94
Bilby [Ⓛ]	99	92			103
Yallara [Ⓛ]	95	94			94
Kowari [Ⓛ]	94	85			101
Sowing date	28 May	6 May	25 May	2 Jun	7 Jun
Rainfall J–M (mm)	39	60	47	93	20
Rainfall A–O (mm)	481	407	527	634	541

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 3: Wagin oat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	4.73	3.33	3.21	4.30	3.78
Koala [Ⓛ]	118	106	109	121	116
Bannister [Ⓛ]	111	104	107	112	115
Wandering	108	100	106	107	117
Williams [Ⓛ]	109	101	105	107	109
Bilby [Ⓛ]	98	99	100	98	105
Kojonup [Ⓛ]	98	86	96	98	99
Kowari [Ⓛ]	92	96	96	91	94
Yallara [Ⓛ]	91	100	91	87	64
Koorabup [Ⓛ]	93	98	91	88	62
Carrolup	89	89	90	84	73
Sowing date	25 May	7 Jun	25 May	3 Jun	12 May
Rainfall J–M (mm)	60	27	66	63	26
Rainfall A–O (mm)	311	302	177	411	308

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

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Oat variety disease ratings – Western Australia

The following table contains varietal ratings for the predominant diseases of oat in Western Australia. These ratings are updated annually by crop pathologists and were released in March 2023.

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

Table 4: Oat disease guide for Western Australia.

Variety	Septoria blotch	Leaf rust (crown rust)	Stem rust	Barley yellow dwarf virus (BYDV)	RLN resistance (<i>Pratylenchus neglectus</i>)	CCN
Bannister ^{db}	MSS	MR/MRMS	MS	MS	MS	MR
Bilby ^{db}	S	MRMS	SVS	S	S	S
Carrolup	MSS	VS	S	SVS	MRMS	VS
Durack ^{db}	S	MRMS	SVS	S	MS	MRMS
Echidna	SVS	SVS	S	MSS	MSS	MS
Koala ^{db}	MSS	MR	MRMS	MSS	MS	R
Kojonup ^{db}	MSS	SVS	MSS	MS	MSS	VS
Koorabup ^{db}	MRMS#	MRMS	MSS	MSS	MSS	MRMS
Kowari ^{db}	S	MR/MRMS	S	S	MSS	S
Mitika ^{db}	SVS	MRMS	S	SVS	S	VS
Mulgara ^{db}	S/MRMS	MR	MR	MS		R
Possum	S	MR/MS	S	S	MS	MSS
Tungoo ^{db}	MRMS#	RMR	MS	MSS	MSS	MR
Wandering	MSS	VS	SVS	S	MSS	VS
Williams ^{db}	MSS	MR	MSS	MSS	MRMS	S
Wintaroo ^{db}	MSS	S	MS	MS	MSS	R
Yallara ^{db}	MSS	MR	MSS	MSS	MR	R

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
Bandit TT [Ⓛ]	Australian Grain Technologies	10.00	Triazine-tolerant, open-pollinated variety suitable to low rainfall environments. Very quick to flower.
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.

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

Canola variety yield performance – Albany

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: Gnowangerup med-high rainfall GLY.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)				3.58	2.30
Nuseed® Hunter TF	No trial	No trial	Trial failed		110
Nuseed® Condor TF				112	110
InVigor® R 4520P				113	106
Hyola® Regiment XC				111	109
Nuseed® Eagle TF					108
Pioneer® 44Y30 RR				109	107
Pioneer® 45Y28 RR				107	107
Nuseed® Raptor TF				106	108
Pioneer® 44Y27 RR				104	108
InVigor® R 4022P				104	100
Sowing date			7 May	30 Apr	20 Apr
Rainfall J–M (mm)			74	74	55
Rainfall A–O (mm)			202	429	384

