Kwinana West

May 2025

GRDC NATIONAL VARIETY TRIALS™ | CELEBRATING 20 YEARS

NVT
HARVEST REPORT

nvt.grdc.com.au

Title: NVT Harvest Report – Kwinana West

Published: May 2025

Authors:
Katherine Hollaway, Astute Ag and
Dr Sue Knights, SE Knights Consulting

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

GRDC contact details:
PO Box 5367
KINGSTON ACT 2604
Phone: 02 6166 4500
Email: comms@grdc.com.au

Design and production:
Coretext, coretext.com.au

COVER: Kalyx Australia harvesting at the GRDC National Variety Trials (NVT) site on John and Brendan Pattison's farm near Marrar, New South Wales..
PHOTO: Nicole Baxter

CONTENTS

Download this guide at:
nvt.grdc.com.au/harvest-reports

LEGEND: MEAN VARIETY YIELD PERFORMANCE

HIGH **LOW**

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

LEGEND: DISEASE RATING COLOUR RANGE

R	RMR	MR	MRMS	MS	MSS	S	SVS	VS

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

The disease ratings in the report are current at the time of publication.
Regularly visit nvt.grdc.com.au/nvt-disease-ratings to find the latest NVT disease ratings.

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

INTRODUCTION

The NVT Harvest Report – Kwinana West provides information to support growers and advisers with decisions on variety selection for **Kwinana West**. 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 2024 and long-term yield performance of varieties of crop species suitable for production in **Kwinana West** 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 – Kwinana West***, 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 **Kwinana West**.

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

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

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

NVT 20th anniversary

In 2025, the National Variety Trials (NVT) proudly celebrates 20 years of empowering Australian grain growers and their advisers with trusted, independent results to support varietal decision-making.

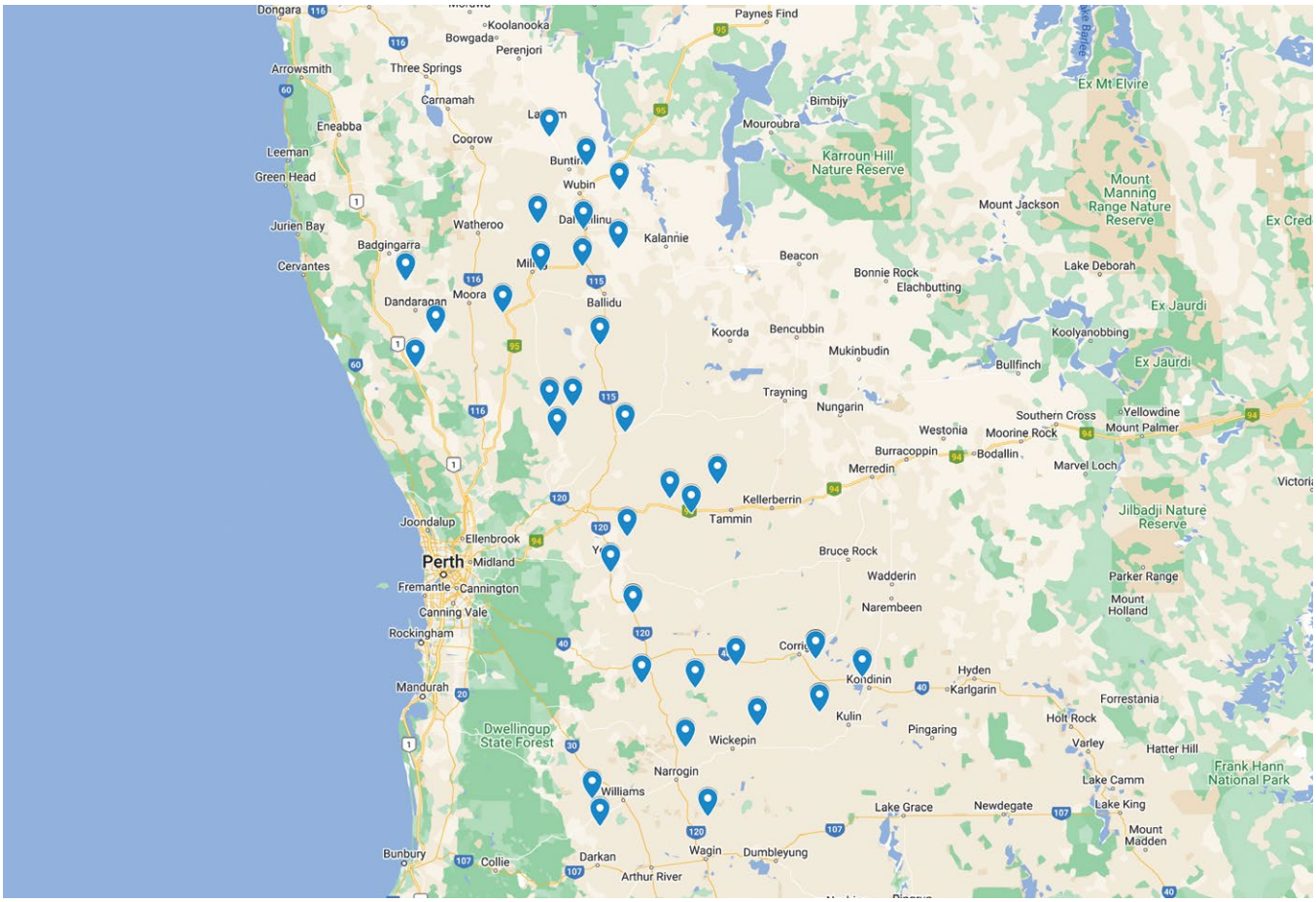
Established in 2005 by the Grains Research and Development Corporation (GRDC), the NVT program has evolved into the largest coordinated variety trial network in the world. Each year, more than 640 trials are conducted across over 300 locations nationwide, encompassing 10 different crop species. Over the past two decades, NVT has been a transformative force, providing growers with credible insights into newly released varieties that drives the rapid adoption of superior genetics.

