



# NVT HARVEST REPORT



MARCH 2024

**Albany  
Western Region**





**Title:** NVT Harvest Report – Albany

**Published:** March 2024

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**Acknowledgements:**

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

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

**PHOTO:** Trevor Garnett, GRDC

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## LEGEND: MEAN VARIETY YIELD PERFORMANCE



LOW

HIGH

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

## DISEASE RATING COLOUR RANGE

VS	SVS	S	MSS	MS	MRMS	MR	RMR	R
----	-----	---	-----	----	------	----	-----	---

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

The disease ratings in the report are current at the time of publication.

Regularly visit [nvt.grdc.com.au/nvt-disease-ratings](http://nvt.grdc.com.au/nvt-disease-ratings) to find the latest NVT disease ratings.

Refer to the latest *Crop Sowing Guide* for further information at  
[nvt.grdc.com.au/resources/crop-sowing-guides](http://nvt.grdc.com.au/resources/crop-sowing-guides)

# INTRODUCTION

*The NVT Harvest Report - Albany* 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 2023 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 recognises that sustaining a project of this nature hinges on the collaboration of growers who willingly provide sites and often lend a hand in trial management on their properties. Equally significant is the partnership with seed companies who supply seed of commercial varieties and experimental lines to the program.

## Interpreting long-term yield results

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

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

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

In the *NVT Harvest Report - Albany*, 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](#).

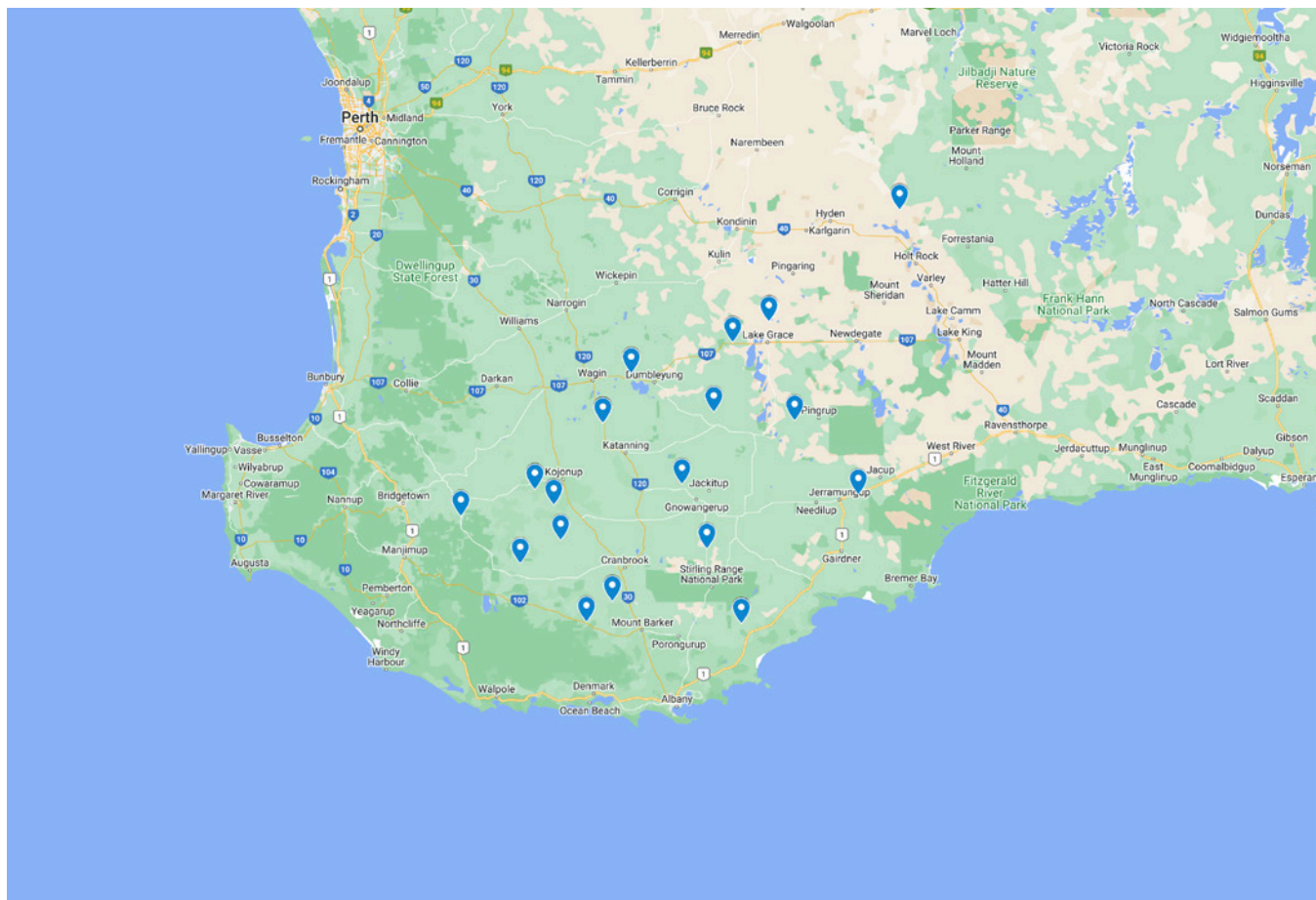
Trials listed as compromised are not suitable for making variety decisions. Results can be found in the [Quarantined trial reports](#).

▶ Refer to the latest *Crop Sowing Guide* for further information at [nvt.grdc.com.au/resources/crop-sowing-guides](https://nvt.grdc.com.au/resources/crop-sowing-guides)

## NVT SITE LOCATIONS – Albany

Figure 1: Locality of NVT trial sites in Albany from 2019 to 2023.

SOURCE: NVT Online



See all NVT trial locations and view trial results at [nvt.grdc.com.au/trial-results](https://nvt.grdc.com.au/trial-results).

# WHEAT

## New wheat varieties

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

Variety	Breeding company	Grain classification	End point royalty* (\$)	Comments supplied by breeding company <sup>1</sup>
Dozer <sup>®</sup> CL Plus	InterGrain		TBC	Variety description not supplied.
Firefly <sup>®</sup>	InterGrain		4.00	Firefly <sup>®</sup> is a high-yielding, mid-slow maturing ANW wheat, setting a new noodle yield benchmark for WA. Firefly <sup>®</sup> is suited to late April through to early May sowings, being similar in maturity to Zen <sup>®</sup> and Calingiri. Firefly <sup>®</sup> has an effective disease resistance profile, including good stripe rust and yellow spot resistance. Firefly <sup>®</sup> offers good physical grain characteristics, including good grain size.
Genie <sup>®</sup>	InterGrain		3.50	Genie <sup>®</sup> is a mid-slow maturing wheat and is an excellent alternative to RockStar <sup>®</sup> in greater than three tonne per hectare yield environments. In these environments, the variety offers medium-high rainfall growers a yield improvement compared with RockStar <sup>®</sup> . Genie <sup>®</sup> , with its slightly later maturity than RockStar <sup>®</sup> and long coleoptile, enables earlier sowing opportunities to be maximised. Genie <sup>®</sup> has an excellent disease resistance package including useful stem rust and stripe rust resistances. It offers good test weight, moderate grain size and has a medium plant height. Preliminary internal data indicates Genie <sup>®</sup> has good sprouting tolerance. Genie <sup>®</sup> has an AH classification in the western and southern zones and an AH classification is expected for the south-eastern and northern zones in 2024.
LRPB Matador <sup>®</sup>	LongReach Plant Breeders		TBC	Variety description not supplied.
Thumper <sup>®</sup>	InterGrain		3.50	Thumper <sup>®</sup> is an exceptionally high-yielding, mid-quick potential AH wheat for WA. It offers a yield improvement within the mid-quick maturity class for low-medium rainfall areas. Thumper <sup>®</sup> has a robust disease resistance package with good yellow spot resistance, useful for wheat-on-wheat rotations, and an excellent stripe rust resistance. Thumper <sup>®</sup> offers good grain size, reducing screenings risk, and has adequate test weight. Thumper <sup>®</sup> is currently classified as APW in the western zone with an AH classification expected soon.
Tomahawk CL Plus <sup>®</sup>	Australian Grain Technologies		4.15	Scepter <sup>®</sup> -type Clearfield <sup>®</sup> variety with increased yield over Scepter <sup>®</sup> . The highest-yielding Clearfield <sup>®</sup> wheat variety in WA, South Australia and Victoria. Tolerant to Clearfield <sup>®</sup> Intervix <sup>®</sup> herbicide. Similar disease resistance profile to Scepter <sup>®</sup> . Similar grain size and test weight as Scepter <sup>®</sup> . Mid-season maturity, similar to Scepter <sup>®</sup> . APW quality classification in South Australia, Victoria, southern NSW, classification for WA pending.

\* EPR amount is ex-GST, <sup>®</sup> denotes Plant Breeder's Rights apply. <sup>1</sup> All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder.

WHEAT

BARLEY

OAT

CANOLA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

Refer to the latest *Crop Sowing Guide* for further information at [nvt.grdc.com.au/resources/crop-sowing-guides](http://nvt.grdc.com.au/resources/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	2019	2020	2021	2022	2023
Mean yield (t/ha)	3.56	3.77	5.21	5.63	
Tomahawk CL Plus <sup>db*</sup>				110	
Vixen <sup>db</sup>	112	112	103	106	
Brumby <sup>db</sup>			108	106	
RockStar <sup>db</sup>	102	107	110	108	
Devil <sup>db</sup>	106	109	108	105	
Scepter <sup>db</sup>	107	109	106	106	
LRPB Matador <sup>db</sup>				106	
Calibre <sup>db</sup>		110	106	102	
Sting <sup>db</sup>	109	110	103	103	
LRPB Havoc <sup>db</sup>	108	107	99	107	
Ninja <sup>db</sup>	101	105	107	105	
Ballista <sup>db</sup>	104		107	99	
Zen <sup>db</sup>	102	101	100	108	
Kinsei <sup>db</sup>	98	102	107	103	
LRPB Avenger <sup>db</sup>	110	105		102	
Sowing date	19 Jun	26 May	27 May	12 May	16 May
Rainfall J–M (mm)	65	34	77	55	17
Rainfall A–O (mm)	246	214	451	384	266

Special thanks to 2023 trial cooperator.

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

**Table 3: Jerramungup main season wheat.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.76	3.25	3.88	4.94	2.78
Tomahawk CL Plus <sup>db*</sup>				115	115
Brumby <sup>db</sup>			112	111	107
RockStar <sup>db</sup>	108	104	114	112	104
Calibre <sup>db</sup>		109	110	108	109
Devil <sup>db</sup>	107	107	111	110	107
Thumper <sup>db</sup>					100
Vixen <sup>db</sup>	107	108	105	108	115
LRPB Matador <sup>db</sup>					107
Scepter <sup>db</sup>	106	106	108	109	108
Sting <sup>db</sup>	106	107	105	106	111
Firefly <sup>db</sup>			111		101
Ballista <sup>db</sup>	103		109	105	101
Ninja <sup>db</sup>	103	103	108	107	101
Kinsei <sup>db</sup>	103	102	110	107	98
Catapult <sup>db</sup>	105	103	108	105	101
Sowing date	21 May	25 May	26 May	12 May	17 May
Rainfall J–M (mm)	49	81	109	76	36
Rainfall A–O (mm)	236	237	469	404	277

Special thanks to 2023 trial cooperator, Trent Parsons.

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

**Table 2: Hyden main season wheat.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.33	2.17	3.91	3.71	2.32
Tomahawk CL Plus <sup>db*</sup>				117	117
Vixen <sup>db</sup>	116	119	115	111	115
Calibre <sup>db</sup>		110	113	108	112
Sting <sup>db</sup>	113	114	111	107	111
Brumby <sup>db</sup>			112	110	110
Scepter <sup>db</sup>	111	110	111	109	110
Devil <sup>db</sup>	111	108	112	109	110
LRPB Avenger <sup>db</sup>	110	116		108	111
LRPB Matador <sup>db</sup>					109
RockStar <sup>db</sup>	108	104	111	111	107
LRPB Havoc <sup>db</sup>	108	115	107	108	107
LRPB Anvil <sup>db</sup> CL Plus*		116	104	107	109
Thumper <sup>db</sup>					108
Firefly <sup>db</sup>			108		105
Ballista <sup>db</sup>	109		108	101	106
Sowing date	22 May	25 May	26 May	25 May	31 May
Rainfall J–M (mm)	7	81	78	89	14
Rainfall A–O (mm)	192	118	288	324	178

Special thanks to 2023 trial cooperator, Mayfield Grains.

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

**Table 4: Kendenup main season wheat.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		4.20		5.34	6.43
Denison <sup>db</sup>		115		108	118
RockStar <sup>db</sup>		111		114	114
Thumper <sup>db</sup>					112
Kinsei <sup>db</sup>		110		110	114
Valiant <sup>db</sup> CL Plus*		113		103	117
Firefly <sup>db</sup>					111
Cutlass <sup>db</sup>		111		104	115
Catapult <sup>db</sup>		109		108	112
Brumby <sup>db</sup>				113	108
Devil <sup>db</sup>		106		113	107
Tomahawk CL Plus <sup>db*</sup>				114	103
Ninja <sup>db</sup>		105		109	107
Calibre <sup>db</sup>		104		112	104
LRPB Matador <sup>db</sup>				110	105
Ballista <sup>db</sup>				110	104
Sowing date	7 May	19 May	27 May	14 May	8 May
Rainfall J–M (mm)	53	63	98	40	40
Rainfall A–O (mm)	329	363	551	481	545

Special thanks to 2023 trial cooperator.