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 2: Katanning med-high rainfall GLY.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	1.50	1.78		3.37	2.90
InVigor® R 4520P		114	Trial failed	112	112
Nuseed® Hunter TF				111	110
Nuseed® Condor TF		111		114	106
Nuseed® Eagle TF					104
Pioneer® 44Y30 RR				108	108
Pioneer® 45Y28 RR	104			112	102
Nuseed® Raptor TF		104		106	102
InVigor® R 4022P		108		99	107
Pioneer® 44Y27 RR	106	103		100	104
Hyola® Battalion XC				95	100
Sowing date	2 May	24 May	5 May	24 Apr	19 Apr
Rainfall J–M (mm)	52	44	64	68	26
Rainfall A–O (mm)	263	271	157	454	381

Special thanks to 2022 trial cooperator, Hall, Junmallup Pastoral Co.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 3: Kendenup med-high rainfall GLY.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	2.36	3.12	3.06	3.22	3.39
Nuseed® Eagle TF				113	114
Nuseed® Condor TF		108	106	112	112
Pioneer® 45Y28 RR	110		105	112	113
Hyola® Regiment XC				109	107
Nuseed® Hunter TF					108
InVigor® R 4520P		107	109	106	110
Pioneer® 44Y30 RR			107	105	107
Nuseed® Raptor TF		102	103	107	105
DG Hotham TF				103	103
Pioneer® 44Y27 RR	104	97	103	101	98
Sowing date	21 May	24 Apr	6 May	20 Apr	21 Apr
Rainfall J–M (mm)	48	53	63	81	44
Rainfall A–O (mm)	329	329	363	633	528

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 4: Kojonup med-high rainfall GLY.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	2.69	2.95	3.72	3.97	2.76
Nuseed® Condor TF		102	106	117	112
Nuseed® Hunter TF				110	108
Nuseed® Eagle TF				116	112
Hyola® Regiment XC				117	110
Pioneer® 45Y28 RR	104		103	115	111
InVigor® R 4520P		108	109	103	107
Nuseed® Raptor TF		101	104	113	106
Pioneer® 44Y30 RR			108	104	105
Pioneer® 44Y27 RR	106	103	106	103	99
InVigor® R 4022P		104	105	92	97
Sowing date	15 May	23 Apr	6 May	23 Apr	28 Apr
Rainfall J–M (mm)	65	64	35	82	37
Rainfall A–O (mm)	387	316	321	549	459

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

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Table 5: Stirlings South med-high rainfall GLY.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		2.96	2.60		3.18
InVigor® R 4520P	Trial failed	110	115	Compromised trial	107
Nuseed® Hunter TF					114
Pioneer® 44Y30 RR			108		112
Nuseed® Eagle TF					104
Nuseed® Condor TF		106	105		107
Pioneer® 45Y28 RR			105		102
InVigor® R 4022P		98	105		107
Nuseed® Raptor TF		100	97		111
Hyola® Regiment XC					103
DG Bindo TF					97
Sowing date	4 May	24 Apr	6 May	22 Apr	28 Apr
Rainfall J–M (mm)	39	97	84	109	65
Rainfall A–O (mm)	321	325	295	607	496

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

Table 6: Wagin med-high rainfall GLY.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)				3.19	1.77
Nuseed® Hunter TF	No trial	No trial	Trial failed	111	118
Pioneer® 44Y27 RR				112	116
Pioneer® 44Y30 RR				110	111
Nuseed® Condor TF				110	111
Nuseed® Raptor TF				110	109
InVigor® R 4520P				107	112
Nuseed® Eagle TF					103
Pioneer® 45Y28 RR				111	99
Nuseed® Emu TF					126
InVigor® R 4022P				98	112
Sowing date			6 May	20 Apr	12 May
Rainfall J–M (mm)			66	68	26
Rainfall A–O (mm)			177	408	308

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 7: Hyden low-med rainfall GLY.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			1.57	2.93	
Pioneer® 44Y27 RR	No trial	No trial	110	105	Compromised trial
DG 408RR			104		
Hyola® Regiment XC				105	
Pioneer® 44Y30 RR				105	
InVigor® R 4520P			96	102	
InVigor® R 4022P			98	100	
InVigor® R 3520			102	96	
Hyola® Battalion XC			97	98	
Hyola® 410XX			95	96	
DG Lofty TF				95	
Sowing date			25 May	22 Apr	17 Apr
Rainfall J–M (mm)			81	78	92
Rainfall A–O (mm)			118	288	331

