

Western Region





Title: NVT Harvest Report – Esperance

Published: Revised May 2024

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#### Acknowledgements:

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

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

PHOTO: Trevor Garnett, GRDC

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#### **LEGEND: MEAN VARIETY YIELD PERFORMANCE**

LOW HIGH

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

#### **DISEASE RATING COLOUR RANGE**

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

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

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

Regularly visit <a href="https://nvt.grdc.com.au/nvt-disease-ratings">nvt.grdc.com.au/nvt-disease-ratings</a> to find the latest NVT disease ratings.

Refer to the latest *Crop Sowing Guide* for further information at <a href="https://nvt.grdc.com.au/resources/crop-sowing-guides">nvt.grdc.com.au/resources/crop-sowing-guides</a>



## INTRODUCTION

The NVT Harvest Report - Esperance provides information to support growers and advisers with decisions on variety selection for Esperance. 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 Esperance 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 - Esperance*, 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 **Esperance**.

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 <u>Long Term Yield Reporter</u>.

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

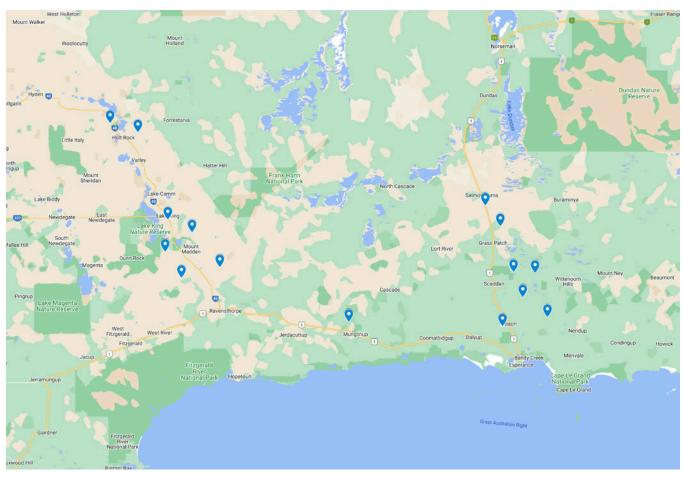
Refer to the latest *Crop Sowing Guide* for further information at <a href="https://nvt.grdc.com.au/resources/crop-sowing-guides">nvt.grdc.com.au/resources/crop-sowing-guides</a>



## **NVT SITE LOCATIONS – Esperance**

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

SOURCE: NVT Online



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



# WHEAT

#### **New wheat varieties**

The following information is for wheat varieties released in the 12 months to the date when the MET analysis was published on NVT online. Please go to <a href="https://nvt.grdc.com.au">nvt.grdc.com.au</a> 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	ТВС	3.90	Dozer <sup>(b)</sup> CL Plus is a quick-mid maturing APW Clearfield <sup>(8)</sup> Plus wheat. Dozer <sup>(b)</sup> CL Plus pushes mid and quick-mid imidazolinone wheat yields and is an excellent alternative to Chief CL Plus. It is best suited to low-medium rainfall areas in Western Australia and South Australia. Dozer <sup>(b)</sup> CL Plus has strong lodging resistance, moderate early vigour, medium plant height and medium coleoptile length. Dozer <sup>(b)</sup> CL Plus offers good grain size and test weight. Proactive disease management of stripe rust and CCN in South Australia is recommended with Dozer <sup>(b)</sup> CL Plus to maximise yield and quality potential.
Firefly <sup>(b)</sup>	InterGrain	ANW	4.00	Firefly <sup>(b)</sup> is a high-yielding, mid-slow maturing ANW wheat, setting a new noodle yield benchmark for WA. Firefly <sup>(b)</sup> is suited to late April through to early May sowings, being similar in maturity to Zen <sup>(b)</sup> and Calingiri. Firefly <sup>(b)</sup> has an effective disease resistance profile, including good stripe rust and yellow spot resistance. Firefly <sup>(b)</sup> offers good physical grain characteristics, including good grain size.
Genie <sup>(b)</sup>	InterGrain	АН	3.50	Genie <sup>(b)</sup> is a mid-slow maturing wheat and is an excellent alternative to RockStar <sup>(b)</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>(b)</sup> . Genie <sup>(b)</sup> , with its slightly later maturity than RockStar <sup>(b)</sup> and long coleoptile, enables earlier sowing opportunities to be maximised. Genie <sup>(b)</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>(b)</sup> has good sprouting tolerance. Genie <sup>(b)</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	FEED	3.50	Mid-maturity AH wheat that has consistently outperformed Scepter <sup>(b)</sup> with an improved shorter canopy and better lodging tolerance. Improved powdery mildew (MS) and stripe rust resistance (MS) over Scepter <sup>(b)</sup> , adding some minor genes for both diseases. AH quality in SA and Victoria and commercialised by Pacific Seeds.
Thumper <sup>⊕</sup>	InterGrain	АН	3.50	Thumper <sup>(b)</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>(b)</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>(b)</sup> offers good grain size, reducing screenings risk, and has adequate test weight. Thumper <sup>(b)</sup> is currently classified as APW in the western zone with an AH classification expected soon.
Tomahawk CL Plus <sup>®</sup>	Australian Grain Technologies	FEED	4.15	Scepter <sup>(b)</sup> -type Clearfield <sup>(e)</sup> variety with increased yield over Scepter <sup>(b)</sup> . The highest-yielding Clearfield <sup>(e)</sup> wheat variety in Western Australia, South Australia and Victoria. Tolerant to Clearfield <sup>(e)</sup> Intervix <sup>(e)</sup> herbicide. Similar disease resistance profile to Scepter <sup>(b)</sup> . Similar grain size and test weight as Scepter <sup>(b)</sup> . Mid-season maturity, similar to Scepter <sup>(b)</sup> . APW quality classification in SA, Victoria, southern NSW, classification for WA pending.

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

Refer to the latest *Crop Sowing Guide* for further information at <a href="https://nxt.grdc.com.au/resources/crop-sowing-guides">nxt.grdc.com.au/resources/crop-sowing-guides</a>



#### Wheat variety yield performance – Esperance

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: Gibson r	nain sea	son whe	eat.		
Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	4.33	4.78	5.53	5.07	2.43
Tomahawk CL Plus®*				108	116
Vixen <sup>(b)</sup>	107	117	105	103	121
Thumper <sup>(b)</sup>					105
Brumby <sup>(b)</sup>			108	107	105
RockStar <sup>(b)</sup>	113	106	111	108	98
Scepter <sup>()</sup>	108	111	107	105	110
Devil <sup>(b)</sup>	110	109	107	107	106
LRPB Matador <sup>(b)</sup>				106	106
LRPB Havoc <sup>(b)</sup>	103	115	106	99	121
Ninja <sup>(b)</sup>	107	107	108	105	104
Sting <sup>(b)</sup>	104	112	102	103	115
Calibre <sup>(b)</sup>		107	102	106	106
Ballista <sup>(b)</sup>	104		103	106	107
Zen <sup>®</sup>	105	106	107	100	105
Kinsei <sup>(b)</sup>	108	99	106	106	92
Sowing date	8 May	12 May	14 May	16 May	21 May
Rainfall J-M (mm)	20	82	51	44	44
Rainfall A–O (mm)	352	346	510	521	451

Special thanks to 2023 trial cooperator, Ash Reichstein.

Table 2: Mt. Madden main season wheat.											
Year	2019	2020	2021	2022	2023						
Mean yield (t/ha)	1.18	2.59	3.27	2.46							
Tomahawk CL Plus®*				118							
Vixen <sup>(b)</sup>	136	115	114	114							
Calibre <sup>(b)</sup>		110	113	114							
Sting <sup>(b)</sup>	133	111	111	112							
LRPB Avenger <sup>(b)</sup>	140	110		108							
Devil <sup>(b)</sup>	115	110	111	112	<u>ia</u>						
Brumby <sup>(b)</sup>		111		112	Compromised trial						
Scepter <sup>(b)</sup>	114	111	110	111	omis						
LRPB Anvil® CL Plus*		108	107	105	mprc						
Ballista <sup>(b)</sup>	117		108	109							
LRPB Havoc <sup>(b)</sup>	112	111	105	106							
RockStar <sup>(b)</sup>	92	109	108	110							
Razor CL Plus®*	121	105	104	104							
Mace <sup>(b)</sup>	118	103	103	102							
Catapult <sup>(b)</sup>	104	101	105	104							
Sowing date	28 May	13 May	20 May	22 May	3 Jun						
Rainfall J–M (mm)	14	76	89	37	20						
Rainfall A-O (mm)	142	196	338	354	181						

Special thanks to 2023 trial cooperator, BR West & Co.

<sup>\*</sup> herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 3: Munglinup main season wheat.										
Year	2019	2020	2021	2022	2023					
Mean yield (t/ha)		2.69	3.05	3.42	2.30					
Tomahawk CL Plus®*				113	110					
RockStar <sup>(b)</sup>		117	112	115	102					
Denison <sup>(b)</sup>		118	104	119	97					
Brumby <sup>(b</sup>			112	111	105					
Devil®		110	111	109	106					
LRPB Matador <sup>(b)</sup>	<u>ia</u>			109	105					
Thumper <sup>(b)</sup>	Compromised tria				104					
Calibre <sup>(b)</sup>	simc	106	110	107	109					
Scepter <sup>(b)</sup>	mpro	107	110	107	106					
Kinsei <sup>(b)</sup>		114	105	110	98					
Catapult <sup>(b)</sup>		111	103	111	101					
Valiant <sup>(b)</sup> CL Plus*		115	99	115	94					
Ninja <sup>(b</sup>		109	107	106	101					
Vixen <sup>(b)</sup>		99	111	103	111					
Sting <sup>(b)</sup>		99	109	101	109					
Sowing date	9 May	7 May	19 May	17 May	24 May					
Rainfall J–M (mm)	21	83	68	50	31					
Rainfall A-O (mm)	292	314	431	584	357					

Special thanks to 2023 trial cooperator, Lawson Grains - Hakea.

Year	2019	2020	2021	2022	2023					
Mean yield (t/ha)		0.94		2.76	1.37					
Vixen <sup>(b)</sup>		156		111	121					
Tomahawk CL Plus <sup>(1)*</sup>				113	121					
LRPB Avenger <sup>(b)</sup>		155		108	120					
LRPB Anvil® CL Plus*		158		107	118					
Sting <sup>(b)</sup>		143		109	118					
Calibre <sup>(b)</sup>	<u>ia</u>	129	Compromised trial	109	119					
LRPB Havoc	Compromised trial	141		106	108					
Scepter <sup>(b)</sup>	omis	123		108	112					
Razor CL Plus <sup>(b*</sup>	mpro	135		104	109					
Devil <sup>(b)</sup>	의	116		108	113					
Brumby <sup>(b</sup>				108	112					
LRPB Matador <sup>(b)</sup>	]				111					
Mace <sup>(b)</sup>		125		103	108					
Ballista <sup>(b)</sup>				105	110					
Thumper <sup>(b)</sup>					109					
Sowing date	30 May	20 May	25 May	20 May	5 Jun					
Rainfall J–M (mm)	28	92	99	38	40					
Rainfall A-O (mm)	Rainfall A–O (mm) 159 158 269 299 168									

Special thanks to 2023 trial cooperator, Graham Family - Salmon Gums.