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

WHEAT

BARLEY

OAT

CANOLA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

Table 5: Kojonup main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	3.39	5.94	6.50	5.29	4.73
Tomahawk CL Plus <sup>db</sup> *				109	114
RockStar <sup>db</sup>	112	110	113	110	105
Thumper <sup>db</sup>					105
Brumby <sup>db</sup>			111	109	108
Devil <sup>db</sup>	109	108	111	109	108
Calibre <sup>db</sup>		107	108	109	109
LRPB Matador <sup>db</sup>				107	107
Firefly <sup>db</sup>			111		103
Scepter <sup>db</sup>	108	106	107	106	108
Denison <sup>db</sup>	116	107	107	109	96
Kinsei <sup>db</sup>	106	107	111	107	99
Ballista <sup>db</sup>	99		110	106	105
Vixen <sup>db</sup>	107	104	103	103	114
Catapult <sup>db</sup>	112	105	105	109	99
Ninja <sup>db</sup>	102	106	110	104	103
Sowing date	4 Jun	19 May	28 May	15 May	31 May
Rainfall J–M (mm)	64	35	99	35	8
Rainfall A–O (mm)	316	321	618	452	372

Special thanks to 2023 trial cooperator, DT Stone & Co.

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

Table 7: Stirlings South main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		3.60		5.23	5.61
RockStar <sup>db</sup>	Compromised trial	118	Trial failed	111	112
Tomahawk CL Plus <sup>db</sup> *				110	113
Denison <sup>db</sup>		121		108	109
Brumby <sup>db</sup>				109	112
Devil <sup>db</sup>		111		108	112
Thumper <sup>db</sup>					113
Calibre <sup>db</sup>		109		105	113
Kinsei <sup>db</sup>		113		107	108
Catapult <sup>db</sup>		114		105	109
LRPB Matador <sup>db</sup>				107	109
Valiant <sup>db</sup> CL Plus*		118		105	104
Scepter <sup>db</sup>		107		106	108
Ninja <sup>db</sup>		107		106	106
Cutlass <sup>db</sup>		113		102	105
Ballista <sup>db</sup>				103	108
Sowing date	20 May	25 May	26 May	13 May	17 May
Rainfall J–M (mm)	97	84	112	65	38
Rainfall A–O (mm)	291	295	609	496	407

Special thanks to 2023 trial cooperator.

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

Table 6: Lake Grace main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.09	1.82	5.41	4.79	3.53
Tomahawk CL Plus <sup>db</sup> *				114	115
Vixen <sup>db</sup>	119	120	110	111	115
Calibre <sup>db</sup>		116	108	112	110
LRPB Avenger <sup>db</sup>	119	116		112	112
Sting <sup>db</sup>	117	116	108	109	112
LRPB Anvil <sup>db</sup> CL Plus*		113	102	111	111
Devil <sup>db</sup>	111	113	108	109	108
Brumby <sup>db</sup>			108	109	107
Scepter <sup>db</sup>	110	112	107	108	108
LRPB Matador <sup>db</sup>					107
LRPB Havoc <sup>db</sup>	107	110	106	103	109
Thumper <sup>db</sup>					105
RockStar <sup>db</sup>	102	107	106	108	104
Corack <sup>db</sup>	109	107			
Ballista <sup>db</sup>	108		106	102	105
Sowing date	25 May	20 May	25 May	12 May	8 May
Rainfall J–M (mm)	7	52	69	42	25
Rainfall A–O (mm)	182	183	388	303	208

Special thanks to 2023 trial cooperator, Grant Marshall.

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

Table 8: Wagin main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	3.31	3.03	5.09	3.52	2.11
Tomahawk CL Plus <sup>db</sup> *				116	120
Calibre <sup>db</sup>		109	110	114	113
Brumby <sup>db</sup>			111	114	111
Vixen <sup>db</sup>	112	114	105	109	118
Devil <sup>db</sup>	107	109	110	113	111
Thumper <sup>db</sup>					105
RockStar <sup>db</sup>	103	106	112	114	107
LRPB Matador <sup>db</sup>				111	110
Sting <sup>db</sup>	110	111	105	108	114
Scepter <sup>db</sup>	107	109	107	110	111
Ballista <sup>db</sup>	105		108	109	105
Firefly <sup>db</sup>			109		104
LRPB Avenger <sup>db</sup>	110	108		104	115
Ninja <sup>db</sup>	102	105	107	107	103
Catapult <sup>db</sup>	101	99	107	109	102
Sowing date	7 Jun	25 May	28 May	28 May	31 May
Rainfall J–M (mm)	27	66	63	26	26
Rainfall A–O (mm)	302	177	411	308	220

Special thanks to 2023 trial cooperator, Paul Ward.

\* herbicide-tolerant variety. 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	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.51	2.13	4.74	3.29	3.21
RockStar <sup>db</sup>	120	121	122	114	113
Denison <sup>db</sup>		117	115	112	117
Catapult <sup>db</sup>	118	123	115	104	116
Kinsei <sup>db</sup>	116	121	115	111	110
Valiant <sup>db</sup> CL Plus*			114	115	109
IGW6755					105
Brumby <sup>db</sup>					111
Cutlass <sup>db</sup>	108	107	108	105	106
Stockade <sup>db</sup>				114	100
Sheriff CL Plus <sup>db*</sup>	103	117	103	89	98
EG Titanium	99	105	101	102	94
Magenta <sup>db</sup>	101	104	102	94	99
Yitpi	98	107	99	98	93
DS Pascal <sup>db</sup>	95	99	99	97	89
EG Jet <sup>db</sup>	93	111	92	87	85
Sowing date	16 Apr	30 Apr	23 Apr	12 Apr	26 Apr
Rainfall J–M (mm)	7	81	78	89	14
Rainfall A–O (mm)	192	118	288	324	178
Irrigation A–O (mm)					10

Special thanks to 2023 trial cooperator, Mayfield Grains.

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

Table 11: Stirlings South early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)			5.30	5.30	5.86
IGW6755	Compromised trial	Compromised trial			102
Stockade <sup>db</sup>				116	101
Denison <sup>db</sup>			111	109	107
Valiant <sup>db</sup> CL Plus*			109	112	106
RockStar <sup>db</sup>			112	111	103
Genie <sup>db</sup>					107
Severn <sup>db</sup>			108	110	101
Kinsei <sup>db</sup>			106	107	105
Cutlass <sup>db</sup>			105	104	102
Catapult <sup>db</sup>			105	101	104
Illabo <sup>db</sup>			101	103	99
Longsword <sup>db</sup>			98	96	104
Brumby <sup>db</sup>					104
EG Titanium			95	100	99
DS Bennett <sup>db</sup>			106	102	87
Sowing date	12 Apr	2 May	21 Apr	28 Apr	19 Apr
Rainfall J–M (mm)	97	84	112	65	38
Rainfall A–O (mm)	291	295	609	496	407
Irrigation A–O (mm)		10			

Special thanks to 2023 trial cooperator.

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

Table 10: Jerramungup early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)			4.66	3.95	3.01
IGW6755	No trial	Compromised trial			96
Denison <sup>db</sup>			115	108	124
RockStar <sup>db</sup>			131	100	108
Valiant <sup>db</sup> CL Plus*			117	111	111
Stockade <sup>db</sup>				126	93
Kinsei <sup>db</sup>			118	100	112
Catapult <sup>db</sup>			116	91	120
Cutlass <sup>db</sup>			109	103	107
Brumby <sup>db</sup>					117
Longsword <sup>db</sup>			72	115	117
Illabo <sup>db</sup>			84	118	92
EG Titanium			103	95	90
Magenta <sup>db</sup>			105	85	93
Yitpi			101	88	90
DS Pascal <sup>db</sup>			105	89	78
Sowing date		1 May	28 Apr	14 Apr	13 Apr
Rainfall J–M (mm)		81	109	76	36
Rainfall A–O (mm)		237	469	404	277
Irrigation A–O (mm)		10			

Special thanks to 2023 trial cooperator, Trent Parsons.

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

WHEAT

BARLEY

OAT

CANOLA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

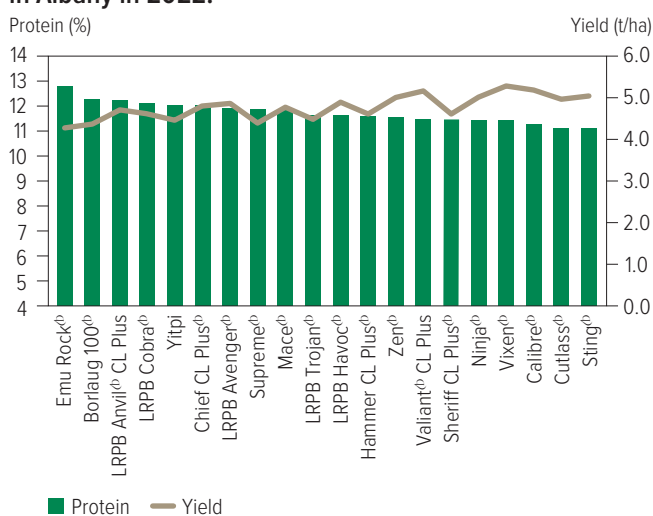
## Wheat variety quality – Albany

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.

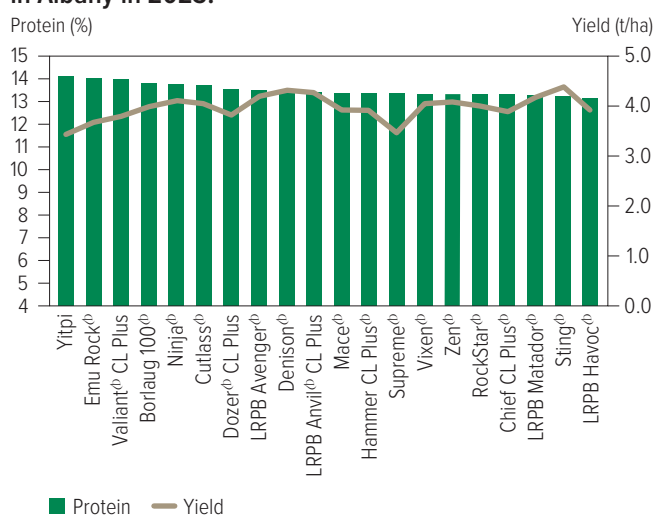
The following figures show the grain quality trends as histograms from 2022 and 2023 NVT averaged for trials in the Albany region. Only the varieties evaluated at every site are included. These are plotted in order of performance, up to a maximum of 20.

### Protein and yield comparisons

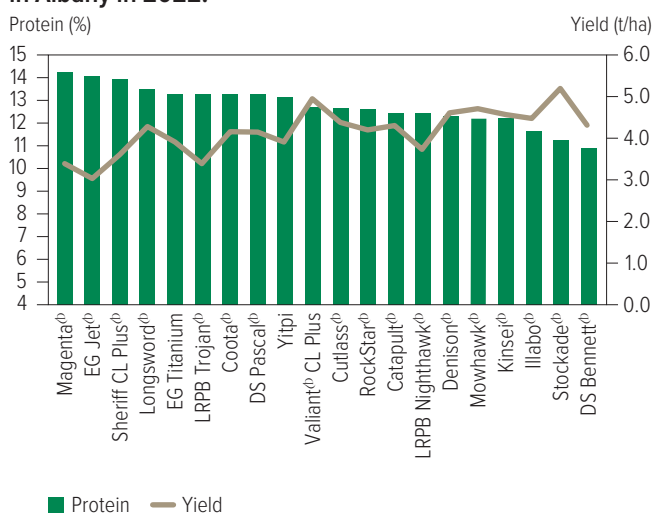
**Figure 1: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from eight NVT sites in Albany in 2022.**



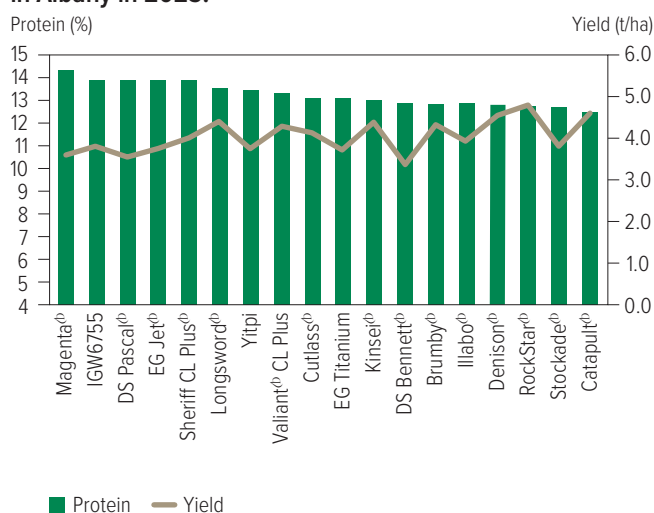
**Figure 2: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from seven NVT sites in Albany in 2023.**