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

Table 8: Jerramungup low-med rainfall GLY.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			1.44	3.24	2.52
Nuseed® Hunter TF	Trial failed	Compromised trial			113
Pioneer® 44Y27 RR			108	103	109
InVigor® R 4520P			92	105	110
Pioneer® 44Y30 RR				109	102
Nuseed® Emu TF			118		108
InVigor® R 4022P			97	99	107
Hyola® Battalion XC			99	96	98
Hyola® Garrison XC			92		94
Hyola® 410XX			97	98	89
DG Lofty TF				94	99
Sowing date	1 May	16 Apr	5 May	28 Apr	17 Apr
Rainfall J–M (mm)	49	49	81	109	76
Rainfall A–O (mm)	180	236	237	469	404

Special thanks to 2022 trial cooperator, Trent and Tina Parsons.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 9: Nyabing low-med rainfall GLY.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		1.06		2.97	2.51
Nuseed® Raptor TF	Trial failed	117	Trial failed	108	115
InVigor® R 4520P		110		111	111
Nuseed® Hunter TF				108	110
Pioneer® 44Y30 RR				107	109
InVigor® R 4022P		110		104	108
DG Lofty TF				99	108
Pioneer® 44Y27 RR		105		104	104
Hyola® Garrison XC		102			102
DG Bindo TF					101
Hyola® Battalion XC				96	101
Sowing date	27 Apr	30 Apr	5 May	20 Apr	18 Apr
Rainfall J–M (mm)	59	34	47	69	45
Rainfall A–O (mm)	196	198	179	409	303

Special thanks to 2022 trial cooperator, Rosdean Partners, Scott and Michaela Crosby and family.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 10: Kendenup med-high rainfall IMI.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	3.07	3.20	3.28	3.38	4.13
Pioneer® 45Y95 CL	113			120	120
Pioneer® 45Y93 CL		121	108	116	118
Pioneer® 44Y94 CL		115	110	115	115
Pioneer® 44Y90 CL	102	109	105		
Hyola® Solstice CL				105	103
Pioneer® 45Y91 CL	99	107	100		
Banker CL		107			
Hyola® Equinox CL			99	96	
VICTORY® V75-03CL		92	93	92	
VICTORY® V7002CL		84	90		
Sowing date	21 May	24 Apr	6 May	20 Apr	21 Apr
Rainfall J–M (mm)	48	53	63	81	44
Rainfall A–O (mm)	329	329	363	633	528

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

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Table 11: Kojonup med-high rainfall IMI.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	2.54	2.74	3.63	3.93	3.24
Pioneer® 45Y95 CL	111			123	116
Pioneer® 44Y94 CL		110	111	116	111
Pioneer® 45Y93 CL		105	104	117	112
Hyola® Solstice CL				113	108
Pioneer® 44Y90 CL	103	104	104		
Hyola® Equinox CL			103	101	
Saintly CL	103	103			
Pioneer® 45Y91 CL	96	99	97		
VICTORY® V75-03CL		93	92	91	
VICTORY® V7002CL		91	90		
Sowing date	15 May	23 Apr	6 May	23 Apr	28 Apr
Rainfall J–M (mm)	65	64	35	82	37
Rainfall A–O (mm)	387	316	321	549	459

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 13: Katanning med-high rainfall TT.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	1.56	1.75		3.00	2.59
HyTTec® Trifecta	115	118	Trial failed		113
Hyola® Blazer TT				128	111
HyTTec® Trophy	112	113		119	111
HyTTec® Trident	118	115		113	112
SF Dynatron TT™		111		119	110
InVigor® T 4511				113	110
InVigor® T 4510	109	112		111	110
HyTTec® Velocity					112
RGT Capacity™ TT		109		114	108
RGT Baseline TT				123	102
Sowing date	2 May	24 May	5 May	24 Apr	19 Apr
Rainfall J–M (mm)	52	44	64	68	26
Rainfall A–O (mm)	263	271	157	454	381