<sup>\*</sup> herbicide-tolerant variety. Learn more via the <u>NVT Long Term Yield Reporter</u>

<sup>\*</sup> herbicide-tolerant variety. Learn more via the <u>NVT Long Term Yield Reporter</u>

<sup>\*</sup> herbicide-tolerant variety. Learn more via the <u>NVT Long Term Yield Reporter</u>

Table 5: Scaddan main season wheat.										
Year	2019	2020	2021	2022	2023					
Mean yield (t/ha)		2.02	3.89	4.50	3.35					
Tomahawk CL Plus <sup>(b*</sup>				112	115					
Calibre <sup>(b)</sup>		119	110	107	113					
Vixen <sup>(b)</sup>		124	108	104	113					
Brumby <sup>(b)</sup>			111	110	109					
Devil <sup>(b)</sup>		112	110	109	110					
RockStar <sup>(b)</sup>		103	111	113	106					
Thumper <sup>(b)</sup>					107					
LRPB Matador	Trial failed				108					
Scepter <sup>(b)</sup>	lanca	113	108	107	109					
Sting <sup>(b)</sup>		120	107	103	111					
Firefly <sup>(b)</sup>			108		105					
LRPB Avenger®		122		99	112					
Ballista <sup>(b)</sup>			107	104	106					
Catapult <sup>()</sup>		102	105	107	105					
Ninja <sup>(†)</sup>		101	106	107	102					
Sowing date	10 May	3 Jun	18 May	4 May	22 May					
Rainfall J-M (mm)	16	48	51	44	36					
Rainfall A-O (mm)	278	249	510	521	225					

S	pecial	thanks	to	2023	trial	cooperator,	Taliska	Farms.
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Special thanks to 2023 trial cooperator, Ialiska ratilis.

\* herbicide-tolerant variety. Learn more via the <a href="MVT Long Term Yield Reporter">MVT Long Term Yield Reporter</a>

Table 6: Gibson early season wheat.										
Year	2019	2020	2021	2022	2023					
Mean yield (t/ha)	3.31	4.28		2.81						
Denison <sup>(b)</sup>		118		113						
Valiant <sup>(b)</sup> CL Plus*				111						
RockStar <sup>(b)</sup>	113	113		114						
Catapult <sup>(b)</sup>	122	108		110						
Kinsei <sup>(b)</sup>	117	111		110						
Mowhawk <sup>(b)</sup>				108						
Coota <sup>(b)</sup>		104	<b>.</b>	105						
Cutlass <sup>(b)</sup>	107	107	Trial failed	106	No trial					
Severn <sup>(b)</sup>			lanea	103						
Stockade <sup>(b)</sup>				107						
Longsword <sup>(b)</sup>	103	105		96						
EG Titanium	98	96		97						
LRPB Trojan®	107	87		98						
Magenta <sup>(b)</sup>	98	91		98						
Yitpi	99	92		95						
Sowing date	17 Apr	23 Apr	22 Apr	29 Apr						
Rainfall J-M (mm)	20	82	51	44						
Rainfall A-O (mm)	352	346	510	521						



No 2023 trial cooperator.
\* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

#### Wheat variety quality - Esperance

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 Esperance region. Only the varieties evaluated at every site are included. These are plotted in order of performance, up to a maximum of 20.

#### Protein and yield comparisons

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

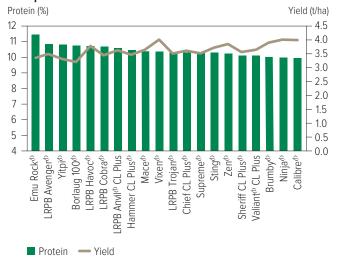


Figure 3: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from one NVT site in Esperance in 2022.

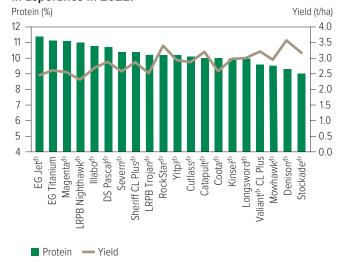


Figure 2: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from four NVT sites in Esperance in 2023.

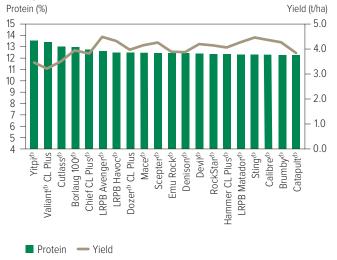
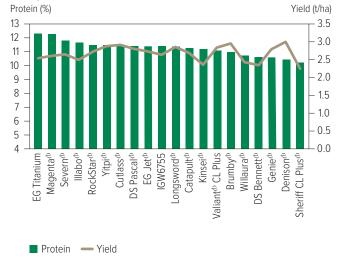


Figure 4: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from one NVT site in Esperance in 2023.





#### **Test weight comparisons**

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

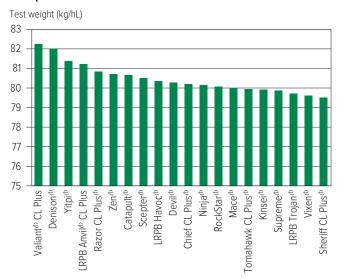


Figure 7: Test weight (kg/hL) comparisons for early season wheat varieties from one NVT site in Esperance in 2022.

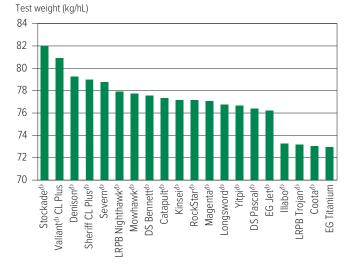


Figure 6: Test weight (kg/hL) comparisons for main season wheat varieties from four NVT sites in Esperance in 2023.

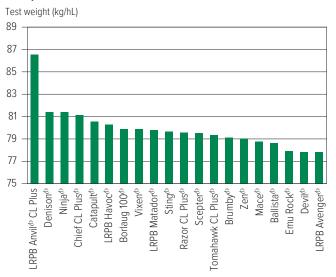
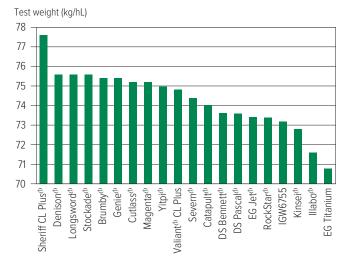


Figure 8: Test weight (kg/hL) comparisons for early season wheat varieties from one NVT site in Esperance in 2023.





**FIELD PEA** 

#### **Screenings comparisons**

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

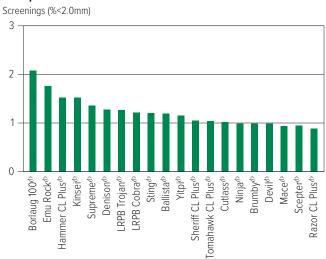


Figure 11: Screenings (<2.0mm) comparisons for early season wheat varieties from one NVT site in Esperance in 2022.

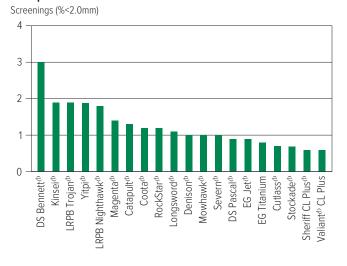


Figure 10: Screenings (<2.0mm) comparisons for main season wheat varieties from four NVT sites in Esperance in 2023.

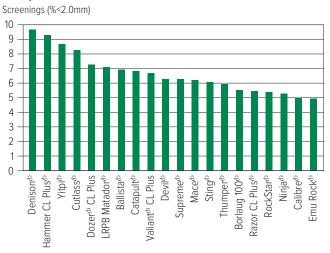
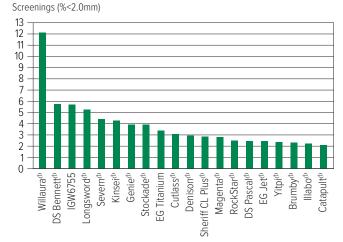


Figure 12: Screenings (<2.0mm) comparisons for early season wheat varieties from one NVT site in Esperance in 2023.