The success of NVT is a testament to the collaborative efforts of many. GRDC extends heartfelt thanks to the growers, GRDC staff and panellists, service providers, trial hosts, breeding companies and members of the NVT Advisory Committee who have been instrumental in this journey. Your dedication has delivered exceptional outcomes, advancing the productivity and profitability of Australian grain growers and strengthening the grains industry as a whole.

As we mark this significant milestone, GRDC celebrates the achievements of NVT and looks forward to continuing to deliver game-changing innovations for Australia's grains sector in the years to come.

NVT SITE LOCATIONS – Kwinana West

Figure 1: Locality of NVT trial sites in Kwinana West from 2020 to 2024.



SOURCE: National Variety Trials

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

WHEAT

New wheat varieties

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

Variety	Breeding company	Grain classification – western zone	End point royalty* ($)	Comments supplied by breeding company[1]
Brighton$^{\Phi}$	Australian Grain Technologies Pty Ltd	TBC	4.10	Brighton$^{\Phi}$ is a dual-purpose winter wheat suitable for grazing and grain production. It is a higher-yielding alternative to Illabo$^{\Phi}$ and slightly quicker than Illabo$^{\Phi}$. It has improved test weight compared with Illabo$^{\Phi}$. **Maturity description:** quick winter
Lancelin$^{\Phi}$	Australian Grain Technologies Pty Ltd	TBC	3.70	Lancelin$^{\Phi}$ has Australian Soft (ASFT) quality classification. It has high and stable yields in WA, similar to Scepter$^{\Phi}$. It is similar to Scepter$^{\Phi}$ with an excellent physical grain quality package, high test weights and low screenings. **Maturity description:** mid spring
LRPB Vortex$^{\Phi}$	LongReach Plant Breeders Pty Ltd	APW	3.50	LRBP Vortex$^{\Phi}$ is a high-yielding variety suitable for main season sowing across all Western Australian agzones. LRPB Vortex$^{\Phi}$ has a solid grain receivals performance. APW classification in WA. Marketed by Pacific Seeds. **Maturity description:** mid spring
Mammoth$^{\Phi}$	InterGrain Pty Ltd	APW	3.50	Mammoth$^{\Phi}$'s unique phenology makes it an excellent option for an early break scenario, from late March to mid-April. Unlike winter wheats that have similar maturity, Mammoth$^{\Phi}$ does not have the same vernalisation requirement, allowing it to continue to develop using day length rather than needing low temperature to trigger flowering like winter varieties typically need. This attribute is advantageous in both high and low-rainfall regions as it allows Mammoth$^{\Phi}$ to respond to seasonal conditions and minimise frost risk. Mammoth$^{\Phi}$ is well suited to WA and SA and some areas in Victoria. **Maturity description:** very slow spring
Rottnest$^{\Phi}$	Australian Grain Technologies Pty Ltd	ANW	3.90	Rottnest$^{\Phi}$ is an udon noodle wheat in a plant type similar to Scepter$^{\Phi}$. It offers a substantial yield improvement over currently grown udon noodle varieties. It is very broadly adapted with stable yield across a range of environments. **Maturity description:** mid spring
Shotgun$^{\Phi}$	Australian Grain Technologies Pty Ltd	AH	3.90	Shotgun$^{\Phi}$ is a Scepter$^{\Phi}$ replacement with a significant yield advantage. It is agronomically very similar to Scepter$^{\Phi}$. **Maturity description:** mid spring
Splendid$^{\Phi}$	InterGrain Pty Ltd	TBC	4.00	Splendid$^{\Phi}$ is a high-yielding noodle wheat set to replace Ninja$^{\Phi}$ across WA. Splendid$^{\Phi}$ provides a significant yield jump over Ninja$^{\Phi}$ and similar physical grain characteristics to Ninja$^{\Phi}$. **Maturity description:** quick-mid spring
Triple 2$^{\Phi}$	Australian Grain and Forage Seeds Pty Ltd	TBC	4.00	Triple 2$^{\Phi}$ is an awned, high yield potential, red-grained winter feed wheat. Triple 2$^{\Phi}$ has a wide sowing window and will complement existing longer-season winter wheats in sowing programs. It suits medium and high-rainfall zones. **Maturity description:** mid winter
Wallaroo$^{\Phi}$	Trigall Australia	TBC	4.00	Variety description not supplied.

*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. Consult the Grains Australia Wheat Variety Master List for final classification in your region.

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

Wheat variety yield performance – Kwinana West

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: Beverley main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class		4.63	5.75	3.47	3.23
LRPB Vortex(Ф)	APW			111	112	108
Tomahawk CL Plus(Ф)	APW			107	114	108
Shotgun(Ф)						102
Vixen(Ф)	AH (N)		110	104	111	112
Calibre(Ф)	AH		109	108	110	104
Thumper(Ф)	AH				108	99
Brumby(Ф)	APW (N)	Compromised trial	108	109	110	102
Rottnest(Ф)						100
Sting(Ф)	AH		108	104	109	109
Devil(Ф)	AH (N)		108	107	109	103
Scepter(Ф)	AH		107	104	109	105
RockStar(Ф)	AH (N)		106	109	107	99
LRPB Avenger(Ф)	APW (N)			98	106	116
LRPB Matador(Ф)	FEED			107	107	98
Firefly(Ф)	ANW		105		105	96
Sowing date		**11 May**	**22 May**	**12 May**	**10 May**	**20 May**
Rainfall J–M (mm)		**50**	**91**	**11**	**85**	**51**
Rainfall A–O (mm)		**213**	**434**	**387**	**254**	**258**