Special thanks to 2022 trial cooperator, Hall, Junmullup Pastoral Co.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 15: Kojonup med-high rainfall TT.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	2.31	2.43	3.35	3.66	2.99
HyTTec® Trifecta	117	109	113	129	119
Hyola® Blazer TT			112	127	118
HyTTec® Trophy	114	109	112	120	112
PY520TC				123	116
SF Dynatron TT™		110	110	115	112
InVigor® T 4511				112	108
RGT Baseline TT				120	116
InVigor® T 4510	111	108	110	109	106
RGT Capacity™ TT		107	107	109	109
InVigor® T 6010		104	103	111	112
Sowing date	15 May	23 Apr	6 May	23 Apr	28 Apr
Rainfall J–M (mm)	65	64	35	82	37
Rainfall A–O (mm)	387	316	321	549	459

Special thanks to 2022 trial cooperator – permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 12: Gnowangerup med-high rainfall TT.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)				2.99	2.42
HyTTec® Trifecta	No trial	No trial	Trial failed	125	116
Hyola® Blazer TT				121	114
HyTTec® Trophy				119	114
SF Dynatron TT™				116	109
InVigor® T 4511				115	110
PY520TC					110
InVigor® T 4510				114	109
RGT Capacity™ TT				112	105
InVigor® T 6010				111	102
RGT Baseline TT					104
Sowing date			7 May	30 Apr	20 Apr
Rainfall J–M (mm)			74	74	55
Rainfall A–O (mm)			202	429	384

Special thanks to 2022 trial cooperator – permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 14: Kendenup med-high rainfall TT.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	2.45	2.96	2.87	2.98	3.70
Hyola® Blazer TT			114	124	124
HyTTec® Trifecta	124	120	114	123	123
PY520TC				121	121
RGT Baseline TT				120	123
SF Dynatron TT™			111	115	117
HyTTec® Trophy		112	111	116	115
DG BIDGEE TT®				115	116
InVigor® T 6010		116	107	113	116
RGT Capacity™ TT			108	110	112
InVigor® T 4511				110	109
Sowing date	21 May	24 Apr	6 May	20 Apr	21 Apr
Rainfall J–M (mm)	48	53	63	81	44
Rainfall A–O (mm)	329	329	363	633	528

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 16: Stirlings South med-high rainfall TT.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		2.67	2.52		2.96
Hyola® Blazer TT	Trial failed		117	Compromised trial	113
HyTTec® Trifecta		119	116		113
SF Dynatron TT™					110
PY520TC					107
HyTTec® Trophy		111	109		119
InVigor® T 4511					116
InVigor® T 4510		106	108		115
RGT Capacity™ TT		113			103
RGT Baseline TT					89
InVigor® T 6010		118	116		90
Sowing date	4 May	24 Apr	6 May	22 Apr	28 Apr
Rainfall J–M (mm)	39	97	84	109	65
Rainfall A–O (mm)	321	325	295	607	496

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

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Table 17: Wagin med-high rainfall TT.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	1.88	1.18	1.91	3.14	2.10
HyTTec® Trident	116	111	109	122	126
HyTTec® Velocity					121
HyTTec® Trophy	113	109	109	120	113
HyTTec® Trifecta	118	111			111
Hyola® Blazer TT			107	124	106
InVigor® T 4511				114	113
InVigor® T 4510	110	111	111	112	113
SF Dynatron TT™		107	111	117	105
InVigor® LT 4530P			114	100	111
RGT Capacity™ TT			107	108	103
Sowing date	25 May	16 May	6 May	20 Apr	12 May
Rainfall J–M (mm)	60	27	66	68	26
Rainfall A–O (mm)	311	302	177	408	308

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 18: Hyden low-med rainfall TT.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	0.68	1.33	1.56	2.82	
HyTTec® Trident		120	114	114	
HyTTec® Velocity			116		
SF Dynatron TT™		117	101		
InVigor® T 4510	134	111	106	107	
InVigor® LT 4530P			100	104	
InVigor® T 4511				105	
SF Spark TT		100	104	101	
Renegade TT [Ⓢ]				99	
Bandit TT [Ⓢ]				100	
AFP Cutubury [Ⓢ]				93	
Sowing date	4 May	1 May	25 May	22 Apr	17 Apr
Rainfall J–M (mm)	61	7	81	78	92
Rainfall A–O (mm)	207	192	118	288	331