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 7: Wheat di	coaco ani	ida for W	ostorn A	uetralia								
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 (Pratylenchus neglectus)	RLN resistance (Pratylenchus quasitereoides)	CCN	Crown rot
Ballista <sup>(b)</sup>	MS	MS	MRMS	MR	RMR	S	S	SVS	S		MRMS	S
Boree <sup>(b)</sup>	MRMS	MS	MRMS	MR	MR	S	S	S	S		MSS	S
Borlaug 100 <sup>(b)</sup>	MRMS	MRMS	MRMS	MR	RMR	MR	S	MS	S		MS	MSS
Brumby <sup>(b</sup>	MRMS	MRMS	MS	MR	RMR	SVS	R	MSS (P)	MRMS	MS (P)	MRMS	S
Calibre <sup>(b)</sup>	MRMS	MSS	MSS	MR	RMR	S	MSS	S	S	MRMS (P)	MRMS	S
Catapult <sup>(b</sup>	MRMS	MRMS	MS	MR	RMR	S	S	MSS	S	MRMS	R	MSS
Chief CL Plus <sup>(b)</sup>	MRMS	MS	MRMS	MR	S	MR	S	MSS	MRMS	MRMS	MS	MSS
Coota <sup>(b</sup>	MSS	MRMS	MS	RMR	RMR	MR	S	MSS	MR		MR	MSS
Cutlass <sup>(b)</sup>	MSS	MRMS	MRMS	R	R	RMR	S	MSS	MSS	MS	MR	S
Denison <sup>(b)</sup>	MRMS	MR	MRMS	MS	MRMS	S	S	MS	S	MRMS (P)	MS	MSS
Devil <sup>®</sup>	MRMS	MRMS	MS	S	MR	SVS	SVS	SVS	MSS	MRMS	MSS	MSS
Dozer <sup>(b)</sup> CL Plus	MS	MRMS (P)	MSS (P)	MS	MRMS	MSS	MSS (P)	MSS (P)	MRMS		MS (P)	S
DS Bennett <sup>(b)</sup>	MRMS	MRMS	MR	MS	RMR	SVS	RMR	MR	S		S	VS
DS Pascal <sup>(b)</sup>	MS	MRMS	MRMS	MSS	RMR	MRMS#	RMR	MS	S		S	S
EG Jet <sup>(b)</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>(b)</sup>	MSS	MRMS	MRMS	MRMS	MRMS	MSS	MRMS	MRMS	S		S	S
Emu Rock <sup>®</sup>	MS	S	MS	MS	MRMS	SVS	MSS	S	MSS	MS (P)	S	MSS
Firefly <sup>(b)</sup>	MRMS	MRMS (P)	MSS (P)	S	MS	MSS	MSS (P)	MSS (P)	MS	( )	S (P)	S
Genie <sup>(b)</sup>	MRMS (P)	( )	( )	MS (P)	MR (P)	S (P)	( )	( )				
Hammer CL Plus <sup>(b)</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>(b)</sup>	MS	MR	MR	MRMS	RMR	S	R	MR	MSS	RMR	MRMS	S
Jillaroo <sup>(b</sup>	MS	MS	MS	MS	MR	S	S	MRMS (P)	S		MS	S
Kinsei <sup>(b)</sup>	MS	MRMS	MRMS	MSS	MRMS	MSS	S	MS	S	S	MSS	MSS
Longsword <sup>(b)</sup>	MRMS	MRMS	MRMS	MR	RMR	MS	MS	MRMS	MRMS	-	MRMS	MSS
LRPB Anvil® CL Plus	MSS	MSS	MSS	MR	RMR	SVS	MSS	SVS	MSS	S (P)	MS	MSS
LRPB Avenger <sup>(b)</sup>	MS	MSS	MS	MS	MRMS	S	S	S	MSS	MS (P)	MRMS	S
LRPB Havoc <sup>(b)</sup>	MRMS	MS	MS	S	MR	S	MS	MRMS	S	MRMS	S	MSS
LRPB Kittyhawk <sup>(b)</sup>	MRMS	MR (P)		MRMS (S)	RMR	MR	MRMS	MR	S		S	SVS
LRPB Matador <sup>(b)</sup>	MRMS	MRMS (P)	MSS (P)	MS	RMR	MSS	MS (P)	MSS (P)	S		MS (P)	S
LRPB Nighthawk <sup>(b)</sup>	MS	MRMS	MRMS	RMR	RMR	MSS	MSS	MR	MSS	MRMS (P)	MS	MSS
LRPB Nyala <sup>(b)</sup>	MS	MSS	MR	SVS	RMR	S	R	SVS	S		MSS	MSS
LRPB Oryx <sup>(b)</sup>	MSS	S	MSS	MR	RMR	RMR#	RMR	SVS	MSS	MSS (P)	S	MSS
LRPB Trojan <sup>(b)</sup>	MSS	MS	MS	MRMS	MR	MR#	S	S	MSS	MS (P)	MS	MS
Mace <sup>(b)</sup>	MRMS	MS	MS	MRMS	RMR	S	MSS	S	MS	MRMS	MRMS	S
Magenta <sup>(b)</sup>	MRMS	MRMS	MS	MR	MS	RMR	MRMS	MS	MSS	MSS	S	MSS
Ninja <sup>(b)</sup>	MRMS	MRMS	MS	S	MS	S	S	MSS	S	S	MS	S
Razor CL Plus <sup>(b)</sup>	MSS	MS	MS	MRMS	RMR	S	MSS	SVS	S		MR	S

Continued on next page





Table 7: 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	Sep <i>toria tritici</i> blotch	RLN resistance (Pratylenchus neglectus)	RLN resistance (Pratylenchus quasitereoides)	CCN	Crown rot
RGT Accroc <sup>(b)</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>(b)</sup>	MRMS	MRMS	MRMS	MRMS	RMR	S	MSS	S	MRMS	MS	MSS	S
Scepter <sup>(b)</sup>	MRMS	MRMS	MSS	MRMS	RMR	MSS	S	S	S	MS	MRMS	MSS
Severn <sup>(b)</sup>	MRMS	MR	MR (P)	MS	R	MRMS	R	MS (P)	S		MSS (P)	S
Sheriff CL Plus <sup>(h)</sup>	MRMS	MRMS	MRMS	MS	MRMS	SVS	SVS	S	MRMS	MRMS	MS	S
Sting <sup>(b)</sup>	MRMS	MS	MS	MRMS	MRMS	SVS	MSS	S	MS	MSS (P)	MS	MSS
Stockade <sup>(b)</sup>	MRMS	MRMS	MR	MS	RMR	MR	SVS	MS	S		MRMS	S
Supreme <sup>(b)</sup>	MS	S		MRMS	RMR	MR	MS	MSS	MSS		S	MSS
Thumper <sup>(b)</sup>	MS (P)			MS (P)	MR (P)	S (P)						
Tomahawk CL Plus <sup>(b)</sup>	MRMS	MRMS (P)	S (P)	MR	RMR	S	S (P)	MSS (P)	S		MRMS (P)	S
Valiant <sup>()</sup> CL Plus	MRMS	MR	MRMS	MR	R	S	SVS	MRMS	S	MSS (P)	MSS (P)	MSS
Vixen <sup>(b)</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>(b)</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>(b)</sup>	MRMS	MS	MRMS	S	MR	S	S	S	MRMS	MRMS	S	S

Learn more via the <u>NVT Disease Ratings</u>.

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. Please go to <a href="nvt.grdc.com.au">nvt.grdc.com.au</a> 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 mediumhigh 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>(b</sup>	Secobra Recherches		TBC	Released under code name SCA21-Y003.

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

Refer to the latest *Crop Sowing Guide* for further information at <a href="https://nxt.grdc.com.au/resources/crop-sowing-guides">nxt.grdc.com.au/resources/crop-sowing-guides</a>



#### **Barley variety yield performance – Esperance**

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: Gibson r	nain sea	son bar	ley.		
Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	5.30	5.50	6.11	5.71	2.69
Neo® CL*					101
Combat <sup>(b)</sup>			108	112	98
Cyclops <sup>(b)</sup>		107	107	106	113
Spinnaker <sup>(b)</sup>			105	110	93
RGT Planet <sup>(b)</sup>	110	110	106	108	89
Minotaur <sup>(b)</sup>		109	104	108	102
Zena <sup>(h)</sup> CL*			106	108	87
Rosalind <sup>(b)</sup>	105	104	102	107	104
Fandaga <sup>(b)</sup>				105	92
Laperouse <sup>(b)</sup>	102	102	103	101	110
Titan AX <sup>(b*</sup>				98	101
Leabrook <sup>(b</sup>	102	99	104	97	107
Maximus <sup>(b)</sup> CL*	99	99	98	102	115
Buff <sup>(b)</sup>	102	102	101	102	93
Bottler <sup>(b)</sup>	101	104	99	104	88
Sowing date	8 May	12 May	14 May	17 May	21 May
Rainfall J-M (mm)	20	82	51	44	44
Rainfall A–O (mm)	352	346	510	521	451

Special thanks to 2023 trial cooperator, Ash Reichstein.

<sup>\*</sup> herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 3: Munglinup main season barley.							
Year	2019	2020	2021	2022	2023		
Mean yield (t/ha)	2.96	2.62		4.38	3.27		
Neo® CL*					107		
Combat <sup>(b)</sup>				119	103		
Cyclops <sup>(b)</sup>		119		105	113		
Minotaur <sup>(b)</sup>		109		109	104		
Laperouse <sup>(b)</sup>	107	115		99	109		
Maximus <sup>(b)</sup> CL*	106	115		94	113		
Beast <sup>(b)</sup>	107	112		95	112		
Rosalind <sup>(b)</sup>	104	102	Trial failed	105	107		
Leabrook <sup>(b)</sup>	104	107	Ialleu	100	106		
Titan AX <sup>(b*</sup>				104	101		
Spinnaker <sup>(b)</sup>				113	98		
RGT Planet <sup>⊕</sup>	98	93		113	94		
Fandaga <sup>(b)</sup>				109	95		
Zena <sup>(b)</sup> CL*				114	92		
Spartacus CL®*	101	106		89	108		
Sowing date	9 May	7 May	17 May	17 May	24 May		
Rainfall J–M (mm)	21	83	68	50	31		
Rainfall A–O (mm)	292	314	431	584	357		

Special thanks to 2023 trial cooperator, Lawson Grains - Hakea.

Table 2: Mt. Mac	Table 2: Mt. Madden main season barley.								
Year	2019	2020	2021	2022	2023				
Mean yield (t/ha)	1.19	3.11	4.23	3.90					
Rosalind <sup>(b)</sup>	143	108	104	108					
Beast <sup>(b)</sup>	116	120	106	103					
Maximus <sup>(b)</sup> CL*	137	121	99	96					
Compass <sup>(b)</sup>	106	112	106	104					
Combat <sup>(b)</sup>			105	112					
Cyclops <sup>(b)</sup>		118	107	100	<u>ia</u>				
La Trobe <sup>(b)</sup>	129	108	101	101	Compromised trial				
Leabrook <sup>(b)</sup>	83	111	108	104	omis				
Spartacus CL <sup>(b*</sup>	135	114	97	94	mpr				
Minotaur <sup>(b)</sup>		105	102	103	잉				
Commodus <sup>(1)</sup> CL*		107	101	100					
Laperouse <sup>(b)</sup>	89	114	103	97					
Buff <sup>(b)</sup>	114	91	102	108					
Spinnaker <sup>(b)</sup>				107					
Fathom <sup>(b)</sup>	117	101	96	103					
Sowing date	28 May	13 May	20 May	22 May	3 Jun				
Rainfall J-M (mm)	14	76	89	37	20				
Rainfall A-O (mm)	160	196	338	354	181				

Special thanks to 2023 trial cooperator, BR West & Co.

 $<sup>^{\</sup>ast}$  herbicide-tolerant variety. Learn more via the  $\underline{\text{NVT Long Term Yield Reporter}}$ 

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		1.13		3.58	2.03
Beast <sup>(b)</sup>		152		112	124
Compass <sup>(b)</sup>		146		105	125
Maximus <sup>(b)</sup> CL*		145		111	105
Leabrook <sup>(b</sup>		118		106	122
Rosalind <sup>(b)</sup>		135		112	100
Cyclops <sup>(b)</sup>		111	Compromised trial	111	115
Combat <sup>(h)</sup>				110	115
Commodus <sup>(1)</sup> CL*	No trial	134		102	114
La Trobe <sup>(b)</sup>		135		105	104
Fathom <sup>(b)</sup>		132		100	113
Spartacus CL®*		138		105	99
Laperouse <sup>(b)</sup>		110		106	112
Titan AX <sup>(b*</sup>				101	119
Minotaur <sup>(b)</sup>		100		106	102
Buff <sup>(b)</sup>		101		101	96
Sowing date		20 May	25 May	20 May	5 Jun
Rainfall J-M (mm)		92	99	38	40
Rainfall A-O (mm)		158	269	299	168

Special thanks to 2023 trial cooperator, Graham Family – Salmon Gums.