Special thanks to 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 2: Bolgart main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class		6.51	6.26	3.23	4.83
LRPB Vortex(Ф)	APW			112	108	108
Tomahawk CL Plus(Ф)	APW			106	111	111
Shotgun(Ф)						109
Thumper(Ф)	AH				108	106
Calibre(Ф)	AH		108	108	112	109
Brumby(Ф)	APW (N)	Compromised trial	109	109	107	107
Rottnest(Ф)						107
Vixen(Ф)	AH (N)		110	102	113	110
Devil(Ф)	AH (N)		108	107	107	107
Sting(Ф)	AH		107	103	112	108
RockStar(Ф)	AH (N)		108	110	102	104
Scepter(Ф)	AH		108	104	107	107
LRPB Matador(Ф)	FEED			107	107	106
Firefly(Ф)	ANW		104		103	103
Splendid						104
Sowing date		**25 May**	**24 May**	**3 May**	**22 May**	**1 Jun**
Rainfall J–M (mm)		**49**	**122**	**57**	**51**	**65**
Rainfall A–O (mm)		**185**	**353**	**399**	**210**	**266**

Special thanks to 2024 trial cooperator, John Young.
Learn more via the NVT Long Term Yield Reporter

Table 3: Buntine main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	1.54		4.04	0.64	4.65
Rottnest(Ф)						116
RockStar(Ф)	AH (N)	105		112	85	115
Splendid(Ф)						116
LRPB Vortex(Ф)	APW			115	105	108
Tomahawk CL Plus(Ф)	APW			109	121	108
Brumby(Ф)	APW (N)			110	105	110
Shotgun(Ф)						107
Devil(Ф)	AH (N)	109		109	108	108
Ninja(Ф)	ANW	106		107	91	113
Thumper(Ф)	AH		Compromised trial		108	106
Zen(Ф)	ANW	105		104	74	116
LRPB Matador(Ф)	FEED			106	110	108
Scepter(Ф)	AH	110		106	111	106
Firefly(Ф)	ANW				98	107
Calibre(Ф)	AH	110		106	128	100
Sowing date		**27 May**	**10 May**	**20 May**	**31 May**	**7 May**
Rainfall J–M (mm)		**113**	**115**	**59**	**36**	**55**
Rainfall A–O (mm)		**149**	**331**	**258**	**115**	**231**

Special thanks to 2024 trial cooperator, Liebe Group.
Learn more via the NVT Long Term Yield Reporter

Table 4: Corrigin main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	1.49	4.51	5.52	4.08	4.36
LRPB Vortex(Ф)	APW			110	112	111
Tomahawk CL Plus(Ф)	APW			106	112	108
Shotgun(Ф)						110
Thumper(Ф)	AH				108	111
Rottnest(Ф)						113
Brumby(Ф)	APW (N)		110	106	109	110
Calibre(Ф)	AH	114	110	106	109	106
Vixen(Ф)	AH (N)	126	112	104	110	100
Devil(Ф)	AH (N)	107	109	106	108	108
RockStar(Ф)	AH (N)	96	107	107	107	112
Sting(Ф)	AH	120	110	103	108	101
Scepter(Ф)	AH	110	109	103	108	105
LRPB Matador(Ф)	FEED			104	107	108
Firefly(Ф)	ANW		105		105	109
Splendid(Ф)						110
Sowing date		**25 May**	**18 May**	**12 May**	**11 May**	**11 May**
Rainfall J–M (mm)		**66**	**64**	**44**	**58**	**121**
Rainfall A–O (mm)		**167**	**397**	**377**	**272**	**104**

Special thanks to 2024 trial cooperator, Neville Turner.
Learn more via the NVT Long Term Yield Reporter

Table 5: Cunderdin main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	3.44	3.93	4.11	2.75	3.30
Tomahawk CL Plus(b)	APW			104	113	117
LRPB Vortex(b)	APW			110	112	111
Shotgun(b)						112
Calibre(b)	AH	108	109	107	112	112
Rottnest(b)						111
Vixen(b)	AH (N)	111	112	100	107	115
Thumper(b)	AH				114	107
Brumby(b)	APW (N)		107	108	112	110
Devil(b)	AH (N)	106	107	107	111	110
Sting(b)	AH	109	109	101	107	112
LRPB Matador(b)	FEED			108	111	108
Scepter(b)	AH	107	107	102	108	111
RockStar(b)	AH (N)	103	104	110	111	105
Splendid(b)						107
Firefly¿	ANW		102		110	103
Sowing date		**28 May**	**26 May**	**12 May**	**5 May**	**8 May**
Rainfall J–M (mm)		**98**	**87**	**74**	**52**	**53**
Rainfall A–O (mm)		**136**	**309**	**310**	**194**	**238**