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

Table 19: Jerramungup low-med rainfall TT.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			1.58	2.91	2.52
HyTTec® Trident			111	111	117
HyTTec® Velocity					114
SF Dynatron TT™			98		112
Hyola® Blazer TT			96		106
InVigor® T 4510			104	106	113
HyTTec® Trophy			103		109
InVigor® LT 4530P			98	106	110
InVigor® T 4511				106	107
RGT Capacity™ TT			106		99
Hyola® Enforcer CT			94		100
Sowing date	1 May	16 Apr	5 May	28 Apr	17 Apr
Rainfall J–M (mm)	49	49	81	109	76
Rainfall A–O (mm)	180	236	237	469	404

Special thanks to 2022 trial cooperators, Trent and Tina Parsons.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 20: Nyabing low-med rainfall TT.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	1.28		2.44	3.13	2.49
HyTTec® Trident	117		111	110	116
SF Dynatron TT™			106	112	116
Hyola® Blazer TT			108		109
InVigor® T 4510	117		105	108	112
HyTTec® Trophy	111				110
InVigor® LT 4530P			102	108	111
HyTTec® Velocity				104	108
InVigor® T 4511				106	111
RGT Baseline TT					102
Hyola® Enforcer CT			101		108
Sowing date	27 Apr	30 Apr	5 May	20 Apr	18 Apr
Rainfall J–M (mm)	59	34	47	69	45
Rainfall A–O (mm)	196	198	179	409	303

Special thanks to 2022 trial cooperators, Rossdean Partners, Scott and Michaela Crosby and family.
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 21: 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				
HyITec® Trident	R			Hybrid
HyITec® Trifecta	R			Hybrid
HyITec® 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
HyITec® 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 21: 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 – Albany

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: Gnowangerup faba bean.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)					2.44
PBA Marne ^{db}					106
PBA Bendoc ^{db}					101
PBA Zahra ^{db}					101
PBA Samira ^{db}					98
Nura ^{db}	No trial	No trial	Compromised trial	Trial results below standard	98
Farah ^{db}					98
Fiesta VF					97
PBA Amberley ^{db}					97
PBA Rana ^{db}					87
Sowing date			7 May	27 Apr	12 May
Rainfall J–M (mm)			74	77	55
Rainfall A–O (mm)			202	435	384

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 2: Kojonup faba bean.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			1.63	2.65	3.02
PBA Marne ^{db}			85	124	113
Fiesta VF			106	106	100
PBA Amberley ^{db}			107	102	99
Farah ^{db}			102	101	98
PBA Rana ^{db}	No trial	No trial		96	86
PBA Samira ^{db}			103	97	96
Nura ^{db}			99	94	94
PBA Zahra ^{db}			78	92	92
PBA Bendoc ^{db}			80	85	92
Sowing date			7 May	26 Apr	28 Apr
Rainfall J–M (mm)			45	99	29
Rainfall A–O (mm)			322	618	429

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

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

Faba bean variety disease ratings – Western Australia

The following table contains varietal ratings for the predominant diseases of field pea in Western Australia. These ratings are updated annually by crop pathologists and were released in March 2023.

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

Table 3: Faba bean disease guide for Western Australia.

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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Field pea variety yield performance – Albany

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: Katanning field pea.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	1.14	2.19	2.05		1.48
PBA Pearl	106	104	104	Trial failed	
PBA Taylor ^{db}	94	104	114		111
PBA Butler ^{db}	95	103	110		108
PBA Wharton ^{db}	96	100	104		106
PBA Gunyah ^{db}	84	95	104		115
PBA Oura ^{db}	106	100	94		99
Kaspa ^{db}	85	96	105		100
PBA Twilight ^{db}	84	94	101		107
GIA Ourstar ^{db*}			77		82
GIA Kastar ^{db*}			84		66
Sowing date	14 Jun	13 Jun	25 May	1 Jun	7 Jun
Rainfall J–M (mm)	52	44	64	68	26
Rainfall A–O (mm)	263	271	157	454	381

Special thanks to 2022 trial cooperator, Hall, Junmallup Pastoral Co.

* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 2: Pingrup field pea.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	0.65	0.77	1.42	1.46	1.65
PBA Pearl	105	109	103		
PBA Butler ^{db}	77	97	101	104	112
PBA Taylor ^{db}	60	87	109	112	108
PBA Oura ^{db}	118	106	99	95	99
PBA Wharton ^{db}	84	91	107	106	100
PBA Gunyah ^{db}	85	91	101	99	109
PBA Twilight ^{db}	89	90	99	100	101
GIA Ourstar ^{db*}			91	86	80
Kaspa ^{db}	82	93	95	101	101
GIA Kastar ^{db*}			92	100	64
Sowing date	15 Jun	13 Jun	25 May	17 Jun	7 Jun
Rainfall J–M (mm)	41	24	56	48	57
Rainfall A–O (mm)	169	188	189	386	320

Special thanks to 2022 trial cooperator - permission to publish was not received.

* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

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

Field pea variety disease ratings – Western Australia

The following table contains varietal ratings for the predominant diseases of field pea in Western Australia. These ratings are updated annually by crop pathologists and were released in March 2023.

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

Table 3: Field pea disease guide for Western Australia.

Variety	Bacterial blight	Downy mildew	Powdery mildew	RLN resistance (<i>Pratylenchus neglectus</i>)	RLN resistance (<i>Pratylenchus thornei</i>)
GIA Kastar [Ⓛ]	S	S	RMR	MR	MS
GIA Ourstar [Ⓛ]	S (P)	S	S	MRMS	MSS
Kaspa [Ⓛ]	S	S	S	RMR	MRMS
PBA Butler [Ⓛ]	MS	S	S	RMR	MRMS
PBA Gunyah [Ⓛ]	S	S	S	RMR	MRMS
PBA Oura [Ⓛ]	MS	S	S	MR	MRMS
PBA Pearl	MS	S	S	MR	MRMS
PBA Percy	MRMS	S	S	RMR	RMR
PBA Taylor [Ⓛ]	S	S	S	RMR	MRMS
PBA Twilight [Ⓛ]	S	S	S	MR	MRMS
PBA Wharton [Ⓛ]	S	S	RMR	MR	MRMS

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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New lentil varieties

The following information is for lentil 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
GIA Leader [®]	Grains Innovation Australia	Red	5.40	An imidazolinone-tolerant red lentil variety well suited to reliable lentil growing areas in medium to higher-rainfall zones. GIA Leader [®] has a good level of foliar disease resistance (both Botrytis grey mould (BGM) and Ascochyta blight) and improved vegetative frost tolerance compared to PBA Hurricane XT [®] . This variety has imidazolinone and soil residue sulfonylurea herbicide tolerance similar to existing XT varieties. GIA Leader [®] has mid to late flowering and maturity, similar to Nugget, making it well suited to early sowing. It has a spreading plant type that can assist protection of pods at maturity. Uniform grey seed coat and the grain is well suited to the medium-sized Nugget-type market.
GIA Lightning [®]	Grains Innovation Australia	Red	5.40	An imidazolinone-tolerant, high-yielding small round red lentil with superior adaptation to light textured sandy soils than other lentil varieties, making it suitable for growing in Mallee regions. GIA Lightning [®] has an upright plant type, which aids harvestability. This variety has imidazolinone and soil residue sulfonylurea herbicide tolerance similar to existing XT varieties. GIA Lightning [®] is mid to late flowering with mid-maturity, has moderate resistance to pod drop and lodging, and is resistant/moderately resistant to shattering at maturity. GIA Lightning [®] has the same Ascochyta blight disease rating as GIA Thunder [®] but is more susceptible to BGM. GIA Lightning [®] is not well suited to soil types or regions prone to BGM.
GIA Metro [®]	Grains Innovation Australia	Red	7.50	The first lentil to combine imidazolinone and metribuzin herbicide tolerances. This unique combination of herbicide tolerance will expand weed control options in lentil, particularly in light-textured soils prone to damage from the application of Group 5 (previously Group C) herbicides. Grain yield is significantly lower than existing lentil varieties in the absence of weed pressure, or where weeds are controlled effectively without crop damage from Group 5 herbicides. GIA Metro [®] is a large, lens-shaped red lentil with a grey seed coat.
GIA Sire [®]	Grains Innovation Australia	Red	TBC	The first lentil with improved tolerance to Clopyralid soil residues from a prior crop applied according to product label directions. GIA Sire [®] is a premium, small, round red lentil with a grey seed coat. Its tolerance to imidazolinone and soil residue sulfonylurea is similar to existing XT varieties. GIA Sire [®] is slow-growing with smaller plant parts, increased basal branching and shorter plant height compared to other lentil varieties. It is best suited to agronomic practices such as early sowing and lentil growing environments that maximise growth, harvest height and grain yield. Avoid growing this variety in low-fertility sandy soils or low-rainfall, frost-prone environments. Seed of GIA Sire [®] is available only under small, scale-controlled release.
GIA Thunder [®]	Grains Innovation Australia	Red	5.40	A broadly adapted, imidazolinone-tolerant, small, round red lentil, offering growers high and stable yields across all lentil growing regions. GIA Thunder [®] is a mid-flowering and mid-maturing variety, with better vegetative frost tolerance than PBA HighlandXT [®] , PBA Hallmark XT [®] , PBA Hurricane XT [®] and GIA Lightning [®] . GIA Thunder [®] has similar Group 2 (imidazolinone and soil residue sulfonylurea) herbicide tolerance to existing XT varieties. GIA Thunder [®] has the same Ascochyta blight disease rating as PBA Hurricane XT [®] and GIA Lightning [®] but an improved BGM rating over both. The grain is well suited to the small premium round grain market with a uniform grey seed coat with seed size similar to PBA Hurricane XT [®] .