<sup>\*</sup> herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

<sup>\*</sup> herbicide-tolerant variety. Learn more via the <u>NVT Long Term Yield Reporter</u>

Table 5: Scadda	n main s	eason b	arley.	Table 5: Scaddan main season barley.								
Year	2019	2020	2021	2022	2023							
Mean yield (t/ha)		2.09	4.58	4.45	3.33							
Beast <sup>(b)</sup>		129	112	106	113							
Cyclops <sup>(b)</sup>		120	108	113	112							
Combat <sup>(b)</sup>			110	116	100							
Leabrook <sup>(b</sup>		115	110	106	111							
Laperouse <sup>(b)</sup>		114	105	109	109							
Maximus <sup>(b)</sup> CL*	la la	125	104	104	109							
Compass <sup>(b)</sup>	Compromised tria	119	111	98	111							
Titan AX <sup>(b*</sup>	omis		108	107	106							
Neo® CL*	mpr				103							
Minotaur <sup>(b)</sup>	의	109	103	109	101							
Rosalind <sup>(b)</sup>		117	106	100	103							
Commodus <sup>(b)</sup> CL*		111	105	97	106							
Fathom <sup>(b)</sup>		110	104	103	98							
Spartacus CL <sup>(b*</sup>		114	100	97	105							
La Trobe <sup>(b)</sup>		111	103	95	105							
Sowing date	10 May	3 Jun	18 May	4 May	22 May							
Rainfall J-M (mm)	16	48	51	44	36							
Rainfall A-O (mm)	278	250	510	521	225							



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

#### **Barley variety quality – Esperance**

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 Esperance 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 five NVT sites in Esperance in 2022.

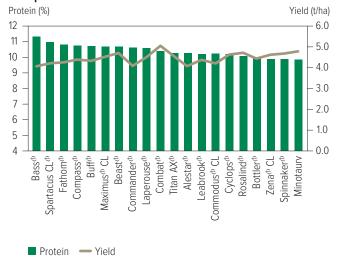
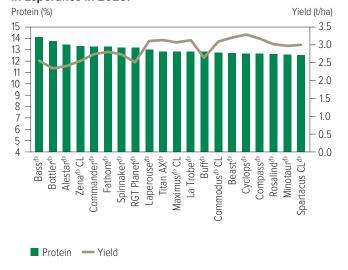


Figure 2: Protein (%) and yield (t/ha) comparisons for main season barley varieties from four NVT sites in Esperance in 2023.



#### **Test weight comparisons**

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

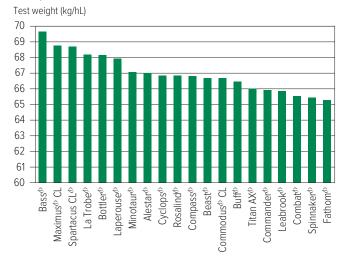
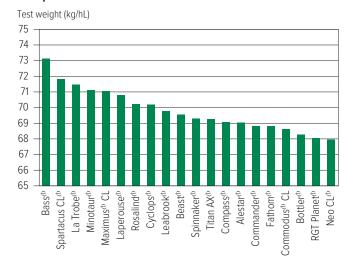


Figure 4: Test weight (kg/hL) comparisons for main season barley varieties from four NVT sites in Esperance in 2023.





**FIELD PEA** 

#### **Screenings comparisons**

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



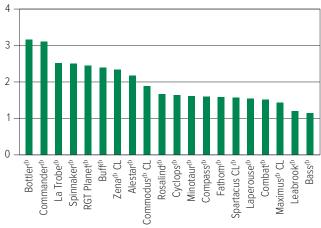
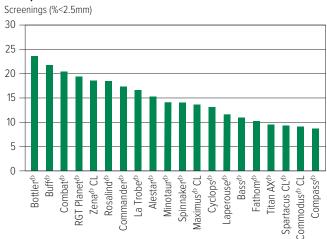
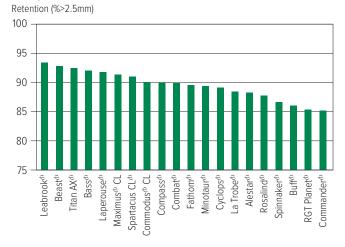


Figure 6: Screenings (<2.5mm) comparisons for main season barley varieties from four NVT sites in Esperance in 2023.

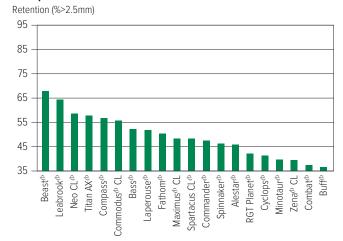


#### **Retention comparisons**

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



# Figure 8: Retention (>2.5mm) comparisons for main season barley varieties from four NVT sites in Esperance in 2023.





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 6: Barley dise	ase quide t	for Weste	rn Austra	lia.							
Variety	Scald	Net form net blotch	Spot form net blotch	Powdery mildew	Leaf rust	Crown rot resistance	Barley yellow dwarf virus	RLN resistance (Pratylenchus neglectus)	RLN resistance (Pratylenchus quasitereoides)	CCN	Ramularia
Alestar <sup>d</sup>	S	MRMS-S	S	RMR	MS	S	MRMS	MR		R^ (P)	SVS
Banks <sup>(b)</sup>	SVS	MRMS-MS	MSS	MR-MS	S	MSS	MRMS	MS	MSS	S	VS
Bass <sup>(b)</sup>	MRMS-MS	MRMS-S	MSS	MSS	SVS	MSS	MRMS	MS	MSS	S	VS
Beast <sup>(b)</sup>	S	MRMS-S	MSS	RMR	S	S	MSS	MRMS	MSS	MR	SVS
Bottler <sup>(h)</sup>	S	MRMS-MSS	MSS	RMR	MS	SVS	MS	MS			SVS
Buff <sup>(b)</sup>	MS	MRMS-MSS	S	MSS	S	S	MRMS	MRMS	S		SVS
Combat <sup>(b)</sup>	S	MRMS-S	MRMS	R	MRMS	S	MRMS-MS	MRMS	S (P)	MR	SVS
Commander <sup>(b)</sup>	MS	MRMS-S	MSS	RMR	MSS	S	MRMS-MS	MRMS		R	SVS
Commodus <sup>(b)</sup> CL	MSS	MRMS-S	MSS	RMR	S	S	MRMS-MS	MRMS	MS	R	SVS
Compass <sup>(b)</sup>	MS	MRMS-S	MSS	R	S	MSS	MSS	MRMS	S	R	SVS
Cyclops <sup>(b)</sup>	MRMS	MR-MS	MSS	R	S	MSS	S	MRMS	MSS (P)	S	SVS
Fairview <sup>(b)</sup>	S	MRMS-SVS	MSS	R	S	MSS	MRMS	MR			SVS
Fandaga <sup>(b)</sup>	SVS	R-MRMS	MSS	RMR	MS	MSS	MS	MR	MS (P)	R	VS
Fathom <sup>(b)</sup>	MR	MS-S	MR	MR	MS	SVS	MS	MRMS	MSS	R	SVS
Flinders <sup>(b)</sup>	MSS	MR-S	S	RMR	MS	MSS	MRMS-MS	MRMS	MSS (P)	S	SVS
Keel	MS	MRMS-S	MR	R-MRMS	SVS	S	MRMS-MS	MS		R	SVS
Kiwi	S	MRMS-MS	S	RMR	MS	MSS	MRMS-MS	MRMS		S	VS
La Trobe <sup>(b)</sup>	MR	MRMS-S	MSS	MS	MSS	S	S	MRMS	S	R	SVS
Laperouse <sup>(b)</sup>	S	MRMS-S	MS	RMR	MSS	S	MRMS	MRMS	MS	S	VS
Leabrook <sup>(b)</sup>	MSS	MRMS-S	MSS	RMR	S	S	MSS	MRMS	MS	RMR	VS
Litmus <sup>(b)</sup>	S	MRMS-S	S	R	S	S	S	MS	MSS (P)	MS	VS
Maximus <sup>(b)</sup> CL	MR	MRMS-S	MSS	RMR/S	MSS	S	MRMS	MRMS	S	R	VS
Minotaur <sup>(b)</sup>	VS	MRMS	S	S	S	MSS	S	MRMS	MS (P)	R	SVS
Neo <sup>⊕</sup> CL	MR (P)	MRMS-S (P)	MRMS (P)	R (P)	MSS (P)		MRMS (P)	RMR (P)	S (P)	R	SVS (P)
RGT Planet <sup>(b)</sup>	MR	MRMS-SVS	S	R	MRMS	MSS	MRMS	MRMS	MS	R (P)	SVS
Rosalind <sup>(b)</sup>	MSS	MR-S	S	MSS	MR	S	MRMS-MS	MRMS	MSS	R	VS
SakuraStar	MS	MRMS-S	MS	RMR	S	S	MRMS	MR	-	R	SVS
Scope CL®	MS	MRMS-S	MSS	RMR	MSS	S	MRMS	MRMS	MRMS	S	SVS
Spartacus CL®	RMR	MRMS-S	S	MS	MSS	S	S	MRMS	MSS	R	VS
Spinnaker <sup>(b</sup>	MR	MRMS-SVS	S	R	MS	S	MRMS	MR	MS (P)	S	VS
Titan AX <sup>(b)</sup>	S	MRMS-S	MSS	RMR	S	S	MS	MR	S (P)	MR (P)	VS
Topstart	MSS	MRMS-S	MSS	R	MS	MSS	MRMS	RMR		S	SVS
Urambie	RMR	MRMS	MSS	MRMS-MSS	MSS	MSS	MRMS	MRMS			VS
Westminster <sup>(b)</sup>	MR	MRMS-MSS	MSS	RMR	MRMS	MSS	MRMS-MS	MRMS			SVS
Yeti <sup>(h)</sup>	SVS	MR-S	MS	MR	S	S	MS	MR		RMR	VS
Zena <sup>(b)</sup> CL	MR	MRMS-SVS	S	R	MS	S	MRMS-MS	MRMS	MS (P)	R	VS

Learn more via the <u>NVT Disease Ratings</u>.

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, T = tolerant, MT = moderately tolerant, ML = moderately intellegent VL = very intellege

<sup>^</sup> line contains a few susceptible off types.