**Figure 3: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from three NVT sites in Albany in 2022.**



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



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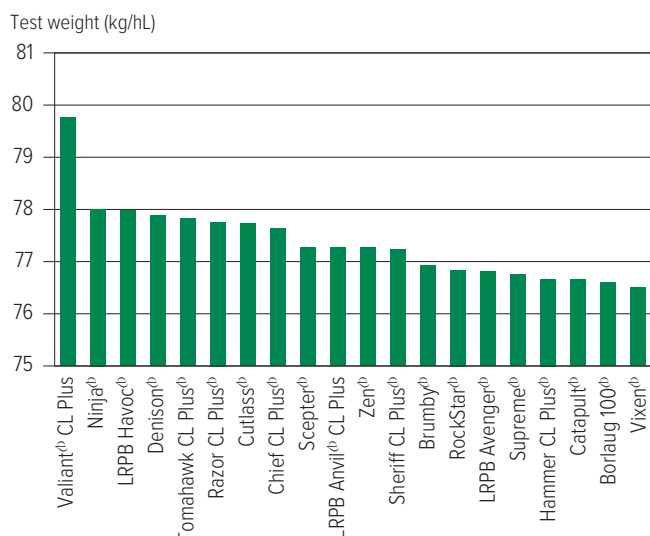
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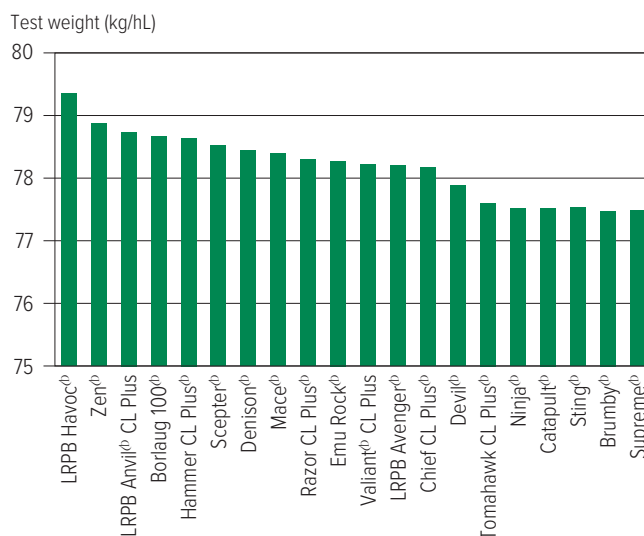
LUPIN

## Test weight comparisons

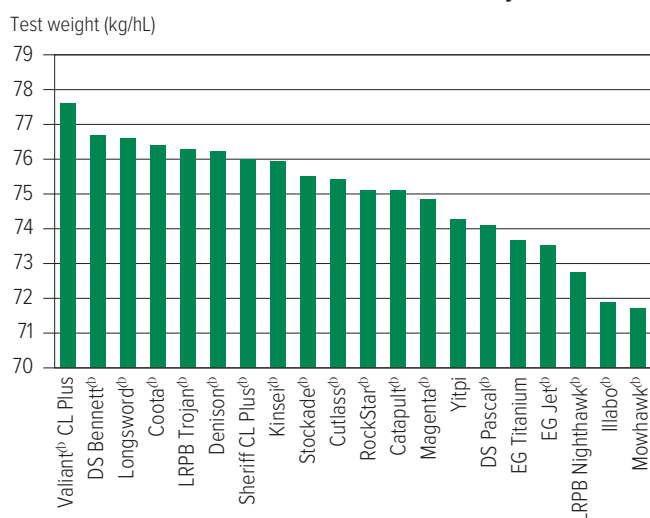
**Figure 5: Test weight (kg/hL) comparisons for main season wheat varieties from eight NVT sites in Albany in 2022.**



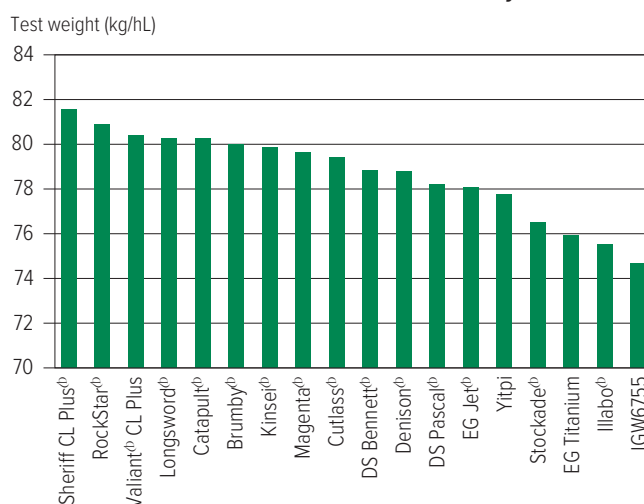
**Figure 6: Test weight (kg/hL) comparisons for main season wheat varieties from seven NVT sites in Albany in 2023.**



**Figure 7: Test weight (kg/hL) comparisons for early season wheat varieties from three NVT sites in Albany in 2022.**



**Figure 8: Test weight (kg/hL) comparisons for early season wheat varieties from three NVT sites in Albany in 2023.**



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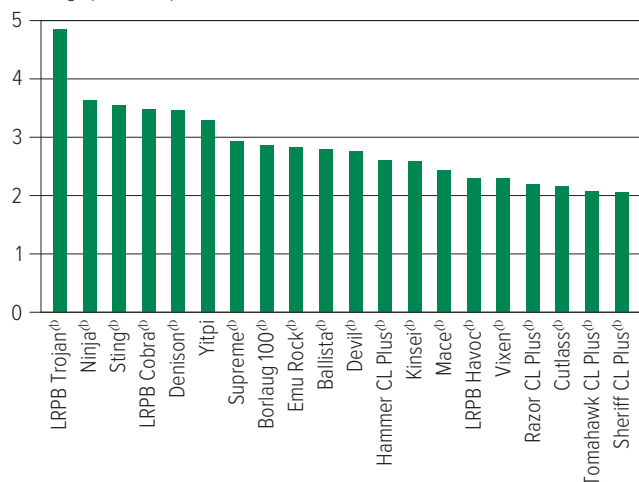
LUPIN



## Screenings comparisons

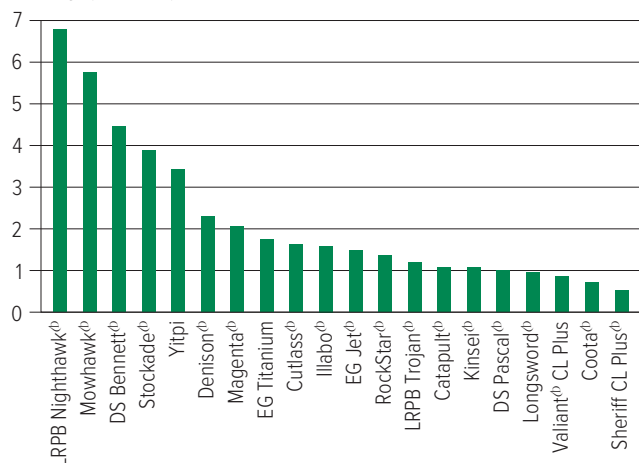
**Figure 9: Screenings (<2.0mm) comparisons for main season wheat varieties from eight NVT sites in Albany in 2022.**

Screenings (%<2.0mm)



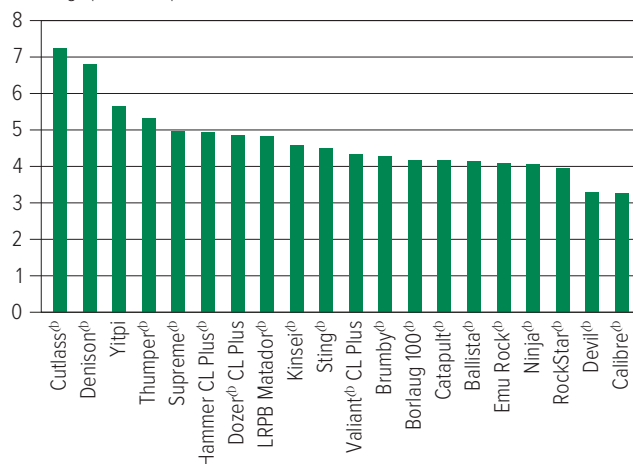
**Figure 11: Screenings (<2.0mm) comparisons for early season wheat varieties from three NVT sites in Albany in 2022.**

Screenings (%<2.0mm)



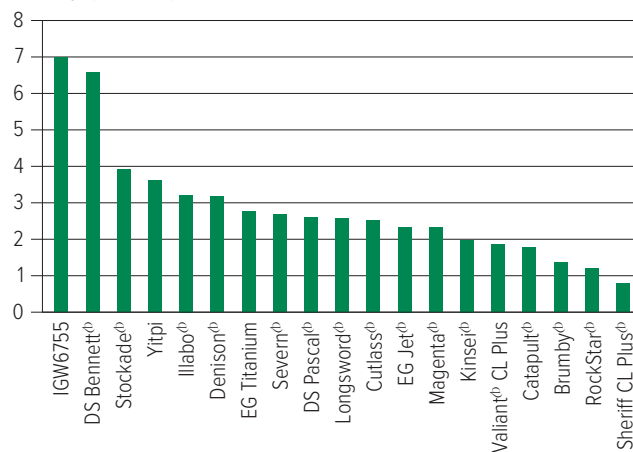
**Figure 10: Screenings (<2.0mm) comparisons for main season wheat varieties from seven NVT sites in Albany in 2023.**

Screenings (%<2.0mm)



**Figure 12: Screenings (<2.0mm) comparisons for early season wheat varieties from three NVT sites in Albany in 2023.**

Screenings (%<2.0mm)



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## Wheat variety disease ratings – Western Australia

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

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 quasitereoides</i> )	CCN	Crown rot
Ballista <sup>db</sup>	MS	MS	MRMS	MR	RMR	S	S	SVS	S		MRMS	S
Boree <sup>db</sup>	MRMS	MS	MRMS	MR	MR	S	S	S	S		MSS	S
Borlaug 100 <sup>db</sup>	MRMS	MRMS	MRMS	MR	RMR	MR	S	MS	S		MS	MSS
Brumby <sup>db</sup>	MRMS	MRMS	MS	MR	RMR	SVS	R	MSS (P)	MRMS	MS (P)	MRMS	S
Calibre <sup>db</sup>	MRMS	MSS	MSS	MR	RMR	S	MSS	S	S	MRMS (P)	MRMS	S
Catapult <sup>db</sup>	MRMS	MRMS	MS	MR	RMR	S	S	MSS	S	MRMS	R	MSS
Chief CL Plus <sup>db</sup>	MRMS	MS	MRMS	MR	S	MR	S	MSS	MRMS	MRMS	MS	MSS
Coota <sup>db</sup>	MSS	MRMS	MS	RMR	RMR	MR	S	MSS	MR		MR	MSS
Cutlass <sup>db</sup>	MSS	MRMS	MRMS	R	R	RMR	S	MSS	MSS	MS	MR	S
Denison <sup>db</sup>	MRMS	MR	MRMS	MS	MRMS	S	S	MS	S	MRMS (P)	MS	MSS
Devil <sup>db</sup>	MRMS	MRMS	MS	S	MR	SVS	SVS	SVS	MSS	MRMS	MSS	MSS
Dozer <sup>db</sup> CL Plus	MS	MRMS (P)	MSS (P)	MS	MRMS	MSS	MSS (P)	MSS (P)	MRMS		MS (P)	S
DS Bennett <sup>db</sup>	MRMS	MRMS	MR	MS	RMR	SVS	RMR	MR	S		S	VS
DS Pascal <sup>db</sup>	MS	MRMS	MRMS	MSS	RMR	MRMS#	RMR	MS	S		S	S
EG Jet <sup>db</sup>	MRMS	MSS		S	RMR	S	MS	MSS	S		MRMS	S
EG Titanium	MSS	MRMS		MS	RMR	MS	MSS	MSS	MSS		R	MSS
EGA Wedgetail <sup>db</sup>	MSS	MRMS	MRMS	MRMS	MRMS	MSS	MRMS	MRMS	S		S	S
Emu Rock <sup>db</sup>	MS	S	MS	MS	MRMS	SVS	MSS	S	MSS	MS (P)	S	MSS
Firefly <sup>db</sup>	MRMS	MRMS (P)	MSS (P)	S	MS	MSS	MSS (P)	MSS (P)	MS		S (P)	S
Genie <sup>db</sup>	MRMS (P)			MS (P)	MR (P)	S (P)						
Hammer CL Plus <sup>db</sup>	MRMS	MRMS	MRMS	MR	RMR	S	S	MSS	MSS	MS (P)	MRMS	MSS
IGW6755	MRMS	MRMS	MR	MRMS	MRMS	MS	S	MRMS	MSS		MSS	S
Illabo <sup>db</sup>	MS	MR	MR	MRMS	RMR	S	R	MR	MSS	RMR	MRMS	S
Jillaroo <sup>db</sup>	MS	MS	MS	MS	MR	S	S	MRMS (P)	S		MS	S
Kinsei <sup>db</sup>	MS	MRMS	MRMS	MSS	MRMS	MSS	S	MS	S	S	MSS	MSS
Longsword <sup>db</sup>	MRMS	MRMS	MRMS	MR	RMR	MS	MS	MRMS	MRMS		MRMS	MSS
LRPB Anvil <sup>db</sup> CL Plus	MSS	MSS	MSS	MR	RMR	SVS	MSS	SVS	MSS	S (P)	MS	MSS
LRPB Avenger <sup>db</sup>	MS	MSS	MS	MS	MRMS	S	S	S	MSS	MS (P)	MRMS	S
LRPB Havoc <sup>db</sup>	MRMS	MS	MS	S	MR	S	MS	MRMS	S	MRMS	S	MSS
LRPB Kittyhawk <sup>db</sup>	MRMS	MR (P)		MRMS (S)	RMR	MR	MRMS	MR	S		S	SVS
LRPB Matador <sup>db</sup>	MRMS	MRMS (P)	MSS (P)	MS	RMR	MSS	MS (P)	MSS (P)	S		MS (P)	S
LRPB Nighthawk <sup>db</sup>	MS	MRMS	MRMS	RMR	RMR	MSS	MSS	MR	MSS	MRMS (P)	MS	MSS
LRPB Nyala <sup>db</sup>	MS	MSS	MR	SVS	RMR	S	R	SVS	S		MSS	MSS
LRPB Oryx <sup>db</sup>	MSS	S	MSS	MR	RMR	RMR#	RMR	SVS	MSS	MSS (P)	S	MSS
LRPB Trojan <sup>db</sup>	MSS	MS	MS	MRMS	MR	MR#	S	S	MSS	MS (P)	MS	MS
Mace <sup>db</sup>	MRMS	MS	MS	MRMS	RMR	S	MSS	S	MS	MRMS	MRMS	S
Magenta <sup>db</sup>	MRMS	MRMS	MS	MR	MS	RMR	MRMS	MS	MSS	MSS	S	MSS
Ninja <sup>db</sup>	MRMS	MRMS	MS	S	MS	S	S	MSS	S	S	MS	S
Razor CL Plus <sup>db</sup>	MSS	MS	MS	MRMS	RMR	S	MSS	SVS	S		MR	S

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Table 12: Wheat disease guide for Western Australia (continued).