* EPR amount is ex-GST, [®] denotes Plant Breeder's Rights apply, TBC denotes to be confirmed.

The table above has been updated in this **Revised May 2023** harvest report. Please disregard all previous versions of this report, which regrettably contained incorrect information. Of specific importance, it should be noted that GIA Thunder[®] lentil is in the same small round lentil market class as PBA Hurricane XT[®]; this was incorrectly stated in previous editions.

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

Lentil variety yield performance – Albany

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: Gnowangerup lentil.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)				2.05	
GIA Thunder ^{db*}	No trial	No trial	Trial failed	116	Trial failed
GIA Lightning ^{db*}				114	
PBA HighlandXT ^{db*}				106	
PBA Hallmark XT ^{db*}				105	
PBA Hurricane XT ^{db*}				105	
GIA Leader ^{db*}				104	
PBA Kelpie XT ^{db*}				100	
PBA Jumbo2 ^{db}				97	
PBA Bolt ^{db}				97	
GIA Sire ^{db*}				96	
Sowing date			7 May	9 Jun	15 May
Rainfall J–M (mm)			74	77	55
Rainfall A–O (mm)			202	432	384

Special thanks to 2022 trial cooperator - permission to publish was not received.

* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Lentil variety disease ratings – Western Australia

The following table contains varietal ratings for the predominant diseases of lentil in Western Australia. These ratings are updated annually by crop pathologists and were released in March 2023.

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

Table 2: Lentil disease guide for Western Australia.

Variety	Ascochyta blight (Pathotype 2 PBA Hurricane XT ^{db} virulent)	Ascochyta blight (Pathotype 1 Nipper ^{db} virulent)	Botrytis grey mould	RLN resistance (<i>Pratylenchus neglectus</i>)	RLN resistance (<i>Pratylenchus thornei</i>)
GIA Leader ^{db}	MR	MR	MRMS (P)	R	MR
GIA Lightning ^{db}	MRMS	R	MS	R	MR
GIA Metro ^{db}	RMR	MR	MRMS	MR	MRMS
GIA Sire ^{db}	MRMS (P)	R	MS	MR	MR
GIA Thunder ^{db}	MRMS	R	MRMS	MR	R
Nipper ^{db}	MR	MRMS	MRMS (P)	RMR	MR
PBA Ace ^{db}	MR	R	MS	MR	MRMS
PBA Blitz ^{db}	MR	MRMS	MS (P)	MR	MRMS
PBA Bolt ^{db}	MRMS	MR	S	MR	MR
PBA Hallmark XT ^{db}	MRMS	RMR	MRMS (P)	MR	MRMS
PBA HighlandXT ^{db}	MR	MR	MS	MR	MRMS
PBA Hurricane XT ^{db}	MRMS	RMR	MS	MRMS	MRMS
PBA Jumbo2 ^{db}	RMR (P)	R	MR (P)	MR	MRMS
PBA Kelpie XT ^{db}	MRMS	MRMS	MS (P)	MRMS	MRMS