VHEAT

BARLE

O

KPEA

FABA BEAN

HELD PEA

19

MI = moderately intolerant, I = intolerant, VI = very intolerant, (P) = provisional rating, - hyphen indicates a range, / indicates pathotype differences,

## 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 <a href="https://nvt.grdc.com.au">nvt.grdc.com.au</a> 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>()</sup>	InterGrain	3.65	Archer <sup>(b)</sup> is a mid-maturing, single-gene imidazolinone-tolerant oaten hay variety. Sentry <sup>(B)</sup> is registered for pre-planting incorporation by seeding (IBS) for hay, forage, seed and grain (domestic feed market only) production for Archer <sup>(b)</sup> . Excess grain, seed and screenings produced from single-gene imidazolinone oaten hay varieties Kingbale <sup>(b)</sup> and Archer <sup>(b)</sup> can be used for the domestic oaten grain feed markets and/or consumed on-farm. Grain of these varieties cannot be delivered into bulk handling systems.
Kingbale <sup>(b)</sup>	InterGrain	3.65	Kingbale <sup>(b)</sup> is a mid-slow maturing, single-gene imidazolinone-tolerant oaten hay variety. Sentry <sup>(b)</sup> is registered for pre-planting incorporation by seeding (IBS) for hay, forage, seed and grain (domestic feed market only) production for Kingbale <sup>(b)</sup> . Excess grain, seed and screenings produced from Kingbale <sup>(b)</sup> and Archer <sup>(c)</sup> can be used for the domestic oaten grain feed markets and/or consumed on-farm. Grain of these varieties cannot be delivered into bulk handling systems.
Kultarr®	InterGrain	3.00	Kultarr <sup>©</sup> is a quick-mid maturing oaten hay suitable for low-medium production areas. Kultarr <sup>©</sup> has a tall plant height and a suitable hay quality profile for export hay.
Wallaby <sup>(†)</sup>	InterGrain	3.00	Wallaby <sup>(b)</sup> is a mid-maturing oaten hay well suited to medium and high production areas. Wallaby <sup>(b)</sup> has excellent hay yields.

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

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



#### Oat variety yield performance – Esperance

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: Gibson	Table 1: Gibson oat.									
Year	2019	2020	2021	2022	2023					
Mean yield (t/ha)	4.45	3.62	4.85	5.41	1.93					
Archer <sup>(b*</sup>					107					
Koala <sup>(b</sup>	110	119	113	116	81					
Wandering	112	117	106	107	112					
13008-18			108	107	116					
Bannister <sup>(b)</sup>	109	115	109	110	99					
Kojonup <sup>(b</sup>	107	122	110	108	86					
Williams <sup>(b)</sup>	112	114	101	105	106					
Wallaby <sup>(b)</sup>					77					
Bilby®	103	106	103	101	113					
Carrolup	94	86	86	88	95					
Sowing date	9 May	12 May	14 May	17 May	21 May					
Rainfall J-M (mm)	20	82	51	44	44					
Rainfall A–O (mm)	352	346	510	521	451					

Special:	thanks to	2023	trial	cooperator.	Δsh	Reichstein

<sup>\*</sup> herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 2: Holt Ro	Table 2: Holt Rock oat.								
Year	2019	2020	2021	2022	2023				
Mean yield (t/ha)	0.79	2.91	2.02	5.48	2.49				
13008-18			113	105	115				
Wandering	97	110	106	107	110				
Bannister <sup>(b)</sup>	84	109	105	110	103				
Koala <sup>(b)</sup>	50	107	101	117	94				
Bilby <sup>(b)</sup>	122	107	105	98	108				
Archer(b*					102				
Williams <sup>(b)</sup>	77	102	99	108	104				
Kojonup <sup>(b)</sup>	54	96	88	107	85				
Wallaby <sup>(b)</sup>					82				
Durack <sup>(b)</sup>	133	86	96	84	99				
Sowing date	22 May	4 May	21 May	27 Apr	7 May				
Rainfall J-M (mm)	13	75	98	100	13				
Rainfall A–O (mm)	163	155	287	331	185				

Special thanks to 2023 trial cooperator, Gavin and Hayley Hill.



 $<sup>^{</sup>st}$  herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

#### 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.

Variety	Septoria blotch	Leaf rust (crown rust)	Stem rust	Barley yellow dwarf virus (BYDV)	RLN resistance (Pratylenchus neglectus)	CCN
Archer <sup>()</sup>	MRMS (P)	MR (P)	S (P)	MSS (P)	SVS	
Bannister <sup>(b</sup>	MSS	MR	MSS	MS	MS	MR
Bilby <sup>(b)</sup>	S	MRMS	SVS	S	S	S
Brusher <sup>(b</sup>	MSS	MR	S	S	MSS	MR
Carrolup	MSS	VS	S	SVS	MRMS	VS
Durack <sup>(b</sup>	S	MRMS	S	S	MS	MRMS
Echidna	SVS	SVS	S	MSS	MSS	MS
Goldie <sup>(b)</sup>	MS	MR	S	MS	MSS	MR
Kingbale <sup>(b)</sup>	MSS	S	MSS	MS	MRMS	R
Koala <sup>(b</sup>	MSS	MR	MRMS	MSS	MS	R
Kojonup <sup>(b)</sup>	MSS	SVS	MSS	MS	MSS	VS
Kowari <sup>®</sup>	S	MR/MRMS	S	S	S	S
Kultarr <sup>(†)</sup>	MS (P)	MR (P)	SVS (P)	MSS (P)	MSS	
Mitika <sup>(b</sup>	SVS	MRMS	S	SVS	S	VS
Mulgara <sup>(b</sup>	S/MS	MR	MR	MSS	MSS	R
Tungoo <sup>(b</sup>	MRMS#	MR	MRMS	MSS	MSS	MR
Wallaby <sup>()</sup>	MS (P)	RMR (P)	MS (P)	MS (P)	MRMS	
Wandering	MSS	VS	SVS	MSS	S	VS
Williams <sup>(b)</sup>	MSS	MR	MSS	MSS	MRMS	S
Wintaroo	MS#	S	MR	MS	MSS	R
Yallara <sup>(†)</sup>	MSS	MR	S	S	MRMS	R

Learn more via the <u>NVT Disease Ratings</u>.

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.



## **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 <a href="nvt.grdc.com.au">nvt.grdc.com.au</a> 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
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® Defender CT	Advanta Seeds	N/A	A mid-season maturity CT hybrid, Defender CT delivers remarkable grain yield, robust plant vigour and a very high grain oil content. Defender CT performance is closely aligned with the renowned Hyola® Blazer TT variety. Defender CT offers uniform flowering, manageable height for direct harvesting and an exceptional blackleg rating of 'R-MR' due to its distinctive tri-group resistance, ADF.
InVigor® LR 4540P	BASF Australia Ltd	N/A	New LibertyLink® hybrid with tolerance to both Liberty® and TruFlex®. Combines two herbicide tolerances with the flexibility of PodGuard® for shatter tolerance. Early-mid maturing variety suited to low and medium-rainfall zones. Marketed by BASF.
Monola® H524TT	Nuseed	N/A	Monola® H524TT is an early-mid maturing TT hybrid with excellent early vigour. It is Nuseed's second Monola TT hybrid with improved yield and oil profile. It has demonstrated competitive yield and oil content to commercial canola TT hybrids during trials and exhibits strong early vigour and good early biomass. Suited to medium to slow canola growing regions, Monola® H524TT demonstrates strong blackleg resistance and good harvestability. Limited commercial release in 2024.
PY323G	Pioneer Hi-Bred Aust	N/A	Pioneer® PY323G is an early maturing Optimum GLY® hybrid variety. Suited to early-mid and mid-season growing regions. Mid-fast phenology. Medium height. Blackleg resistance rating NA, resistance group NA. Tested in NVT trials 2023. Marketed by Pioneer Seeds.
PY422G	Pioneer Hi-Bred Aust	N/A	Pioneer® PY422G is an early-mid maturing Optimum GLY® hybrid variety. Suited to early-mid and mid-season growing regions. Mid-fast phenology. Medium height. Blackleg resistance rating NA, resistance group NA. Tested in NVT trials 2023. Marketed by Pioneer Seeds.
PY424GC	Pioneer Hi-Bred Aust	N/A	Variety description not supplied.
PY525G	Pioneer Hi-Bred Aust	N/A	Pioneer® PY525G is a mid-maturing Optimum GLY® hybrid variety. Suited to mid-season growing regions. Mid-phenology. Medium-tall height. Blackleg resistance rating NA, resistance group NA. Tested in NVT trials 2023. Marketed by Pioneer Seeds.

<sup>\*</sup> EPR amount is ex-GST, <sup>(b)</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.

Refer to the latest *Crop Sowing Guide* for further information at <a href="nvt.grdc.com.au/resources/crop-sowing-guides">nvt.grdc.com.au/resources/crop-sowing-guides</a>



#### Canola variety yield performance – Esperance

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: Gibson r	ned-higl	h rainfal	GLY.		
Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	3.21	2.94	3.30		
Pioneer® 45Y28 RR		107	114		
Nuseed® Condor TF	104	108	112		
Nuseed® Eagle TF			113		
Hyola® Regiment XC			110	Compromised trial	
Nuseed® Raptor TF	102	105	109	nisec	Trial
Pioneer® 44Y30 RR		106	101	pron	failed
InVigor® R 4520P	107	107	98	Com	
DG Drummond TF			107		
DG Hotham TF			105		
Hyola® Garrison XC	96	97	101		
Sowing date	3 May	22 Apr	3 May	30 Apr	28 Apr
Rainfall J-M (mm)	20	82	51	44	44
Rainfall A-O (mm)	352	346	510	521	451

Special thanks to 2023 trial cooperator, Ash Reichstein. Learn more via the <u>NVT Long Term Yield Reporter</u>

Table 2: Munglir	nup med	-high rai	nfall GL	<b>/</b> .	
Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.87	3.11	2.77		2.20
Nuseed® Hunter TF					107
InVigor® LR 4540P					108
InVigor® R 4520P	107	103	111		107
Pioneer® 44Y30 RR		102	111		106
Pioneer® 45Y28 RR		109	104	Trial	104
Nuseed® Eagle TF			103	failed	104
Nuseed® Raptor TF	104	104	103		103
Hyola® Regiment XC				102	
InVigor® R 4022P	103	95	105		101
PY525G					99
Sowing date	29 Apr	30 Apr	23 Apr	28 Apr	30 Apr
Rainfall J-M (mm)	21	83	68	50	31
Rainfall A–O (mm)	292	314	431	584	357

Special thanks to 2023 trial cooperator, Lawson Grains – Hakea. Learn more via the <u>NVT Long Term Yield Reporter</u>