Variety	Yellow spot	Nodorum blotch (leaf)	Nodorum blotch (glume)	Stem rust	Stripe rust (west coast resistance)	Leaf rust	Powdery mildew	<i>Septoria tritici</i> blotch	RLN resistance ( <i>Pratylenchus neglectus</i> )	RLN resistance ( <i>Pratylenchus quasitereoides</i> )	CCN	Crown rot
RGT Accroc <sup>db</sup>	MRMS			MS	RMR	SVS	RMR (P)	MRMS	MS		S	SVS
RGT Zanzibar	MS	MR		VS	RMR	SVS	R	MR	S		MSS	S
RockStar <sup>db</sup>	MRMS	MRMS	MRMS	MRMS	RMR	S	MSS	S	MRMS	MS	MSS	S
Scepter <sup>db</sup>	MRMS	MRMS	MSS	MRMS	RMR	MSS	S	S	S	MS	MRMS	MSS
Severn <sup>db</sup>	MRMS	MR	MR (P)	MS	R	MRMS	R	MS (P)	S		MSS (P)	S
Sheriff CL Plus <sup>db</sup>	MRMS	MRMS	MRMS	MS	MRMS	SVS	SVS	S	MRMS	MRMS	MS	S
Sting <sup>db</sup>	MRMS	MS	MS	MRMS	MRMS	SVS	MSS	S	MS	MSS (P)	MS	MSS
Stockade <sup>db</sup>	MRMS	MRMS	MR	MS	RMR	MR	SVS	MS	S		MRMS	S
Supreme <sup>db</sup>	MS	S		MRMS	RMR	MR	MS	MSS	MSS		S	MSS
Thumper <sup>db</sup>	MS (P)			MS (P)	MR (P)	S (P)						
Tomahawk CL Plus <sup>db</sup>	MRMS	MRMS (P)	S (P)	MR	RMR	S	S (P)	MSS (P)	S		MRMS (P)	S
Valiant <sup>db</sup> CL Plus	MRMS	MR	MRMS	MR	R	S	SVS	MRMS	S	MSS (P)	MSS (P)	MSS
Vixen <sup>db</sup>	MRMS	MS	MSS	MRMS	MRMS	SVS	SVS	MSS	MRMS	MSS (P)	MSS	S
Wedin	MSS (P)	MSS		RMR		MSS (P)	S	MR	MSS			
Willaura <sup>db</sup>	MS	MRMS	MS	MR	R	MRMS	SVS	MRMS	MSS		MS	S
Yitpi	SVS	MS	MRMS	S	MRMS	S	MS	MS	MSS	MS	MR	S
Zen <sup>db</sup>	MRMS	MS	MRMS	S	MR	S	S	S	MRMS	MRMS	S	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.

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# BARLEY

## New barley varieties

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

Variety	Breeding company	Grain classification	End point royalty* (\$)	Comments supplied by breeding company <sup>1</sup>
Neo <sup>®</sup> CL	InterGrain	Under malt evaluation	4.25	Neo <sup>®</sup> CL is a mid-maturing, imidazolinone-tolerant spring barley, ideally suited to medium-high rainfall environments. Neo <sup>®</sup> CL provides an outstanding disease resistance profile with excellent resistance to cereal cyst nematode, powdery mildew and the spot form of net blotch, and useful resistance to the net form of net blotch and leaf scald. Neo <sup>®</sup> CL has a semi-prostrate early growth habit, medium plant height, good tolerance to lodging, good grain retention and tolerance to head loss, and very good levels of grain plumpness. Neo <sup>®</sup> CL has been accepted into Grains Australia's malting accreditation program with earliest potential final accreditation in March 2025.
Spinnaker <sup>®</sup>	Secobra Recherches		TBC	Released under code name SCA21-Y003.

\* EPR amount is ex-GST, <sup>®</sup> denotes Plant Breeder's Rights apply. <sup>1</sup> All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder.

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Refer to the latest *Crop Sowing Guide* for further information at [nvt.grdc.com.au/resources/crop-sowing-guides](http://nvt.grdc.com.au/resources/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	2019	2020	2021	2022	2023
Mean yield (t/ha)	5.14	7.03	7.60	6.52	5.38
Neo <sup>db</sup> CL*					104
Cyclops <sup>db</sup>		113	113	103	103
Combat <sup>db</sup>			109	115	114
Titan AX <sup>db*</sup>				108	105
Leabrook <sup>db</sup>	99	107	112	103	103
Laperouse <sup>db</sup>	101	109	108	99	101
RGT Planet <sup>db</sup>	105	99	107	108	100
Minotaur <sup>db</sup>		102	104	105	104
Beast <sup>db</sup>	100	108	106	98	103
Zena <sup>db</sup> CL*			106	109	99
Spinnaker <sup>db</sup>			103	107	101
Rosalind <sup>db</sup>	106	101	99	100	102
Fandaga <sup>db</sup>				106	101
Compass <sup>db</sup>	96	104	105	97	101
Maximus <sup>db</sup> CL*	104	108	97	91	99
Sowing date	27 May	19 May	2 Jun	5 Jun	8 May
Rainfall J–M (mm)	60	61	95	29	30
Rainfall A–O (mm)	341	498	581	483	445

Special thanks to 2023 trial cooperator, Richard Coole.

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

**Table 2: Gnowangerup main season barley.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		4.67	5.12	4.89	1.84
Beast <sup>db</sup>	No trial	105	101	111	134
Cyclops <sup>db</sup>		107	103	113	118
Combat <sup>db</sup>			114	109	81
Neo <sup>db</sup> CL*					94
Leabrook <sup>db</sup>		102	108	105	113
Maximus <sup>db</sup> CL*		105	88	112	139
Laperouse <sup>db</sup>		103	100	110	113
Rosalind <sup>db</sup>		108	97	103	127
Compass <sup>db</sup>		99	104	101	129
Minotaur <sup>db</sup>		106	102	107	98
Titan AX <sup>db*</sup>				102	91
La Trobe <sup>db</sup>		100	95	100	129
Commodus <sup>db</sup> CL*		98	99	100	121
Spartacus CL <sup>db*</sup>		100	87	105	136
Fathom <sup>db</sup>		100	103	103	93
Sowing date		26 May	27 May	12 May	16 May
Rainfall J–M (mm)		34	77	55	17
Rainfall A–O (mm)		214	435	384	266

Special thanks to 2023 trial cooperator.

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

**Table 3: Hyden main season barley.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.18	2.78	3.78	3.28	2.99
Beast <sup>db</sup>	125	122	118	101	121
Compass <sup>db</sup>	116	109	116	101	121
Rosalind <sup>db</sup>	126	116	109	110	106
Cyclops <sup>db</sup>		120	114	96	111
Maximus <sup>db</sup> CL*	123	120	108	105	106
Combat <sup>db</sup>			110	98	116
Leabrook <sup>db</sup>	114	111	114	96	117
La Trobe <sup>db</sup>	115	106	106	106	106
Laperouse <sup>db</sup>	112	113	108	96	108
Commodus <sup>db</sup> CL*		104	107	101	112
Spartacus CL <sup>db*</sup>	115	109	103	106	101
Neo <sup>db</sup> CL*					97
Minotaur <sup>db</sup>		112	104	100	103
Titan AX <sup>db*</sup>			109	93	114
Fathom <sup>db</sup>	91	107	103	101	114
Sowing date	22 May	25 May	26 May	25 May	31 May
Rainfall J–M (mm)	7	81	78	89	14
Rainfall A–O (mm)	192	118	288	324	178

Special thanks to 2023 trial cooperator, Mayfield Grains.

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

**Table 4: Jerramungup main season barley.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.78	3.96	4.21	4.70	3.80
Cyclops <sup>db</sup>		107	112	113	114
Neo <sup>db</sup> CL*					106
Beast <sup>db</sup>	108	108	104	106	114
Combat <sup>db</sup>			110	120	96
Laperouse <sup>db</sup>	106	103	107	109	110
Maximus <sup>db</sup> CL*	115	99	97	107	117
Leabrook <sup>db</sup>	102	109	109	104	106
Minotaur <sup>db</sup>		104	105	111	103
Rosalind <sup>db</sup>	111	104	97	102	109
Titan AX <sup>db*</sup>			111	104	98
Compass <sup>db</sup>	102	107	101	95	107
Spartacus CL <sup>db*</sup>	112	95	93	98	113
Spinnaker <sup>db</sup>				100	98
La Trobe <sup>db</sup>	108	100	94	94	108
Commodus <sup>db</sup> CL*		102	98	95	104
Sowing date	21 May	25 May	26 May	12 May	17 May
Rainfall J–M (mm)	49	81	109	76	36
Rainfall A–O (mm)	236	237	469	404	277

Special thanks to 2023 trial cooperator, Trent Parsons.

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

Table 5: Kendenup main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	4.61			5.81	5.08
Neo <sup>db</sup> CL*		Trial results below standard	Trial failed		103
Cyclops <sup>db</sup>				108	111
Combat <sup>db</sup>				109	106
Laperouse <sup>db</sup>	103			105	109
Minotaur <sup>db</sup>				108	101
Leabrook <sup>db</sup>	102			97	114
Beast <sup>db</sup>	100			101	110
Maximus <sup>db</sup> CL*	102			109	98
Titan AX <sup>db*</sup>				95	114
Rosalind <sup>db</sup>	106			106	94
Spinnaker <sup>db</sup>				103	94
RGT Planet <sup>db</sup>	108			100	98
Fandaga <sup>db</sup>				101	97
Zena <sup>db</sup> CL*				98	96
Spartacus CL <sup>db*</sup>	97			103	95
Sowing date	7 May	19 May	27 May	14 May	8 May
Rainfall J–M (mm)	53	63	98	40	40
Rainfall A–O (mm)	289	363	551	481	545

Special thanks to 2023 trial cooperator.

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

Table 7: Lake Grace main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.96	2.20	4.78	4.31	3.55
Beast <sup>db</sup>	116	117	108	115	113
Cyclops <sup>db</sup>		113	110	121	111
Leabrook <sup>db</sup>	98	112	106	116	113
Combat <sup>db</sup>			106	110	114
Compass <sup>db</sup>	107	114	104	110	111
Laperouse <sup>db</sup>	101	110	106	115	108
Maximus <sup>db</sup> CL*	123	111	107	107	102
Titan AX <sup>db*</sup>			103	114	112
Neo <sup>db</sup> CL*					101
Rosalind <sup>db</sup>	125	106	106	98	99
Minotaur <sup>db</sup>		103	104	106	104
Commodus <sup>db</sup> CL*		108	101	103	105
Spartacus CL <sup>db*</sup>	117	106	103	100	97
Fathom <sup>db</sup>	110	102	99	99	109
La Trobe <sup>db</sup>	114	106	102	98	99
Sowing date	25 May	20 May	25 May	12 May	9 May
Rainfall J–M (mm)	7	52	69	42	25
Rainfall A–O (mm)	182	183	388	303	208

Special thanks to 2023 trial cooperator, Grant Marshall.

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

Table 6: Kojonup main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	3.84	6.08	6.03	6.98	5.32
Neo <sup>db</sup> CL*					101
Cyclops <sup>db</sup>		111	106	105	109
Combat <sup>db</sup>			103	113	108
Leabrook <sup>db</sup>	105	102	108	102	110
Laperouse <sup>db</sup>	110	107	103	102	106
Beast <sup>db</sup>	111	102	101	101	112
Titan AX <sup>db*</sup>				103	108
Minotaur <sup>db</sup>		106	101	106	102
Maximus <sup>db</sup> CL*	117	105	94	100	104
Rosalind <sup>db</sup>	110	102	98	102	102
Spinnaker <sup>db</sup>			105	103	96
RGT Planet <sup>db</sup>	96	104	108	103	93
Compass <sup>db</sup>	104	94	103	97	111
Zena <sup>db</sup> CL*			108	102	92
Fandaga <sup>db</sup>				103	96
Sowing date	4 Jun	19 May	28 May	15 May	31 May
Rainfall J–M (mm)	64	35	98	35	8
Rainfall A–O (mm)	316	321	605	452	372

Special thanks to 2023 trial cooperator, DT Stone &amp; Co.

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

Table 8: Stirlings South main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	4.32	4.32		4.75	4.07
Combat <sup>db</sup>			Trial failed	124	125
Neo <sup>db</sup> CL*					111
Cyclops <sup>db</sup>		116		123	110
Minotaur <sup>db</sup>		108		117	109
Laperouse <sup>db</sup>	107	110		117	105
Beast <sup>db</sup>	101	111		107	109
Maximus <sup>db</sup> CL*	109	104		113	98
Leabrook <sup>db</sup>	98	111		104	110
Titan AX <sup>db*</sup>				104	112
Rosalind <sup>db</sup>	106	102		99	104
Spinnaker <sup>db</sup>				97	102
RGT Planet <sup>db</sup>	105	100		99	100
Fathom <sup>db</sup>	93	101		101	109
Fandaga <sup>db</sup>				99	102
Zena <sup>db</sup> CL*				93	99
Sowing date	20 May	25 May	26 May	13 May	17 May
Rainfall J–M (mm)	97	84	112	65	38
Rainfall A–O (mm)	325	295	609	496	407

Special thanks to 2023 trial cooperator.