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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New lupin varieties

The following information is for lupin varieties released in the 12 months to the date when the MET analysis was published on NVT online.

Variety	Variety owner	End point royalty* (\$)	Comments supplied by variety owner
Lawler ^{db}	Australian Grain Technologies	4.00	A widely adapted variety, offering growers high and stable yields across all NSW, Victorian and South Australian lupin growing regions.

* 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

Lupin variety yield performance – Albany

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: Katanning narrow-leaf lupin.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		2.43	1.97		2.41
PBA Jurien ^{db}	Trial failed	101	111	Trial failed	113
Coyote ^{db}		104	111		106
Lawler ^{db}			109		106
PBA Bateman ^{db}		102	106		105
Mandelup ^{db}		99	105		107
PBA Barlock ^{db}		97	103		109
PBA Gunyidi ^{db}		101	99		98
Coromup ^{db}		98	93		90
PBA Leeman ^{db}		96	91		89
Wonga		88	82		98
Sowing date	2 May	18 May	5 May	30 Apr	1 May
Rainfall J–M (mm)	52	44	64	68	26
Rainfall A–O (mm)	263	271	157	454	381

Special thanks to 2022 trial cooperator, Hall, Junmallup Pastoral Co.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 2: Pingrup narrow-leaf lupin.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			1.86	3.37	1.74
Coyote ^{db}	Trial failed	No trial	108	109	105
PBA Jurien ^{db}			105		101
Lawler ^{db}			105	108	104
PBA Bateman ^{db}			105	105	101
Mandelup ^{db}			100	105	100
PBA Barlock ^{db}			96	104	98
PBA Gunyidi ^{db}			103	99	99
Coromup ^{db}			93	93	102
PBA Leeman ^{db}			90	91	103
Wonga			76	87	90
Sowing date	3 May		25 May	1 May	29 Apr
Rainfall J–M (mm)	41		44	48	57
Rainfall A–O (mm)	169		183	386	320

PBA Jurien^{db} was not included in 2021 due to a seed quality issue.
Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the [NVT Long Term Yield Reporter](#)

Lupin variety disease ratings – Western Australia

The following table contains varietal ratings for the predominant diseases of lupin in Western Australia. These ratings are updated annually by crop pathologists and were released in March 2023.

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

Table 3: Lupin disease guide for Western Australia.

Variety	Anthraxnose resistance	Cucumber mosaic virus (CMV)	Phomopsis pod infection	Phomopsis stem infection
Coromup ^{db}	MR	MR	MS	MR
Coyote ^{db}	MRMS	MRMS	MRMS	S
Jenabillup ^{db}	MS	MRMS	MR	MS
Lawler ^{db}	MR	MRMS	MS	MR
Mandelup ^{db}	MRMS	MRMS	S	RMR
PBA Barlock ^{db}	RMR	MR	MR	MR
PBA Bateman ^{db}	MRMS	MR	MS	RMR
PBA Gunyidi ^{db}	MRMS	MRMS	MRMS	RMR
PBA Jurien ^{db}	RMR	MS	MR	RMR
PBA Leeman ^{db}	MRMS	MRMS	MRMS	MR
Wonga	RMR	MR	MR	MR

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

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

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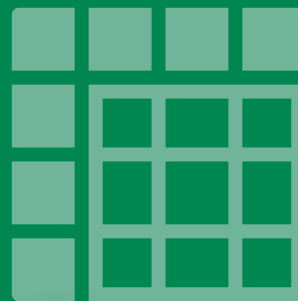
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