Table 3: Scadda	n med-h	igh rainf	all GLY.		
Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		2.60	2.85	2.77	1.64
InVigor® LR 4540P				106	113
Nuseed® Hunter TF				105	109
InVigor® R 4520P		107	104	106	108
Pioneer® 44Y30 RR			104	105	106
PY323G	No trial				106
Pioneer® 44Y27 (RR)	INO UIdi	105	102	103	106
Pioneer® 45Y28 RR					99
Nuseed® Emu TF				97	113
Nuseed® Eagle TF				104	99
Nuseed® Raptor TF		105	101	102	102
Sowing date		23 Apr	26 Apr	14 Apr	25 Apr
Rainfall J-M (mm)		48	51	27	36
Rainfall A-O (mm)		250	510	322	225

Special thanks to 2023 trial cooperator, Taliska Farms. Learn more via the <u>NVT Long Term Yield Reporter</u>

Year	2019	2020	2021	2022	2023				
Mean yield (t/ha)		3.08	3.30						
Pioneer® 45Y95 (CL)			119						
Pioneer® 44Y94 CL		113	113						
Pioneer® 45Y93 CL		108	115						
Hyola® Solstice CL			109	tria					
Pioneer® 44Y90 (CL)	No trial	105		Compromised tria	Trial				
Pioneer® 43Y92 (CL)	INU LIIdi	103		pron	failed				
Pioneer® 45Y91 (CL)		98		Com					
Hyola® Equinox CL		103	98						
VICTORY® V75-03CL	]	92	95						
VICTORY® V7002CL		87							
Sowing date		22 Apr	3 May	30 Apr	28 Арі				
Rainfall J–M (mm)		82	51	44	44				
Rainfall A–O (mm)		346	510	521	451				

Special thanks to 2023 trial cooperator, Ash Reichstein.

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 <a href="NVT Long Term Yield Reporter">NVT Long Term Yield Reporter</a>



Table 5: Gibson	med-hig	h rainfa	II TT.		
Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	3.07	2.87	3.20		
HyTTec® Trifecta	109	115	119		
Hyola® Blazer TT		115	118		
PY520TC			118		
HyTTec® Trophy	108	113	113	Compromised trial	
SF Dynatron TT			109	nisec	Trial
InVigor® T 4511			106	pron	failed
InVigor® T 4510	106	108	102	Comi	
DG Bidgee TT <sup>(b)</sup>			114		
InVigor® T 6010	103	104	108		
RGT Capacity TT			104		
Sowing date	3 May	22 Apr	3 May	30 Apr	28 Apr
Rainfall J–M (mm)	20	82	51	44	44
Rainfall A–O (mm)	352	346	510	521	451

Special thanks to 2023 trial cooperator, Ash Reichstein. Learn more via the <u>NVT Long Term Yield Reporter</u>

Table 6: Munglii	าup med	-high rai	nfall TT.				
Year	2019	2020	2021	2022	2023		
Mean yield (t/ha)	1.94	2.78	2.37	2.62	1.93		
HyTTec® Trifecta	109	116	114	111	112		
Hyola® Blazer TT		115	117	107	112		
HyTTec® Trophy	109	110	116	106	111		
PY520TC			113	104	110		
SF Dynatron TT			116	103	110		
Hyola® Defender CT				101	110		
InVigor® T 4510	107	103	113	104	108		
InVigor® T 4511			110	105	107		
RGT Baseline® TT			105	104	105		
RGT Capacity TT	103		108	104	105		
Sowing date	29 Apr	30 Apr	23 Apr	28 Apr	30 Apr		
Rainfall J–M (mm)	21	83	68	50	31		
Rainfall A–O (mm)	292	314	431	584	357		

Special thanks to 2023 trial cooperator, Lawson Grains – Hakea. Learn more via the NVT Long Term Yield Reporter

Table 7: Scadda	n med-h	igh rainf	all TT.			
Year	2019	2020	2021	2022	2023	
Mean yield (t/ha)	0.86	2.36	2.69	2.46	1.47	
HyTTec® Trident	114	115	105	107	114	
HyTTec® Trifecta				110	106	
Hyola® Blazer TT	112	111	107	112	104	
HyTTec® Trophy	112	112	105	109	108	
HyTTec® Velocity				105	115	
SF Dynatron TT	107	108	106	110	106	
InVigor® T 4510	107	109	104	106	109	
PY520TC					101	
Hyola® Defender CT				111	100	
InVigor® T 4511			103	105	106	
Sowing date	7 May	23 Apr	26 Apr	14 Apr	25 Apr	
Rainfall J–M (mm)	16	48	27	36		
Rainfall A-O (mm)	278	250	510	322	225	

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

Table 8: Mt. Mad	lden low	/-med ra	infall TT.		
Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.28		1.94	3.16	
Hyola® Blazer TT				116	
SF Dynatron TT	113			115	
HyTTec® Trident	101		120	110	
InVigor® LT 4530P				110	
Hyola® Defender CT		Trial		112	Trial
HyTTec® Trophy	103	failed		110	failed
InVigor® T 4510	105		112	107	
HyTTec® Velocity				103	
Renegade TT <sup>(b)</sup>			98	104	
Hyola® Enforcer CT	100			107	
Sowing date	30 Apr	1 May	23 Apr	19 Apr	6 May
Rainfall J-M (mm)	14	76	89	37	20
Rainfall A-O (mm)	160	196	338	354	181

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



## Australian canola variety disease ratings

The following table contains varietal ratings for blackleg disease of canola.

These ratings are updated twice a year by crop pathologists and were released in autumn 2024.

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

	2024 Blackleg	2024 Blackleg	2024 Blackleg		Section A – resistance						Se	ection E	3 – resis	tance g	roup of	previou	ıs year's	cultiva	r (stubb	le)					
Variety	rating Bare	rating ILeVo®	rating Saltro®	Туре	group of cultivar	Α	В	С	AB	AC	AD	ABC	ABD	ABF	ABS	ABDF	ABDS	ADF	BF	ВС	Н	АН	ACH	ABH	ADFH
CONVENTIONAL VAI		12010	- Canaro	Туре																					
Outlaw <sup>(b)</sup>	RMR			Open pollinated	А																				
Nuseed® Quartz	RMR			Hybrid	ABD																				
Nuseed® Diamond	RMR	R	R	Hybrid	ABF																				
TRIAZINE-TOLERAN			K	Пурпа	ADI																				
HyTTec® Trifecta	R			Hybrid	ABD																				
	R			Hybrid	AD																				
HyTTec® Trident  Monola® H524TT	R			High stability oil, hybrid	AD																				
DG Bidgee TT <sup>(b)</sup>	R	R	R	Open pollinated	H																				
HyTTec® Trophy	R	R	R	Hybrid	AD																				
DG Torrens TT <sup>(b)</sup>	RMR	IX	IX	Open pollinated	H																				
Hyola® Blazer TT	RMR		R	Hybrid	ADF																				
InVigor® T 4511	RMR	R	IX.	Hybrid	Different blace	klen re	sistance	nattern	further	testina	required	Effectiv	ve rotati	on with	evistina	arouns	currently	/ unknov	wn						
Monola® H421TT	RMR	IX		High stability oil, hybrid	BC BC	ikieg re	Sistance	pattern	, rurtirer	testing	required	. Ellecti	Verotati	OII WILLI	CAISTING	groups	Currenting	dikilov	VIII						
ATR-Bluefin <sup>(b)</sup>	RMR			Open pollinated	AB																				
DG Avon TT <sup>(b)</sup>	MR	R	R	Open pollinated	AC																				
SF Spark™ TT	MR	R	R	Hybrid	ABDS																				
InVigor® T 4510	MR	R	R	Hybrid	BF																				
Renegade TT®	MR			Open pollinated	A																				
HyTTec® Velocity	MR			Hybrid	AB																				
Monola® 422TT	MRMS			Open pollinated	ВС																				
ATR-Swordfish®	MRMS			Open pollinated	AB																				
SF Dynatron™ TT	MRMS	R	R	Hybrid	ВС																				
RGT Baseline™ TT	MRMS	R	R	Hybrid	В																				
Bandit TT <sup>⊕</sup>	MRMS	R	R	Open pollinated	А																				
RGT Capacity™ TT	MRMS	RMR	R	Hybrid	В																				
AFP Cutubury®	MS	MR	RMR	Open pollinated	AB																				
ATR-Bonito®	MS	RMR	R	Open pollinated	A																				



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	2024 Blackleg	2024 Blackleg	2024 Blackleg		Section A – resistance						Se	ection B	– resis	tance gı	oup of	previou	s year's	cultiva	(stubb	le)					
Variety	rating Bare	rating ILeVo®	rating	Туре	group of cultivar	Α	В	С	AB	AC	AD	ABC	ABD	ABF	ABS	ABDF	ABDS	ADF	BF	ВС	Н	АН	ACH	АВН	ADF
IMIDAZOLINONE-TOL	ERANT VA	RIETIES																							
Hyola® Continuum CL	R		R	Hybrid, Clearfield®	ADF																				
Hyola® Solstice CL	R		R	Hybrid, Clearfield®	ADFH																				
Captain CL	R			Winter, hybrid, Clearfield®	AH																				
Hyola® Feast CL	R		R	Winter, hybrid, Clearfield®	Н																				
RGT Nizza™ CL	R			Winter, hybrid, Clearfield®	В																				
Hyola® 970CL	R		R	Winter, hybrid, Clearfield®	Н																				
Phoenix CL	R			Winter, hybrid, Clearfield®	В																				
Pioneer® 45Y93 CL	R		R	Hybrid, Clearfield®	ВС																				
RGT Clavier™ CL	R			Winter, hybrid, Clearfield®	ACH																				
Pioneer® PN526C	RMR			High stability oil, Hybrid, Clearfield®	ABD																				
Pioneer® 45Y95 CL	RMR		R	Hybrid, Clearfield®	С																				
Nuseed® Ceres IMI	RMR			Hybrid	AD																				
Pioneer® 43Y92 CL	RMR		R	Hybrid, Clearfield®	В																				
Pioneer® 44Y94 CL	RMR		R	Hybrid, Clearfield®	ВС																				
Pioneer® PY421C	RMR		R	Hybrid, Clearfield®	А																				
VICTORY® V75-03CL	RMR			High stability oil, hybrid, Clearfield®	AB																				
IMIDAZOLINONE ANI	TRIAZINE	-TOLERAN	T VARIETIE	ES .																					
Hyola® Defender CT	R		R	Hybrid, Clearfield®, Triazine	ADF																				
Hyola® Enforcer CT	R			Hybrid, Clearfield®, Triazine	ADF																				
Pioneer® PY520 TC	MR		R	Hybrid, Clearfield®, Triazine	BC																				
GLYPHOSATE-TOLER	ANT VARIE	TIES																							
DG Hotham TF	R			Hybrid, TruFlex®	ABH																				
Nuseed® Raptor TF	R			Hybrid, TruFlex®	AD																				
Nuseed® Eagle TF	R			Hybrid, TruFlex®	ABD																				
VICTORY® V55-04TF	R		R	High stability oil, hybrid, TruFlex®	AB																				
DG Lofty TF	R			Hybrid, TruFlex®	ABH																				
Nuseed® Hunter TF	RMR			Hybrid, TruFlex®	AB																				
Pioneer® 45Y28 RR	RMR		R	Hybrid, Roundup Ready®	BC																				
Pioneer® 44Y27 RR	RMR		R	Hybrid, Roundup Ready®	В																				
Pioneer® 44Y30 RR	RMR		R	Hybrid, Roundup Ready®	AB																				
Pioneer® PY422G	MR		R	Hybrid, Optimum GLY®	AB																				
Nuseed® Emu TF	MR			Hybrid, TruFlex®	AB																				
Pioneer® PY525G	MR		R	Hybrid, Optimum GLY®	AB																				