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

WHEAT

BARLEY

OAT

CANOLA

FABA BEAN

FIELD PEA

LENTIL

LUPIN



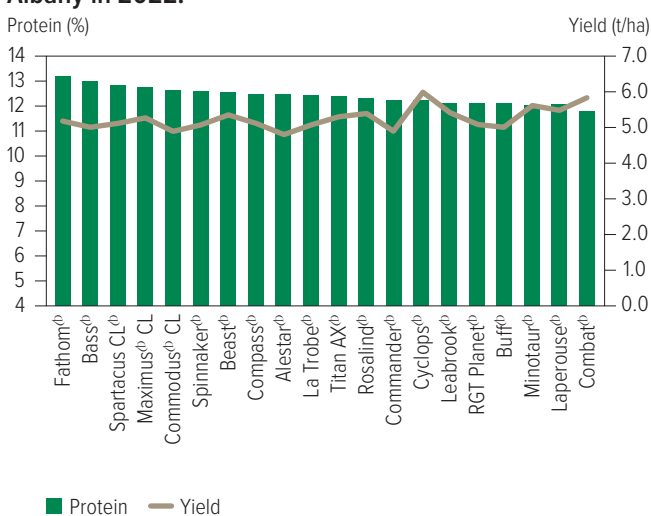
## Barley variety quality – Albany

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.

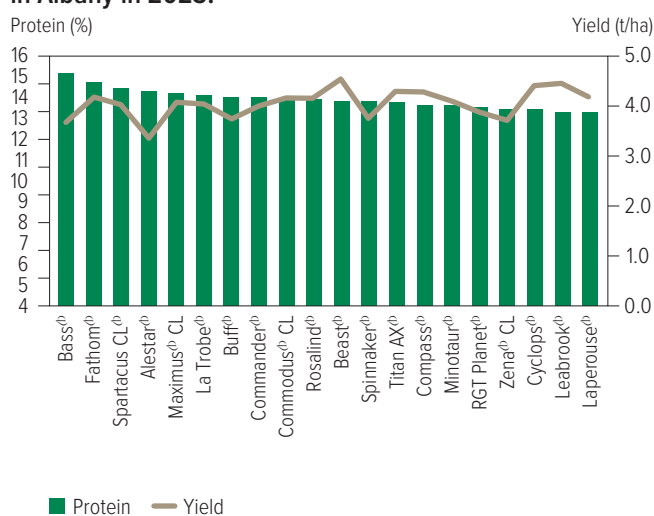
The following figures show the grain quality trends as histograms from 2022 and 2023 NVT averaged for trials in the Albany region. Only the varieties evaluated at every site are included. These are plotted in order of performance, up to a maximum of 20.

### Protein and yield comparisons

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

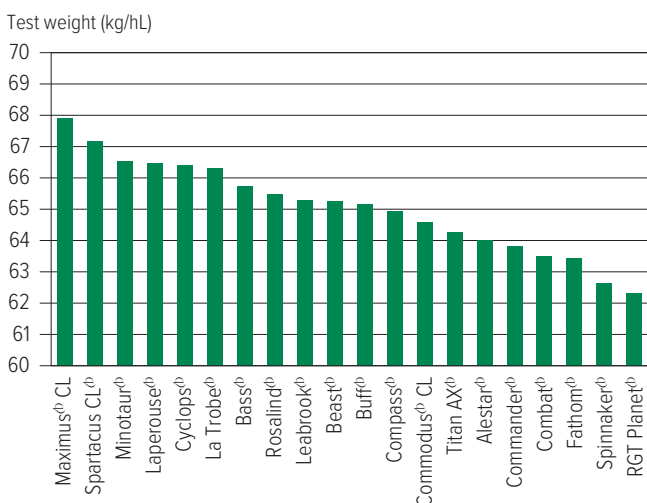


**Figure 2: Protein (%) and yield (t/ha) comparisons for main season barley varieties from eight NVT sites in Albany in 2023.**

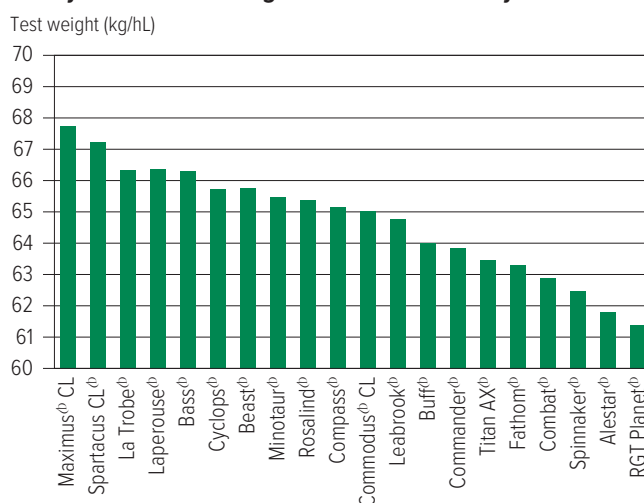


### Test weight comparisons

**Figure 3: Test weight (kg/hL) comparisons for main season barley varieties from eight NVT sites in Albany in 2022.**



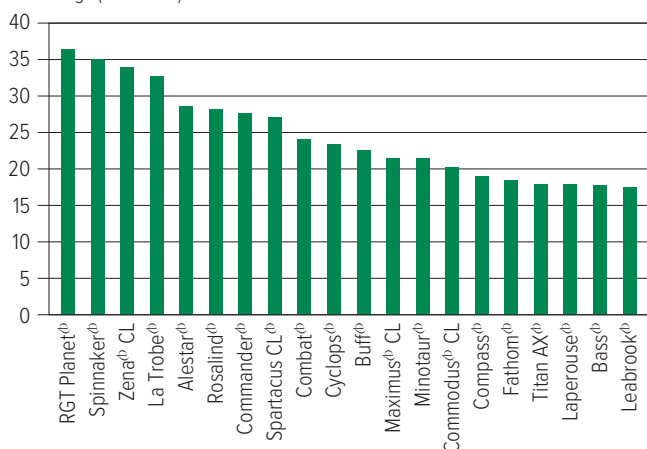
**Figure 4: Test weight (kg/hL) comparisons for main season barley varieties from eight NVT sites in Albany in 2023.**



## Screenings comparisons

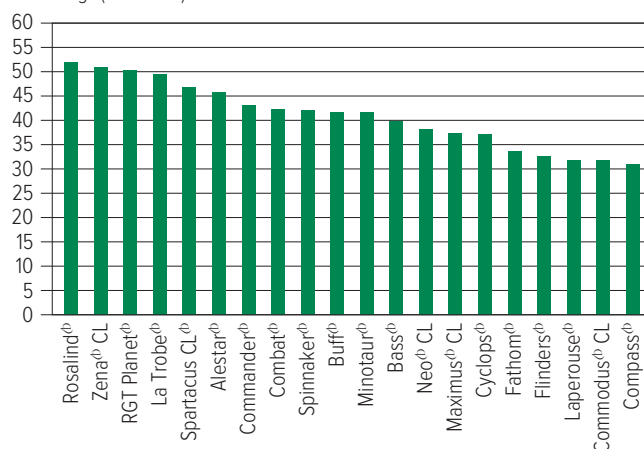
**Figure 5: Screenings (<2.5mm) comparisons for main season barley varieties from eight NVT sites in Albany in 2022.**

Screenings (%<2.5mm)



**Figure 6: Screenings (<2.5mm) comparisons for main season barley varieties from eight NVT sites in Albany in 2023.**

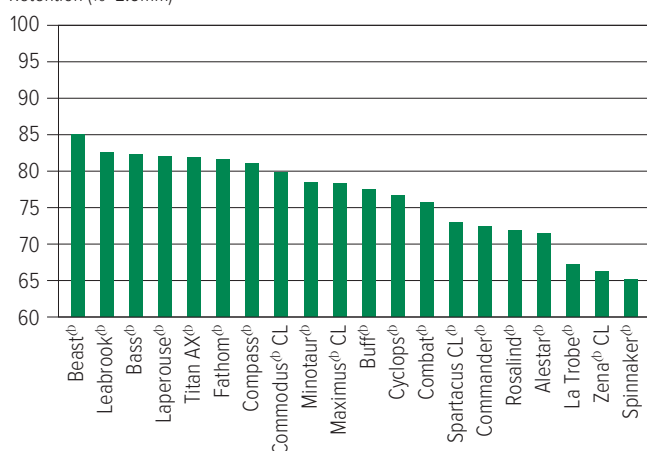
Screenings (%<2.5mm)



## Retention comparisons

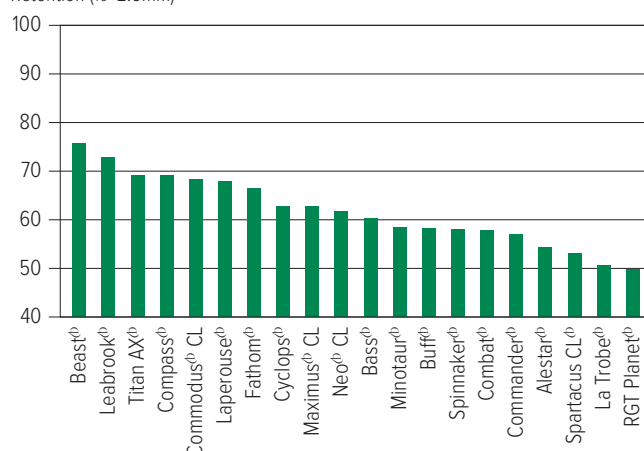
**Figure 7: Retention (>2.5mm) comparisons for main season barley varieties from eight NVT sites in Albany in 2022.**

Retention (%>2.5mm)



**Figure 8: Retention (>2.5mm) comparisons for main season barley varieties from eight NVT sites in Albany in 2023.**

Retention (%>2.5mm)



WHEAT

BARLEY

OAT

CANOLA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

## Barley variety disease ratings – Western Australia

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

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 resistance	Barley yellow dwarf virus	RLN resistance ( <i>Pratylenchus neglectus</i> )	RLN resistance ( <i>Pratylenchus quasitereoides</i> )	CCN	Ramularia
Alestar <sup>db</sup>	S		S	RMR	MS	S	MRMS	MR		R <sup>a</sup> (P)	SVS
Banks <sup>db</sup>	SVS		MSS	MR-MS	S	MSS	MRMS	MS	MSS	S	VS
Bass <sup>db</sup>	MRMS-MS		MSS	MSS	SVS	MSS	MRMS	MS	MSS	S	VS
Beast <sup>db</sup>	S		MSS	RMR	S	S	MSS	MRMS	MSS	MR	SVS
Bottler <sup>db</sup>	S		MSS	RMR	MS	SVS	MS	MS			SVS
Buff <sup>db</sup>	MS		S	MSS	S	S	MRMS	MRMS	S		SVS
Combat <sup>db</sup>	S		MRMS	R	MRMS	S	MRMS-MS	MRMS	S (P)	MR	SVS
Commander <sup>db</sup>	MS		MSS	RMR	MSS	S	MRMS-MS	MRMS		R	SVS
Commodus <sup>db</sup> CL	MSS		MSS	RMR	S	S	MRMS-MS	MRMS	MS	R	SVS
Compass <sup>db</sup>	MS		MSS	R	S	MSS	MSS	MRMS	S	R	SVS
Cyclops <sup>db</sup>	MRMS		MSS	R	S	MSS	S	MRMS	MSS (P)	S	SVS
Fairview <sup>db</sup>	S		MSS	R	S	MSS	MRMS	MR			SVS
Fandaga <sup>db</sup>	SVS		MSS	RMR	MS	MSS	MS	MR	MS (P)	R	VS
Fathom <sup>db</sup>	MR		MR	MR	MS	SVS	MS	MRMS	MSS	R	SVS
Flinders <sup>db</sup>	MSS		S	RMR	MS	MSS	MRMS-MS	MRMS	MSS (P)	S	SVS
Keel	MS		MR	R-MRMS	SVS	S	MRMS-MS	MS		R	SVS
Kiwi	S		S	RMR	MS	MSS	MRMS-MS	MRMS		S	VS
La Trobe <sup>db</sup>	MR		MSS	MS	MSS	S	S	MRMS	S	R	SVS
Laperouse <sup>db</sup>	S		MS	RMR	MSS	S	MRMS	MRMS	MS	S	VS
Leabrook <sup>db</sup>	MSS		MSS	RMR	S	S	MSS	MRMS	MS	RMR	VS
Litmus <sup>db</sup>	S		S	R	S	S	S	MS	MSS (P)	MS	VS
Maximus <sup>db</sup> CL	MR		MSS	RMR/S	MSS	S	MRMS	MRMS	S	R	VS
Minotaur <sup>db</sup>	VS		S	S	S	MSS	S	MRMS	MS (P)	R	SVS
Neo <sup>db</sup> CL	MR (P)		MRMS (P)	R (P)	MSS (P)		MRMS (P)	RMR (P)	S (P)	R	SVS (P)
RGT Planet <sup>db</sup>	MR		S	R	MRMS	MSS	MRMS	MRMS	MS	R (P)	SVS
Rosalind <sup>db</sup>	MSS		S	MSS	MR	S	MRMS-MS	MRMS	MSS	R	VS
SakuraStar	MS		MS	RMR	S	S	MRMS	MR	-	R	SVS
Scope CL <sup>db</sup>	MS		MSS	RMR	MSS	S	MRMS	MRMS	MRMS	S	SVS
Spartacus CL <sup>db</sup>	RMR		S	MS	MSS	S	S	MRMS	MSS	R	VS
Spinnaker <sup>db</sup>	MR		S	R	MS	S	MRMS	MR	MS (P)	S	VS
Titan AX <sup>db</sup>	S		MSS	RMR	S	S	MS	MR	S (P)	MR (P)	VS
Topstart	MSS		MSS	R	MS	MSS	MRMS	RMR		S	SVS
Urambie	RMR		MSS	MRMS-MSS	MSS	MSS	MRMS	MRMS			VS
Westminster <sup>db</sup>	MR		MSS	RMR	MRMS	MSS	MRMS-MS	MRMS			SVS
Yeti <sup>db</sup>	SVS		MS	MR	S	S	MS	MR		RMR	VS
Zena <sup>db</sup> CL	MR		S	R	MS	S	MRMS-MS	MRMS	MS (P)	R	VS

\* ratings will be updated when available. Learn more via the [NVT Disease Ratings](#).

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

T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant,

(P) = provisional rating, - hyphen indicates a range, / indicates pathotype differences, ^ line contains a few susceptible off types.

WHEAT  
BARLEY  
OAT  
CANOLA  
FABA BEAN  
FIELD PEA  
LENTIL  
LUPIN



# OAT

## New oat varieties

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

Variety	Breeding company	End point royalty* (\$)	Comments supplied by breeding company <sup>1</sup>
Archer <sup>db</sup>	InterGrain	TBC	Variety description not supplied.
Kingbale <sup>db</sup>	InterGrain	TBC	Variety description not supplied.
Kultarr <sup>db</sup>	InterGrain	TBC	Variety description not supplied.
Wallaby <sup>db</sup>	InterGrain	TBC	Variety description not supplied.

\* EPR amount is ex-GST, <sup>db</sup> denotes Plant Breeder's Rights apply. <sup>1</sup> All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder.

WHEAT

BARLEY

OAT

CANOLA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

Refer to the latest *Crop Sowing Guide* for further information at [nvt.grdc.com.au/resources/crop-sowing-guides](http://nvt.grdc.com.au/resources/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	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.71	1.32	2.94	3.43	2.83
13008-18			102	118	109
Archer <sup>db</sup> *					99
Wandering	110	120	105	109	106
Bilby <sup>db</sup>	103	101	94	113	113
Bannister <sup>db</sup>	106	111	111	106	95
Williams <sup>db</sup>	109	124	107	98	99
Koala <sup>db</sup>	103	108	123	99	77
Kojonup <sup>db</sup>	91	92	108	100	93
Wallaby <sup>db</sup>					87
Durack <sup>db</sup>	94	88	83	87	107
Sowing date	21 May	25 May	1 Jun	30 Apr	8 May
Rainfall J–M (mm)	24	49	48	57	33
Rainfall A–O (mm)	188	180	386	320	206

Special thanks to 2023 trial cooperator.

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

**Table 2: Rylington Park oat.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	4.12			4.67	3.34
Archer <sup>db</sup> *		Compromised trial	Trial results below standard		125
Koala <sup>db</sup>	138			95	108
Williams <sup>db</sup>	116			106	115
Wandering	108			106	112
Bannister <sup>db</sup>	116			101	108
Kultarr <sup>db</sup>					112
Kojonup <sup>db</sup>	120			103	95
13008-18				104	108
Wallaby <sup>db</sup>					89
Kingbale <sup>db</sup> *					102
Sowing date	6 May	25 May	2 Jun	7 Jun	31 May
Rainfall J–M (mm)	60	47	93	20	26
Rainfall A–O (mm)	407	527	634	541	406

Special thanks to 2023 trial cooperator, Rylington Park.

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

**Table 3: Wagin oat.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	3.28	3.17	4.29	3.71	2.07
13008-18			111	125	112
Koala <sup>db</sup>	109	109	121	122	78
Wandering	104	108	108	118	109
Bannister <sup>db</sup>	106	107	112	119	96
Archer <sup>db</sup> *					105
Williams <sup>db</sup>	100	105	106	108	102
Bilby <sup>db</sup>	99	101	99	108	115
Wallaby <sup>db</sup>					87
Kojonup <sup>db</sup>	88	98	101	102	95
Yallara <sup>db</sup>	102	93	88	66	87
Sowing date	7 Jun	25 May	3 Jun	12 May	31 May
Rainfall J–M (mm)	27	66	63	26	26
Rainfall A–O (mm)	302	177	411	308	220

Special thanks to 2023 trial cooperator, Paul Ward.

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

WHEAT

BARLEY

OAT

CANOLA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

## Oat variety disease ratings – Western Australia

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

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
Archer <sup>db</sup>	MRMS (P)			MSS (P)	SVS	
Bannister <sup>db</sup>	MSS			MS	MS	MR
Bilby <sup>db</sup>	S			S	S	S
Brusher <sup>db</sup>	MSS			S	MSS	MR
Carrolup	MSS			SVS	MRMS	VS
Durack <sup>db</sup>	S			S	MS	MRMS
Echidna	SVS			MSS	MSS	MS
Goldie <sup>db</sup>	MS			MS	MSS	MR
Kingbale <sup>db</sup>	MSS			MS	MRMS	R
Koala <sup>db</sup>	MSS			MSS	MS	R
Kojonup <sup>db</sup>	MSS			MS	MSS	VS
Kowari <sup>db</sup>	S			S	S	S
Kultarr <sup>db</sup>	MS (P)			MSS (P)	MSS	
Mitika <sup>db</sup>	SVS			SVS	S	VS
Mulgara <sup>db</sup>	S/MS			MSS	MSS	R
Tungoo <sup>db</sup>	MRMS#			MSS	MSS	MR
Wallaby <sup>db</sup>	MS (P)			MS (P)	MRMS	
Wandering	MSS			MSS	S	VS
Williams <sup>db</sup>	MSS			MSS	MRMS	S
Wintaroo	MS#			MS	MSS	R
Yallara <sup>db</sup>	MSS			S	MRMS	R

\* ratings will be updated when available. Learn more via the [NVT Disease Ratings](#).

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

(P) = provisional rating, - hyphen indicates a range, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes.

WHEAT

BARLEY

OAT

CANOLA

FABA BEAN

FIELD PEA

LENTIL

LUPIN

# CANOLA

## New canola varieties

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

Variety	Breeding company	End point royalty* (\$)	Comments supplied by breeding company <sup>1</sup>
DG Avon TT <sup>Ⓛ</sup>	Nutrien Ag Solutions Ltd	TBC	Early, determinant, short TT open pollinated variety suited to low-medium rainfall zones.
DG Drummond TF	Nutrien Ag Solutions Ltd	N/A	DG Drummond TF is a tall, mid-late maturing, glyphosate-tolerant hybrid with group H blackleg resistance. DG Drummond TF is suited to medium to high-rainfall areas.
Hyola® Continuum CL	Advanta Seeds	N/A	An early-mid maturity Clearfield® hybrid, Continuum CL provides wide environmental adaptability with excellent grain oil potential. It exhibits strong yields in target environments and demonstrates excellent adaptability to growing regions with a range of 1.0–5.5 t/ha. Continuum CL showcases an exceptionally high level of early plant vigour, high lodging resistance, and an outstanding blackleg rating of 'R' due to its distinctive tri-group resistance, ADF.
Hyola® Defender CT	Advanta Seeds	N/A	A mid-season maturity CT hybrid, Defender CT delivers remarkable grain yield, robust plant vigour and a very high grain oil content. Defender CT performance is closely aligned with the renowned Hyola® Blazer TT variety. Defender CT offers uniform flowering, manageable height for direct harvesting and an exceptional blackleg rating of 'R' due to its distinctive tri-group resistance, ADF.
InVigor® LR 4540P	BASF Australia Ltd	N/A	New LibertyLink® hybrid with tolerance to both Liberty® and TruFlex®. Combines two herbicide tolerances with the flexibility of PodGuard® for shatter tolerance. Early-mid maturing variety suited to low and medium-rainfall zones. Marketed by BASF.
Monola® H524TT	Nuseed	N/A	Monola® H524TT is an early-mid maturing TT hybrid with excellent early vigour. It is Nuseed's second Monola TT hybrid with improved yield and oil profile. It has demonstrated competitive yield and oil content to commercial canola TT hybrids during trials and exhibits strong early vigour and good early biomass. Suited to medium to slow canola growing regions, Monola® H524TT demonstrates strong blackleg resistance and good harvestability. Limited commercial release in 2024.
PY323G	Pioneer Hi-Bred Aust		Variety description not supplied.
PY421C	Pioneer Hi-Bred Aust		Variety description not supplied.
PY422G	Pioneer Hi-Bred Aust		Variety description not supplied.
PY424GC	Pioneer Hi-Bred Aust		Variety description not supplied.
PY525G	Pioneer Hi-Bred Aust		Variety description not supplied.

\* EPR amount is ex-GST, <sup>Ⓛ</sup> denotes Plant Breeder's Rights apply. <sup>1</sup> All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder.

WHEAT

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OAT

CANOLA

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Refer to the latest *Crop Sowing Guide* for further information at [nvt.grdc.com.au/resources/crop-sowing-guides](http://nvt.grdc.com.au/resources/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	2019	2020	2021	2022	2023
Mean yield (t/ha)			3.64	2.33	1.79
Nuseed® Hunter TF	No trial	Trial failed		109	111
InVigor® R 4520P			112	105	107
InVigor® LR 4540P				106	109
Pioneer® 45Y28 RR			108	107	109
Hyola® Regiment XC			110	108	103
Nuseed® Eagle TF				106	109
Pioneer® 44Y30 RR			106	105	109
Nuseed® Raptor TF			103	106	108
PY323G					110
Pioneer® 44Y27 (RR)			100	105	109
Sowing date		7 May	30 Apr	20 Apr	31 May
Rainfall J–M (mm)		74	74	55	17
Rainfall A–O (mm)		202	429	384	266

Special thanks to 2023 trial cooperator.  
Learn more via the [NVT Long Term Yield Reporter](#)

**Table 2: Katanning med-high rainfall GLY.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)			3.42	2.93	1.78
Nuseed® Hunter TF	Trial results below standard	Trial failed	108	109	113
InVigor® R 4520P			110	110	103
Pioneer® 45Y28 RR			112	103	107
InVigor® LR 4540P				111	111
Nuseed® Eagle TF				102	107
Hyola® Regiment XC			108		106
Pioneer® 44Y30 RR			105	105	109
Nuseed® Raptor TF			104	101	112
PY323G					114
Pioneer® 44Y27 (RR)			98	102	114
Sowing date	24 May	5 May	24 Apr	19 Apr	28 Apr
Rainfall J–M (mm)	44	64	68	26	16
Rainfall A–O (mm)	271	157	454	381	262

Special thanks to 2023 trial cooperator, Kunmallup Pastoral Co.  
Learn more via the [NVT Long Term Yield Reporter](#)

**Table 3: Kendenup med-high rainfall GLY.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	3.14	3.09	3.26	3.49	2.61
Pioneer® 45Y28 RR		105	112	113	116
Nuseed® Eagle TF			111	112	115
PY525G					110
InVigor® R 4520P	106	108	104	108	104
Pioneer® 44Y30 RR		105	104	106	107
Nuseed® Hunter TF				105	109
DG Drummond TF			106	106	106
PY422G					103
Nuseed® Raptor TF	102	102	106	103	111
Hyola® Regiment XC			105	102	110
Sowing date	24 Apr	6 May	20 Apr	21 Apr	4 May
Rainfall J–M (mm)	53	63	81	44	38
Rainfall A–O (mm)	329	363	633	528	519

Special thanks to 2023 trial cooperator.  
Learn more via the [NVT Long Term Yield Reporter](#)

**Table 4: Kojonup med-high rainfall GLY.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.96	3.76	4.05	2.82	2.67
Pioneer® 45Y28 RR		103	115	110	105
Nuseed® Eagle TF			114	110	104
Nuseed® Hunter TF			106	106	106
InVigor® R 4520P	107	108	102	106	103
Nuseed® Raptor TF	100	103	110	104	106
Hyola® Regiment XC			112	107	103
Pioneer® 44Y30 RR		106	103	104	105
InVigor® LR 4540P				101	105
PY323G					106
PY525G					98
Sowing date	23 Apr	6 May	23 Apr	28 Apr	13 May
Rainfall J–M (mm)	64	35	82	37	7
Rainfall A–O (mm)	316	321	549	459	353

Special thanks to 2023 trial cooperator, DT Stone & Co.  
Learn more via the [NVT Long Term Yield Reporter](#)

WHEAT

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Table 5: Stirlings South med-high rainfall GLY.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	3.00	2.64		3.17	
InVigor® LR 4540P			Compromised trial	118	Trial failed
InVigor® R 4520P	108	114		106	
Nuseed® Hunter TF				115	
Pioneer® 44Y30 RR		105		112	
Pioneer® 45Y28 RR		105		102	
Nuseed® Eagle TF				102	
Nuseed® Condor TF	105	103		107	
Nuseed® Raptor TF	100	96		110	
InVigor® R 4022P	97	103		105	
DG Drummond TF				95	
Sowing date	24 Apr	6 May	22 Apr	28 Apr	20 Apr
Rainfall J–M (mm)	97	84	109	65	38
Rainfall A–O (mm)	325	295	607	496	407

Special thanks to 2023 trial cooperator.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 6: Wagin med-high rainfall GLY.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)			3.22	1.77	1.76
Pioneer® 44Y27 (RR)	No trial	Trial failed	111	114	119
PY323G					118
Nuseed® Hunter TF			110	118	112
InVigor® LR 4540P				123	110
Pioneer® 44Y30 RR			111	110	109
Nuseed® Raptor TF			109	108	113
DG Lofty TF			104	104	116
Pioneer® 45Y28 RR			109	100	104
PY424GC					106
Nuseed® Eagle TF				99	103
Sowing date		6 May	20 Apr	12 May	7 May
Rainfall J–M (mm)		66	68	26	26
Rainfall A–O (mm)		177	408	308	220