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#### **CANOLA**

Table 9: Canola	disease	guide –	2024 a	utumn blackleg ratings and resi	stance gro	ups (c	ontinu	ıed).													
Variety	2024 Blackleg rating Bare	2024 Blackleg rating ILeVo®	rating	Туре	Section A – resistance group of cultivar	Section B – resistance group of previous year's cultivar (stubble)  A B C AB AC AD ABC ABD ABF ABS ABDF ABDS ADF BF BC H AH ACH A										АВН	ADFH				
GLYPHOSATE-TOLER	ANT VARIE	TIES																			
InVigor® R 4022P	MRMS	R		Hybrid, TruFlex®	ABC																
InVigor® R 4520P	MRMS	R		Hybrid, Truflex®	В																
Pioneer® PY323G	MRMS		R	Hybrid, Optimum GLY®	ВС																
GLYPHOSATE AND IM	IIDAZOLIN	ONE-TOLE	RANT VAR	IETIES																	
Hyola® Regiment XC	R		R	Hybrid, TruFlex®, Clearfield®	ADFH																
Hyola® Battalion XC	RMR			Hybrid, TruFlex®, Clearfield®	ADF																
Hyola® Garrison XC	RMR		R	Hybrid, TruFlex®, Clearfield®	ADF																
GLUFOSINATE AND T	RIAZINE-TO	OLERANT '	VARIETIES																		
InVigor® LT 4530P	RMR	R		Hybrid, LibertyLink®, Triazine	BF																
GLUFOSINATE AND G	SLYPHOSAT	E-TOLERA	NT VARIET	TES																	
InVigor® LR 4540P	RMR	R		Hybrid, LibertyLink®, TruFlex®	В																

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

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

Red = not advised (all resistance genes in common)

Please check updated ratings using the  $\underline{\text{Blackleg Management Guide}}$  or the  $\underline{\text{NVT Disease Ratings}}$ .



## **CHICKPEA**

#### Chickpea variety yield performance – Esperance

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: Scaddan desi chickpea.									
Year	2019	2020	2021	2022	2023				
Mean yield (t/ha)		1.18	0.80	1.12	1.03				
PBA Slasher <sup>(b)</sup>		107	119	107	108				
PBA Striker <sup>(b)</sup>		105	138	94	102				
Neelam <sup>(b)</sup>		99	107	96	98				
Genesis™ 836		95	87	102	99				
CBA Captain <sup>(b)</sup>	No trial	101	102	85	92				
PBA Maiden <sup>®</sup>		96	106	83	95				
Genesis™ 090		80	89	99					
PBA Seamer <sup>(b)</sup>				89					
Sowing date		3 Jun	13 May	18 May	29 May				
Rainfall J-M (mm)		48	51	44	36				
Rainfall A-O (mm)		250	510	521	225				

Special thanks to 2023 trial cooperator, Egan Farming. Learn more via the <u>NVT Long Term Yield Reporter</u>

Refer to the latest *Crop Sowing Guide* for further information at <a href="nvt.grdc.com.au/resources/crop-sowing-guides">nvt.grdc.com.au/resources/crop-sowing-guides</a>



#### Chickpea variety disease ratings – Western Australia

The following table contains varietal ratings for the predominant diseases of chickpea 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: Chickpea disease guide for Western Australia.										
Variety		light (pathogen 2 – north)	2022-23 Phytophthora root rot	RLN resistance (Pratylenchus neglectus)	RLN tolerance (Pratylenchus neglectus)					
DESI										
CBA Captain <sup>(b</sup>		MS	S	MR	MT					
Genesis™ 836		S		MR	MII					
Kyabra <sup>(†)</sup>		VS	VS	MRMS	MT					
Neelam <sup>(b)</sup>		S		MRMS	MI					
PBA Boundary <sup>(b)</sup>		S	VS	RMR	MI					
PBA Drummond <sup>(b)</sup>		VS	VS	MR	TMT					
PBA HatTrick <sup>(b)</sup>		S	S	MRMS	MT					
PBA Maiden <sup>(b)</sup>		S		MRMS	MI					
PBA Pistol <sup>(b)</sup>		VS		RMR	T					
PBA Seamer <sup>(b)</sup>		MS	S	MRMS	MI					
PBA Slasher <sup>(b)</sup>		S		MRMS	MI					
PBA Striker <sup>(b)</sup>		S		MRMS	MI					
KABULI										
Almaz <sup>(b)</sup>		MS		MRMS	MII					
Genesis™ 090		MS		MRMS	IVI					
Genesis™ Kalkee		S		MRMS	VI					
PBA Magnus <sup>(b</sup>		MS		MR	MII					
PBA Monarch <sup>(b)</sup>		MS		MRMS	I					
PBA Royal <sup>(b)</sup>		MS		MR	VI					

 $\label{eq:local_local_local_local} Learn \ more \ via \ the \ \frac{NVT \ Disease \ Ratings}{NR}. R = resistant, \ MR = moderately \ resistant, \ MS = moderately \ susceptible, \ S = susceptible, \ VS = very \ susceptible, \ S = susceptible, \$ 

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



## **FABA BEAN**

#### Faba bean variety yield performance – Esperance

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: Scaddan faba bean.								
Year	2019	2020	2021	2022	2023			
Mean yield (t/ha)		1.98	2.53	2.31	1.51			
PBA Bendoc <sup>(b*</sup>		99	101	96	105			
PBA Marne <sup>(b)</sup>		107	99	101	85			
Nura <sup>(b)</sup>		97	97	93	103			
PBA Zahra <sup>(b)</sup>		93	100	93	98			
PBA Samira <sup>(b)</sup>	No trial	93	97	93	97			
Farah <sup>(b</sup>		95	96	92	95			
Fiesta VF		95	95	92	94			
PBA Amberley <sup>(b)</sup>		90	96	91	98			
PBA Rana <sup>(b)</sup>			86	85	102			
Sowing date		23 April	29 April	2 May	29 May			
Rainfall J-M (mm)		48	51	44	36			
Rainfall A-O (mm)		250	510	521	225			

Special thanks to 2023 trial cooperator, Egan Farming.

Refer to the latest *Crop Sowing Guide* for further information at <a href="nvt.grdc.com.au/resources/crop-sowing-guides">nvt.grdc.com.au/resources/crop-sowing-guides</a>



 $<sup>^{\</sup>ast}$  herbicide-tolerant variety. Learn more via the  $\underline{\text{NVT Long Term Yield Reporter}}$ 

#### 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 2: Faba bean disease guide for Western Australia.								
Variety	Ascochyta blight	Cercospora leaf spot	Chocolate spot (Botrytis)	RLN resistance (Pratylenchus thornei)	Leaf rust			
Cairo	VS	S	S	MSS	S			
Doza	VS	S	S	MSS	MR			
Farah <sup>(b)</sup>	MS	S	S	MS	VS			
FBA Ayla <sup>(b)</sup>		S	S	MRMS	MR			
Fiesta VF	S	S	S	MS	VS			
Nura <sup>(b)</sup>	MR (P)	S	MS	MS	VS			
PBA Amberley <sup>(b)</sup>	MR	S	MRMS	MRMS	VS			
PBA Bendoc <sup>®</sup>	MR	S	S	MRMS	VS			
PBA Marne®	MS	S	MS (P)	MS	MRMS			
PBA Nanu®		S	S	MRMS	MR			
PBA Nasma <sup>(b</sup>	S	S	S	MSS	MRMS			
PBA Rana <sup>(b)</sup>	MRMS (P)	S	MS	MS	VS			
PBA Samira <sup>(b</sup>	MR (P)	S	MS	MRMS	S			
PBA Warda <sup>(b</sup>	S	S	S	MRMS	MRMS			
PBA Zahra <sup>(b)</sup>	MRMS	S	MS	MRMS	S			

Learn more via the <u>NVT Disease Ratings</u>.

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



## **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 <a href="nvt.grdc.com.au">nvt.grdc.com.au</a> 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>(b)</sup>	Agriculture Victoria	TBC	APB Bondi <sup>®</sup> (tested as OZP1903) is a Kaspa-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 Kaspa pea.

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

Refer to the latest *Crop Sowing Guide* for further information at <a href="https://nxt.grdc.com.au/resources/crop-sowing-guides">nxt.grdc.com.au/resources/crop-sowing-guides</a>



#### Field pea variety yield performance – Esperance

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: Grass Patch field pea.									
Year	2019	2020	2021	2022	2023				
Mean yield (t/ha)	0.25	0.47	2.06	1.82	1.27				
APB Bondi		111	106	108	98				
PBA Butler®	92	105	107	101	103				
PBA Oura®	121	100	100	98	106				
PBA Taylor <sup>(b)</sup>	102	104	98	93	98				
PBA Twilight <sup>(b)</sup>	130	100	89	94	97				
PBA Wharton®	122	102	90	91	95				
Kaspa	80	95	96	89	97				
PBA Gunyah <sup>(b)</sup>	103	97	93	86	99				
GIA Ourstar <sup>(b)*</sup>		86	86	93	96				
GIA Kastar <sup>()*</sup>		82	68	83	74				
Sowing date	14 June	27 May	25 May	20 May	4 June				
Rainfall J-M (mm)	28	92	99	38	40				
Rainfall A-O (mm)	159	158	269	299	168				

Special thanks to 2023 trial cooperator, Beau Graham.