Special thanks to 2023 trial cooperator, Paul Ward.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 7: Hyden low-med rainfall GLY.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		1.54	2.97		1.19
Nuseed® Emu TF	No trial	122		Compromised trial	125
Nuseed® Hunter TF					107
PY323G					114
InVigor® LR 4540P					110
PY424GC					98
Pioneer® 44Y27 (RR)		105	104		101
InVigor® R 4520P		101	102		110
Hyola® Regiment XC			103		102
InVigor® R 4022P		102	100		106
Pioneer® 44Y30 RR			102		96
Sowing date		25 May	22 Apr	17 Apr	31 May
Rainfall J–M (mm)		81	78	92	14
Rainfall A–O (mm)		118	288	331	178

Special thanks to 2023 trial cooperator, Mayfield Grains.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 8: Jerramungup low-med rainfall GLY.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		1.43	3.26	2.57	2.78
PY424GC	Compromised trial				106
Nuseed® Hunter TF				110	107
InVigor® LR 4540P				108	105
Pioneer® 44Y27 (RR)		105	100	110	103
Pioneer® 44Y30 RR			106	104	101
InVigor® R 4520P		98	105	102	103
Hyola® Regiment XC			105		102
PY323G					103
InVigor® R 4022P		101	98	102	101
Nuseed® Emu TF		122		100	104
Sowing date	16 Apr	5 May	28 Apr	17 Apr	13 Apr
Rainfall J–M (mm)	49	81	109	76	36
Rainfall A–O (mm)	236	237	469	404	277

Special thanks to 2023 trial cooperator, Trent Parsons.  
Learn more via the [NVT Long Term Yield Reporter](#)

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Table 9: Nyabing low-med rainfall GLY.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.08		3.02	2.59	2.83
PY424GC		Trial failed			105
Nuseed® Hunter TF			108	108	108
InVigor® LR 4540P				104	106
Nuseed® Raptor TF	110		105	109	101
Pioneer® 44Y30 RR			105	104	102
InVigor® R 4520P	111		107	99	103
Pioneer® 44Y27 (RR)	96		103	106	102
Hyola® Regiment XC			102		104
InVigor® R 4022P	102		101	98	99
Hyola® Garrison XC	99			97	102
Sowing date	30 Apr	5 May	20 Apr	18 Apr	12 Apr
Rainfall J–M (mm)	34	47	69	45	20
Rainfall A–O (mm)	198	179	409	303	240

Special thanks to 2023 trial cooperator, Rossdean Partners.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 10: Kendenup med-high rainfall IML.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	3.14	3.28	3.37	4.10	2.73
Pioneer® 45Y95 (CL)			119	120	125
PY421C				120	121
Pioneer® 44Y94 CL	117	111	116	117	122
Pioneer® 45Y93 CL	122	107	116	118	117
Hyola® Continuum CL				110	115
Hyola® Solstice CL			105	103	113
Pioneer® 43Y92 (CL)					104
PY520TC					99
Hyola® Equinox CL		100	96		
VICTORY® V75-03CL	94	93	93		
Sowing date	24 Apr	6 May	20 Apr	21 Apr	4 May
Rainfall J–M (mm)	53	63	81	44	38
Rainfall A–O (mm)	329	363	633	528	519

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

Table 11: Kojonup med-high rainfall IML.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.75	3.63	3.92	3.20	2.24
PY421C				116	111
Pioneer® 45Y95 (CL)			123	116	111
Pioneer® 44Y94 CL	110	111	118	112	112
Hyola® Solstice CL			114	109	109
Pioneer® 45Y93 CL	105	103	115	112	104
Hyola® Continuum CL				107	108
Pioneer® 43Y92 (CL)					104
Hyola® Equinox CL		103	101		
PY520TC					94
VICTORY® V75-03CL	95	93	91		
Sowing date	23 Apr	6 May	23 Apr	28 Apr	13 May
Rainfall J–M (mm)	64	35	82	37	7
Rainfall A–O (mm)	316	321	549	459	353

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

Table 12: Gnowangerup med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)			3.07	2.47	
HyTtec® Trifecta	No trial	Trial failed	121	113	Compromised trial
Hyola® Blazer TT			118	111	
HyTtec® Trophy			115	112	
PY520TC				108	
SF Dynatron TT			112	108	
InVigor® T 4511			111	107	
Hyola® Defender CT				107	
InVigor® T 4510			110	107	
RGT Capacity TT			110	104	
RGT Baseline® TT				104	
Sowing date		7 May	30 Apr	20 Apr	31 May
Rainfall J–M (mm)		74	74	55	17
Rainfall A–O (mm)		202	429	384	266

Special thanks to 2023 trial cooperator.  
Learn more via the [NVT Long Term Yield Reporter](#)

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Table 13: Katanning med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.80		3.16	2.64	1.49
HyITec® Trifecta	115	Trial failed		112	119
Hyola® Blazer TT			123	110	118
HyITec® Trophy	111		116	110	122
PY520TC					114
SF Dynatron TT	108		115	108	114
Hyola® Defender CT				105	114
InVigor® T 4511			110	108	112
InVigor® T 4510	109		107	108	115
RGT Baseline® TT			119	103	100
RGT Capacity TT	108		110	107	102
Sowing date	24 May	5 May	24 Apr	19 Apr	28 Apr
Rainfall J–M (mm)	44	64	68	26	16
Rainfall A–O (mm)	271	157	454	381	262

Special thanks to 2023 trial cooperator, Kunmallup Pastoral Co.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 14: Kendenup med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	3.04	2.92	3.07	3.79	
Hyola® Blazer TT		112	120	121	Trial failed
Hyola® Defender CT				120	
PY520TC			119	119	
HyITec® Trifecta	117	112	119	119	
RGT Baseline® TT			117	119	
SF Dynatron TT		109	112	114	
HyITec® Trophy	110	110	114	113	
InVigor® T 6010	113	105	110	112	
DG Bidgee TT <sup>Ⓛ</sup>			111	110	
RGT Capacity TT		106	107	109	
Sowing date	24 Apr	6 May	20 Apr	21 Apr	4 May
Rainfall J–M (mm)	53	63	81	44	38
Rainfall A–O (mm)	329	363	633	528	519

Special thanks to 2023 trial cooperator.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 15: Kojonup med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.46	3.40	3.78	3.06	2.37
HyITec® Trifecta	108	110	124	116	111
Hyola® Blazer TT		110	123	116	111
PY520TC			120	113	109
HyITec® Trophy	108	110	117	111	111
Hyola® Defender CT				113	109
SF Dynatron TT	109	109	112	109	108
RGT Baseline® TT			117	113	103
InVigor® T 4511			109	106	106
InVigor® T 4510	107	108	105	104	107
RGT Capacity TT	105	105	106	106	102
Sowing date	23 Apr	6 May	23 Apr	28 Apr	13 May
Rainfall J–M (mm)	64	35	82	37	7
Rainfall A–O (mm)	316	321	549	459	353

Special thanks to 2023 trial cooperator, DT Stone & Co.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 16: Stirlings South med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.74	2.59		3.00	2.13
Hyola® Blazer TT		114	Compromised trial	111	144
Hyola® Defender CT				107	148
PY520TC				107	141
HyITec® Trifecta	116	113		111	132
SF Dynatron TT				112	136
HyITec® Trophy	109	107		118	132
RGT Baseline® TT				92	127
InVigor® T 4510	103	105		115	119
InVigor® T 4511				111	117
RGT Capacity TT	109			101	115
Sowing date	24 Apr	6 May	22 Apr	28 Apr	20 Apr
Rainfall J–M (mm)	97	84	109	65	38
Rainfall A–O (mm)	325	295	607	496	407

Special thanks to 2023 trial cooperator.  
Learn more via the [NVT Long Term Yield Reporter](#)

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Table 17: Wagin med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.21	1.93	3.22	2.12	1.56
HyTTec® Trophy	108	106	118	113	118
InVigor® T 4510	109	111	110	113	113
SF Dynatron TT	106	111	116	106	109
Hyola® Blazer TT		104	120	105	110
HyTTec® Trifecta	109			109	110
Hyola® Defender CT				97	108
InVigor® T 4511			109	110	109
PY520TC					108
InVigor® LT 4530P		113	99	109	100
RGT Capacity TT		104	105	102	97
Sowing date	16 May	6 May	20 Apr	12 May	7 May
Rainfall J–M (mm)	27	66	68	26	26
Rainfall A–O (mm)	302	177	408	308	220

Special thanks to 2023 trial cooperator, Paul Ward.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 18: Hyden low-med rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.35	1.56	2.83		1.03
HyTTec® Velocity		122		Compromised trial	127
HyTTec® Trident	116	111	113		112
HyTTec® Trophy	113	107			109
SF Dynatron TT	117	101			105
InVigor® T 4510	110	106	107		108
Hyola® Blazer TT		101			107
RGT Capacity TT		107			108
InVigor® T 4511			105		100
InVigor® LT 4530P		98	103		101
Hyola® Defender CT					101
Sowing date	1 May	25 May	22 Apr	17 Apr	31 May
Rainfall J–M (mm)	7	81	78	92	14
Rainfall A–O (mm)	192	118	288	331	178

Special thanks to 2023 trial cooperator, Mayfield Grains.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 19: Jerramungup low-med rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		1.58	2.93	2.54	2.74
HyTTec® Trident	Compromised trial	111	111	118	111
HyTTec® Trophy		106		110	108
SF Dynatron TT		100		110	107
HyTTec® Velocity				109	109
InVigor® T 4510		106	105	113	106
Hyola® Blazer TT		98		104	106
InVigor® T 4511			107	107	104
InVigor® LT 4530P		98	105	112	103
Hyola® Enforcer CT		96		99	103
Hyola® Defender CT				99	102
Sowing date	16 Apr	5 May	28 Apr	17 Apr	13 Apr
Rainfall J–M (mm)	49	81	109	76	36
Rainfall A–O (mm)	236	237	469	404	277

Special thanks to 2023 trial cooperator, Trent Parsons.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 20: Nyabing low-med rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		2.44	3.16	2.53	2.66
HyTTec® Trident	Trial failed	109	110	116	114
SF Dynatron TT		108	112	112	111
Hyola® Blazer TT		108		108	110
HyTTec® Trophy				111	111
HyTTec® Velocity			103	105	112
InVigor® T 4510		105	106	109	106
Hyola® Enforcer CT		104		107	108
InVigor® T 4511			105	108	106
RGT Baseline® TT				101	108
Hyola® Defender CT				103	105
Sowing date	30 Apr	5 May	20 Apr	18 Apr	12 Apr
Rainfall J–M (mm)	34	47	69	45	20
Rainfall A–O (mm)	198	179	409	303	240

Special thanks to 2023 trial cooperator, Rossdean Partners.  
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 2024.

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

Table 21: Canola disease guide – autumn 2024 ratings.

[illegible]

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](#).



Variety	2024 autumn blackleg rating			Type
	Bare	Fluopyram (e.g. ILeVO®)	Pydiflumetofen (e.g. Saltro®)	
IMIDAZOLINONE AND TRIAZINE-TOLERANT VARIETIES				
GLYPHOSATE-TOLERANT VARIETIES				
GLYPHOSATE AND IMIDAZOLINONE-TOLERANT VARIETIES				
GLUFOSINATE AND TRIAZINE-TOLERANT VARIETIES				

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](#).

# FABA BEAN

## 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	2019	2020	2021	2022	2023
Mean yield (t/ha)			3.10	2.46	1.03
PBA Bendoc <sup>db</sup> *	Trial failed	Compromised trial	117	101	104
PBA Marne <sup>db</sup>			102	104	135
Nura <sup>db</sup>			114	98	111
Farah <sup>db</sup>			106	98	118
PBA Zahra <sup>db</sup>			107	100	105
Fiesta VF			102	97	118
PBA Amberley <sup>db</sup>			101	96	104
PBA Samira <sup>db</sup>			99	97	103
PBA Rana <sup>db</sup>			92	86	104
Sowing date		7 May	27 April	12 May	31 May
Rainfall J–M (mm)		74	77	55	17
Rainfall A–O (mm)		202	435	384	266

Special thanks to 2023 trial cooperator.

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

**Table 2: Kojonup faba bean.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		1.67	2.59	3.06	1.94
PBA Marne <sup>db</sup>	No trial	82	126	111	121
Fiesta VF		104	109	98	102
PBA Rana <sup>db</sup>			99	88	73
Farah <sup>db</sup>		96	106	96	104
PBA Samira <sup>db</sup>		102	103	97	98
PBA Amberley <sup>db</sup>		101	101	94	97
PBA Zahra <sup>db</sup>		78	99	94	105
Nura <sup>db</sup>		95	91	90	100
PBA Bendoc <sup>db</sup> *		78	87	91	104
Sowing date		7 May	26 April	28 April	14 May
Rainfall J–M (mm)		45	99	29	18
Rainfall A–O (mm)		322	618	429	387

Special thanks to 2023 trial cooperator, Excel Farms.

\* 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 [nvt.grdc.com.au/resources/crop-sowing-guides](https://nvt.grdc.com.au/resources/crop-sowing-guides)

## Faba bean variety disease ratings – Western Australia

The following table contains varietal ratings for the predominant diseases of faba bean in Western Australia. These ratings are updated annually by crop pathologists and were released in March 2024. 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
Cairo	VS	S	S		S
Doza	VS	S	S		MR
Farah <sup>db</sup>	MS	S	S		VS
FBA Ayla <sup>db</sup>		S	S		MR
Fiesta VF	S	S	S		VS
Nura <sup>db</sup>	MR (P)	S	MS		VS
PBA Amberley <sup>db</sup>	MR	S	MRMS		VS
PBA Bendoc <sup>db</sup>	MR	S	S		VS
PBA Marne <sup>db</sup>	MS	S	MS (P)		MRMS
PBA Nanu <sup>db</sup>		S	S		MR
PBA Nasma <sup>db</sup>	S	S	S		MRMS
PBA Rana <sup>db</sup>	MRMS (P)	S	MS		VS
PBA Samira <sup>db</sup>	MR (P)	S	MS		S
PBA Warda <sup>db</sup>	S	S	S		MRMS
PBA Zahra <sup>db</sup>	MRMS	S	MS		S

\* ratings will be updated when available. Learn more via the [NVT Disease Ratings](#).

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

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# FIELD PEA

## New field pea varieties

The following information is for field pea varieties released in the 12 months to the date when the MET analysis was published on NVT online. Please go to [nvt.grdc.com.au](http://nvt.grdc.com.au) to find trial results for any new varieties released since the publication of this harvest report.

Variety	Breeding company	End point royalty* (\$)	Comments supplied by breeding company <sup>1</sup>
APB Bondi <sup>Ⓛ</sup>	Agriculture Victoria	TBC	APB Bondi <sup>Ⓛ</sup> (tested as OZP1903) is a Kasper-type pea with mid-flowering and mid-maturity. APB Bondi <sup>Ⓛ</sup> combines a number of traits in a semi-leafless and semi-dwarf background. It is rated resistant to moderately resistant to downy mildew; resistant to powdery mildew, pea seed-borne mosaic virus and bean leaf roll virus; tolerant to boron toxicity and moderately tolerant to salinity. It has a high yield potential and wide adaptation. Seed is marketable as Kasper pea.

\* EPR amount is ex-GST, <sup>Ⓛ</sup> denotes Plant Breeder's Rights apply. <sup>1</sup> All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder.

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Refer to the latest *Crop Sowing Guide* for further information at [nvt.grdc.com.au/resources/crop-sowing-guides](http://nvt.grdc.com.au/resources/crop-sowing-guides)

## 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	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.13	2.01		1.41	1.28
PBA Taylor <sup>Ⓛ</sup>	107	116	Trial failed	119	115
PBA Butler <sup>Ⓛ</sup>	110	111		109	120
APB Bondi <sup>Ⓛ</sup>		112		105	120
PBA Gunyah <sup>Ⓛ</sup>	104	109		120	100
PBA Wharton <sup>Ⓛ</sup>	99	110		119	93
Kaspa	101	105		105	110
PBA Oura <sup>Ⓛ</sup>	104	100		113	87
PBA Twilight <sup>Ⓛ</sup>	95	101		112	79
GIA Ourstar <sup>Ⓛ*</sup>		77		83	61
GIA Kastar <sup>Ⓛ*</sup>		79		66	70
Sowing date	13 June	25 May	1 June	7 June	26 May
Rainfall J–M (mm)	44	64	68	26	16
Rainfall A–O (mm)	271	157	454	381	262

Special thanks to 2023 trial cooperator, Kunmallup Pastoral Co.

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

**Table 2: Pingrup field pea.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	0.74	1.41	1.46	1.59	1.37
PBA Taylor <sup>Ⓛ</sup>	92	107	111	119	109
APB Bondi <sup>Ⓛ</sup>		110	112	109	113
PBA Butler <sup>Ⓛ</sup>	96	103	107	114	112
PBA Wharton <sup>Ⓛ</sup>	97	108	107	110	98
PBA Gunyah <sup>Ⓛ</sup>	100	101	103	114	100
PBA Oura <sup>Ⓛ</sup>	118	100	95	105	98
Kaspa	89	97	104	108	101
PBA Twilight <sup>Ⓛ</sup>	106	105	99	100	91
GIA Ourstar <sup>Ⓛ*</sup>		90	84	75	75
GIA Kastar <sup>Ⓛ*</sup>		94	98	65	68
Sowing date	13 June	25 May	17 June	7 June	24 May
Rainfall J–M (mm)	24	56	48	57	32
Rainfall A–O (mm)	188	189	386	320	195

Special thanks to 2023 trial cooperator.

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

## 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 2024.

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> )*
APB Bondi <sup>Ⓛ</sup>	S	RMR (S)	RMR		
GIA Kastar <sup>Ⓛ</sup>	S	S	RMR		
GIA Ourstar <sup>Ⓛ</sup>	S (P)	S	S		
Kaspa	S	S	S		
PBA Butler <sup>Ⓛ</sup>	MS	S	S		
PBA Gunyah <sup>Ⓛ</sup>	S	S	S		
PBA Noosa <sup>Ⓛ</sup>	S	MS	S		
PBA Oura <sup>Ⓛ</sup>	MS	S	S		
PBA Pearl	MS	S	S		
PBA Percy	MRMS	S	S		
PBA Taylor <sup>Ⓛ</sup>	S	S	S		
PBA Twilight <sup>Ⓛ</sup>	S	S	S		
PBA Wharton <sup>Ⓛ</sup>	S	S	RMR		
Sturt	MS	S	S		

\* ratings will be updated when available. Learn more via the [NVT Disease Ratings](#).

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



# LENTIL

## 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. Please go to [nvt.grdc.com.au](http://nvt.grdc.com.au) to find trial results for any new varieties released since the publication of this harvest report.

Variety	Breeding company	End point royalty* (\$)	Comments supplied by breeding company <sup>1</sup>
ALB Terrier <sup>db</sup>	Agriculture Victoria	TBC	ALB Terrier <sup>db</sup> is an imidazolinone herbicide tolerant, small market class red lentil with mid-flowering and maturity characteristics. It is rated RMR to pathotype two of Asochyta, which is the best in its class. It is broadly adapted to various lentil growing regions of Australia.

\* EPR amount is ex-GST, <sup>db</sup> denotes Plant Breeder's Rights apply. <sup>1</sup> All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder.

WHEAT

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Refer to the latest *Crop Sowing Guide* for further information at [nvt.grdc.com.au/resources/crop-sowing-guides](http://nvt.grdc.com.au/resources/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	2019	2020	2021	2022	2023
Mean yield (t/ha)			2.14		
GIA Thunder <sup>Ⓛ*</sup>	No trial	Trial failed	107	Trial failed	Trial failed
GIA Lightning <sup>Ⓛ*</sup>			105		
ALB Terrier <sup>Ⓛ</sup>			105		
PBA Hallmark XT <sup>Ⓛ*</sup>			104		
PBA HighlandXT <sup>Ⓛ*</sup>			102		
PBA Bolt <sup>Ⓛ</sup>			100		
PBA Jumbo2 <sup>Ⓛ</sup>			98		
PBA Hurricane XT <sup>Ⓛ*</sup>			94		
GIA Leader <sup>Ⓛ*</sup>			93		
GIA Sire <sup>Ⓛ*</sup>			89		
Sowing date		7 May	9 Jun	15 May	31 May
Rainfall J–M (mm)		74	77	55	17
Rainfall A–O (mm)		202	432	384	266

Special thanks to 2023 trial cooperator.

\* 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 2024.

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 <sup>Ⓛ</sup> virulent)	Ascochyta blight (Pathotype 1 Nipper <sup>Ⓛ</sup> virulent)	Botrytis grey mould	RLN resistance ( <i>Pratylenchus neglectus</i> )*	RLN resistance ( <i>Pratylenchus thornei</i> )*
ALB Terrier <sup>Ⓛ</sup>	MR (P)	R	MRMS (P)		
GIA Leader <sup>Ⓛ</sup>	MR (P)	MR (P)	MRMS (P)		
GIA Lightning <sup>Ⓛ</sup>	MRMS (P)	R (P)	MS (P)		
GIA Metro <sup>Ⓛ</sup>	RMR (P)	MR (P)	MRMS (P)		
GIA Sire <sup>Ⓛ</sup>	MRMS (P)	R (P)	MS (P)		
GIA Thunder <sup>Ⓛ</sup>	MRMS (P)	R (P)	MRMS (P)		
Nipper <sup>Ⓛ</sup>	MR	MRMS	MRMS		
PBA Ace <sup>Ⓛ</sup>	MR	R	MS		
PBA Bolt <sup>Ⓛ</sup>	MRMS	MR	S		
PBA Hallmark XT <sup>Ⓛ</sup>	MRMS	RMR	MRMS		
PBA HighlandXT <sup>Ⓛ</sup>	MR (P)	MR	MS		
PBA Hurricane XT <sup>Ⓛ</sup>	MRMS (P)	RMR	MS		
PBA Jumbo2 <sup>Ⓛ</sup>	RMR	R	MR (P)		
PBA KelpieXT <sup>Ⓛ</sup>	MRMS	MRMS	MS		

\* ratings will be updated when available. Learn more via the [NVT Disease Ratings](#).

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

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LENTIL

LUPIN

# LUPIN

## New lupin varieties

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

Variety	Breeding company	End point royalty* (\$)	Comments supplied by breeding company <sup>1</sup>
Gidgee <sup>Ⓛ</sup>	Australian Grain Technologies	TBC	A very high and stable yielding alternative to PBA Jurien <sup>Ⓛ</sup> and Mandelup <sup>Ⓛ</sup> . Widely adapted but particularly well adapted to the northern and central wheatbelt of WA. Metribuzin tolerant. Reduced risk of seed splitting compared with PBA Jurien <sup>Ⓛ</sup> . Moderately resistant to stem Phomopsis. Good CMV resistance. Slightly quicker maturity relative to PBA Jurien <sup>Ⓛ</sup> , slightly slower than Mandelup <sup>Ⓛ</sup> .
Rosemont <sup>Ⓛ</sup>	Australian Grain Technologies	TBC	A very high yielding alternative to PBA Jurien <sup>Ⓛ</sup> , Coyote <sup>Ⓛ</sup> and Mandelup <sup>Ⓛ</sup> . Best performance in softer finishing situations and southern WA environments. Unique white flower and faintly speckled seed. Metribuzin tolerant. Excellent early vigour. Reduced risk of seed splitting compared with PBA Jurien <sup>Ⓛ</sup> . Taller plant height, may improve harvestability. Moderately resistant to stem Phomopsis. Good CMV resistance. Slightly slower maturity relative to PBA Jurien <sup>Ⓛ</sup> , slightly quicker than Coyote <sup>Ⓛ</sup> .

\* EPR amount is ex-GST, <sup>Ⓛ</sup> denotes Plant Breeder's Rights apply. <sup>1</sup> All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder.

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Refer to the latest *Crop Sowing Guide* for further information at [nvt.grdc.com.au/resources/crop-sowing-guides](http://nvt.grdc.com.au/resources/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	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.43	1.91		2.36	1.43
Coyote <sup>db</sup>	102	119	Trial failed	113	119
PBA Bateman <sup>db</sup>	100	114		113	115
Rosemont <sup>db</sup>				105	106
PBA Gunyidi <sup>db</sup>	98	109		110	112
Lawler <sup>db</sup>		108		103	105
PBA Jurien <sup>db</sup>	106	106		105	100
PBA Barlock <sup>db</sup>	101	102		105	101
Mandelup <sup>db</sup>	102	101		100	99
Gidgee <sup>db</sup>				95	94
Coromup <sup>db</sup>	93	100		98	109
Sowing date	18 May	5 May	30 Apr	1 May	26 May
Rainfall J–M (mm)	44	64	68	26	16
Rainfall A–O (mm)	271	157	454	381	262

Special thanks to 2023 trial cooperator, Kunmallup Pastoral Co.  
Learn more via the [NVT Long Term Yield Reporter](#)

**Table 2: Pingrup narrow-leaf lupin.**

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		1.76	3.39	1.73	1.13
Coyote <sup>db</sup>	No trial	119	108	111	113
Rosemont <sup>db</sup>				107	113
PBA Bateman <sup>db</sup>		113	107	105	104
Lawler <sup>db</sup>		109	105	105	109
PBA Jurien <sup>db</sup>		108		99	104
Gidgee <sup>db</sup>			103	103	108
PBA Gunyidi <sup>db</sup>		108	104	102	100
Mandelup <sup>db</sup>		102	102	100	101
PBA Barlock <sup>db</sup>		102	104	96	96
Coromup <sup>db</sup>		98	94	108	104
Sowing date		25 May	1 May	29 Apr	8 May
Rainfall J–M (mm)		44	48	57	32
Rainfall A–O (mm)		183	386	320	195

Special thanks to 2023 trial cooperator.  
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 2024.

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	Sclerotinia stem rot
Coromup <sup>db</sup>	MR		MS	MR	S (P)
Coyote <sup>db</sup>	MRMS		MRMS	S	S (P)
Gidgee <sup>db</sup>	RMR		S (P)	MR	S (P)
Jenabillup <sup>db</sup>	MS		MR	MS	S (P)
Lawler <sup>db</sup>	MR		MS	MR	S (P)
Mandelup <sup>db</sup>	MRMS		S	MR	S (P)
PBA Barlock <sup>db</sup>	RMR		MR	MR	S (P)
PBA Bateman <sup>db</sup>	MRMS		MS	RMR	S (P)
PBA Gunyidi <sup>db</sup>	MRMS		MRMS	RMR	S (P)
PBA Jurien <sup>db</sup>	RMR		MRMS	RMR	S (P)
PBA Leeman <sup>db</sup>	MRMS		MRMS	MR	S (P)
Rosemont <sup>db</sup>	MRMS		MRMS (P)	MR	S (P)
Wonga	MR		MR	MR	S (P)

\* ratings will be updated when available. Learn more via the [NVT Disease Ratings](#).

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

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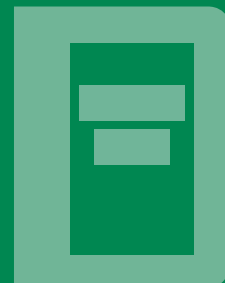
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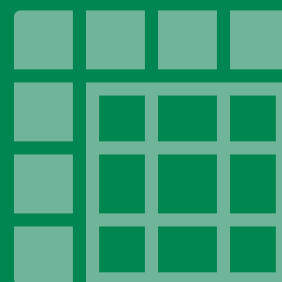
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