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

Table 3: Scaddan field pea.								
Year	2019	2020	2021	2022	2023			
Mean yield (t/ha)	0.96	1.64	1.89	1.38	1.70			
APB Bondi <sup>(b)</sup>		112	114	118	98			
PBA Butler®	102	107	111	115	105			
PBA Taylor <sup>⟨b</sup>	107	104	104	99	100			
Kaspa	97	98	99	98	100			
PBA Oura <sup>(b)</sup>	100	94	93	86	106			
PBA Gunyah®	100	94	93	83	102			
PBA Wharton®	109	97	93	79	95			
PBA Twilight®	107	93	87	73	95			
GIA Ourstar <sup>()</sup> *		83	77	69	93			
GIA Kastar <sup>(1)*</sup>		86	76	66	71			
Sowing date	4 June	3 June	27 May	18 May	29 May			
Rainfall J–M (mm)	16	48	51	44	36			
Rainfall A-O (mm)	278	250	510	521	225			

Special thanks to 2023 trial cooperator.

Table 2: Holt Rock field pea.								
Year	2019	2020	2021	2022	2023			
Mean yield (t/ha)	0.76	1.23	0.93	1.35				
APB Bondi <sup>(b)</sup>		108	119	106				
PBA Butler <sup>(b)</sup>	107	103	113	107				
PBA Taylor <sup>(b)</sup>	111	104	102	99				
PBA Oura®	97	105	92	97				
PBA Wharton <sup>(b)</sup>	109	106	88	90	Trial			
Kaspa	98	93	94	98	failed			
PBA Gunyah <sup>(b)</sup>	100	99	86	94				
PBA Twilight <sup>(b)</sup>	103	105	83	88				
GIA Ourstar <sup>(b)*</sup>		90	71	87				
GIA Kastar <sup>(b*</sup>		79	61	75				
Sowing date	23 May	4 June	28 May	22 May	4 June			
Rainfall J-M (mm)	13	75	98	100	13			
Rainfall A–O (mm)	163	155	287	331	185			

Special thanks to 2023 trial cooperator.

<sup>\*</sup> herbicide-tolerant variety. Learn more via the <u>NVT Long Term Yield Reporter</u>

<sup>\*</sup> 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 4: Field pea disease guide for Western Australia.									
Variety	Bacterial blight	Downy mildew	Powdery mildew	RLN resistance (Pratylenchus neglectus)	RLN resistance (Pratylenchus thornei)				
APB Bondi <sup>(b)</sup>	S	RMR (S)	RMR	RMR	MSS				
GIA Kastar <sup>(b)</sup>	S	S	RMR	MR	MS				
GIA Ourstar <sup>(b)</sup>	S (P)	S	S	MRMS	MS				
Kaspa	S	S	S	RMR	MRMS				
PBA Butler <sup>(b)</sup>	MS	S	S	RMR	MRMS				
PBA Gunyah <sup>(b)</sup>	S	S	S	RMR	MRMS				
PBA Noosa <sup>(b)</sup>	S	MS	S	RMR	MRMS				
PBA Oura <sup>(b)</sup>	MS	S	S	MR	MRMS				
PBA Pearl	MS	S	S	MR	MRMS				
PBA Percy	MRMS	S	S	RMR	RMR				
PBA Taylor <sup>(b)</sup>	S	S	S	RMR	MRMS				
PBA Twilight <sup>(b)</sup>	S	S	S	MR	MRMS				
PBA Wharton <sup>(b)</sup>	S	S	RMR	MR	MRMS				
Sturt	MS	S	S	MR	MR				

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 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>()</sup>	Agriculture Victoria		ALB Terrier <sup>(b)</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.

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

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



#### Lentil variety yield performance - Esperance

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: Scaddan lentil.									
Year	2019	2020	2021	2022	2023				
Mean yield (t/ha)		0.53	1.80	1.13	0.79				
GIA Lightning <sup>()*</sup>		112	107	110	111				
PBA Bolt <sup>(b)</sup>		111	98	118	102				
PBA HighlandXT <sup>(b)*</sup>		105	99	109	107				
GIA Thunder <sup>(1)*</sup>		98	108	91	116				
PBA Hallmark XT <sup>()*</sup>	No trial	104	101	101	97				
ALB Terrier®	No trial		107	87	105				
GIA Sire <sup>(b*</sup>			90	114	80				
PBA Jumbo2 <sup>(b)</sup>		86	96	91	106				
PBA Hurricane XT <sup>(b*</sup>		91	97	93	93				
GIA Leader <sup>(b*</sup>		88	98	85	89				
Sowing date		11 May	13 May	18 May	29 May				
Rainfall J-M (mm)		48	51	44	36				
Rainfall A-O (mm)		250	510	521	225				

Special thanks to 2023 trial cooperator, Egan Farming.

Table 2: Lentil disease quide for Western Australia

### **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. Lettil 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 (Pratylenchus neglectus)	RLN resistance (Pratylenchus thornei)				
ALB Terrier®	MR (P)	R	MRMS (P)	MR	MR				
GIA Leader <sup>(b</sup>	MR (P)	MR (P)	MRMS (P)	MRMS (P)	MR (P)				
GIA Lightning <sup>(b)</sup>	MRMS (P)	R (P)	MS (P)	MRMS (P)	MR (P)				
GIA Metro <sup>(b)</sup>	RMR (P)	MR (P)	MRMS (P)	MR (P)	MRMS (P)				
GIA Sire®	MRMS (P)	R (P)	MS (P)	MRMS (P)	MRMS (P)				
GIA Thunder	MRMS (P)	R (P)	MRMS (P)	MR (P)	MR (P)				
Nipper <sup>(b)</sup>	MR	MRMS	MRMS	RMR	MR				
PBA Ace <sup>(b)</sup>	MR	R	MS	MR	MRMS				
PBA Bolt <sup>(b)</sup>	MRMS	MR	S	MR	MR				
PBA Hallmark XT <sup>(b)</sup>	MRMS	RMR	MRMS	MR	MRMS				
PBA HighlandXT <sup>(b)</sup>	MR (P)	MR	MS	MR	MRMS				
PBA Hurricane XT <sup>(b)</sup>	MRMS (P)	RMR	MS	MRMS	MRMS				
PBA Jumbo2 <sup>(b)</sup>	RMR	R	MR (P)	MR	MRMS				

Learn more via the NVT Disease Ratings

MRMS

MRMS



**MRMS** 

MRMS

<sup>\*</sup> herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

 $R = resistant, \ MR = \overline{moderately\ resistant}, \ MS = moderately\ susceptible, \ S = susceptible, \ VS = very\ susceptible, \ (P) = provisional\ rating.$ 

## **LUPIN**

#### **New Iupin 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 <a href="https://nvt.grdc.com.au">nvt.grdc.com.au</a> 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>(b)</sup>	Australian Grain Technologies	4.50	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	4.50	A very high yielding alternative to PBA Jurien <sup>(a)</sup> , Coyote <sup>(b)</sup> and Mandelup <sup>(b)</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>(b)</sup> . Taller plant height, may improve harvestability. Moderately resistant to stem Phomopsis. Good CMV resistance. Slightly slower maturity relative to PBA Jurien <sup>(b)</sup> , slightly quicker than Coyote <sup>(b)</sup> .

<sup>\*</sup> EPR amount is ex-GST,  $^{\phi}$  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.

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



#### Lupin variety yield performance - Esperance

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: Gibson narrow-leaf lupin.						
Year	2019	2020	2021	2022	2023	
Mean yield (t/ha)		2.11	1.73			
Gidgee <sup>(b)</sup>	No trial		113	Trial failed	Compromised trial	
PBA Jurien®		112				
Lawler <sup>(b)</sup>		113	107			
Coyote <sup>(b)</sup>		110	103			
Mandelup <sup>(b)</sup>		105	104			
PBA Bateman <sup>(b)</sup>		99	99			
PBA Barlock <sup>(b)</sup>		97	101			
PBA Leeman®		97	93			
PBA Gunyidi <sup>(b)</sup>		93	95			
Coromup <sup>(b)</sup>		92	89			
Sowing date		23 Apr	3 May	29 Apr	20 May	
Rainfall J–M (mm)		82	51	44	44	
Rainfall A-O (mm)		346	510	521	451	

Special thanks to 2023 trial cooperator, Ash Reichstein. Learn more via the <u>NVT Long Term Yield Reporter</u>

Table 2: Holt Rock narrow-leaf lupin.						
Year	2019	2020	2021	2022	2023	
Mean yield (t/ha)	1.22	1.22	1.86	2.70	0.93	
PBA Jurien <sup>(b)</sup>	106	106		116	100	
Rosemont <sup>(b)</sup>				112	97	
Gidgee <sup>(b)</sup>			113	113	95	
Lawler <sup>(b)</sup>		105	107	106	98	
PBA Barlock <sup>(b)</sup>	103	102	100	106	103	
Mandelup <sup>(b)</sup>	102	101	104	105	99	
Coyote <sup>(b)</sup>	101	109	103	98	100	
PBA Bateman <sup>(b)</sup>	102	106	98	98	103	
PBA Gunyidi <sup>(b)</sup>	100	103	95	95	104	
PBA Leeman <sup>(b)</sup>	92	95	94	83	97	
Sowing date	1 May	1 May	24 Apr	6 May	8 May	
Rainfall J-M (mm)	13	75	98	100	13	
Rainfall A–O (mm)	163	155	287	331	185	

Special thanks to 2023 trial cooperator. Learn more via the <u>NVT Long Term Yield Reporter</u>

#### **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	Anthracnose resistance	Cucumber mosaic virus (CMV)	Phomopsis pod infection	Phomopsis stem infection	Sclerotinia stem rot	
Coromup <sup>(b)</sup>	MR	MR	MS	MR	S (P)	
Coyote <sup>(h)</sup>	MRMS	MRMS	MRMS	S	S (P)	
Gidgee <sup>(b)</sup>	RMR	MRMS	S (P)	MR	S (P)	
Jenabillup <sup>(b)</sup>	MS	MRMS	MR	MS	S (P)	
Lawler®	MR	MRMS	MS	MR	S (P)	
Mandelup <sup>(b)</sup>	MRMS	MRMS	S	MR	S (P)	
PBA Barlock <sup>(b)</sup>	RMR	MRMS	MR	MR	S (P)	
PBA Bateman <sup>(h)</sup>	MRMS	MR	MS	RMR	S (P)	
PBA Gunyidi <sup>(b)</sup>	MRMS	MRMS	MRMS	RMR	S (P)	
PBA Jurien <sup>(b)</sup>	RMR	MS	MRMS	RMR	S (P)	
PBA Leeman <sup>(b)</sup>	MRMS	MRMS	MRMS	MR	S (P)	
Rosemont <sup>(b)</sup>	MRMS	MR	MRMS (P)	MR	S (P)	
Wonga	MR	MR	MR	MR	S (P)	

Learn more via the NVT Disease Ratings.

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



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