Special thanks to 2024 trial cooperator, Geoff Christison.
Learn more via the NVT Long Term Yield Reporter

Table 6: Dalwallinu main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class		4.36	4.78	0.98	3.76
LRPB Vortex(b)	APW	No trial		113	100	112
Tomahawk CL Plus(b)	APW			105	111	112
Rottnest(b)						104
Brumby(b)	APW (N)		108	111	104	106
Shotgun(b)						106
RockStar(b)	AH (N)		107	116	96	102
Devil(b)	AH (N)		108	109	106	106
Thumper(b)	AH				105	103
Vixen(b)	AH (N)		112	95	115	115
Scepter(b)	AH		110	104	106	108
Calibre(b)	AH		105	105	114	107
Splendid(b)						100
Sting(b)	AH		108	97	114	111
LRPB Havoc(b)	AH (N)		114	92	103	111
LRPB Matador(b)	FEED			109	109	102
Sowing date			**18 May**	**18 May**	**31 May**	**4 Jun**
Rainfall J–M (mm)			**134**	**121**	**44**	**77**
Rainfall A–O (mm)			**331**	**306**	**148**	**256**

Special thanks to 2024 trial cooperator, Gowrie Farms.
Learn more via the NVT Long Term Yield Reporter

Table 7: Dandaragan main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	4.97	5.34	3.62	3.73	3.44
LRPB Vortex(b)	APW			114	113	110
Rottnest(b)						109
RockStar(b)	AH (N)	108	111	114	108	110
Tomahawk CL Plus(b)	APW			110	116	106
Shotgun(b)						105
Brumby(b)	APW (N)		109	111	112	107
Thumper(b)	AH				112	104
Devil(b)	AH (N)	107	107	110	111	106
Splendid(b)						108
Firefly(b)	ANW		106		107	104
Scepter(b)	AH	105	106	107	110	105
Ninja(b)	ANW	105	106	109	106	106
LRPB Matador(b)	FEED			109	110	103
Calibre(b)	AH	107	103	107	113	101
Kinsei(b)	ANW	104	107	109	102	105
Sowing date		**25 May**	**17 May**	**20 May**	**23 May**	**1 Jun**
Rainfall J–M (mm)		**77**	**84**	**40**	**25**	**0**
Rainfall A–O (mm)		**220**	**455**	**576**	**257**	**419**

Special thanks to 2024 trial cooperator, Carl Moltoni.
Learn more via the NVT Long Term Yield Reporter

Table 8: Goomalling main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	1.32	4.79	7.00	2.98	4.79
Tomahawk CL Plus(b)	APW			108	112	110
LRPB Vortex(b)	APW			110	107	109
Vixen(b)	AH (N)	113	110	107	114	110
Shotgun(b)						107
Calibre(b)	AH	116	111	107	109	107
Rottnest(b)						107
Brumby(b)	APW (N)		113	107	106	106
Sting(b)	AH	113	108	106	111	108
Thumper(b)	AH				103	105
Devil(b)	AH (N)	110	112	106	106	106
Scepter(b)	AH	109	110	105	108	107
LRPB Matador(b)	FEED			105	104	104
RockStar(b)	AH (N)	102	112	105	100	104
LRPB Avenger(b)	APW (N)	101		104	112	107
Lancelin(b)				103	107	105
Sowing date		**25 May**	**31 May**	**24 May**	**31 May**	**29 May**
Rainfall J–M (mm)		**84**	**93**	**119**	**74**	**51**
Rainfall A–O (mm)		**153**	**330**	**314**	**184**	**202**

Special thanks to 2024 trial cooperator, Andrew French.
Learn more via the NVT Long Term Yield Reporter

Table 9: Kondinin main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	1.55	4.66	5.33	3.07	3.41
Shotgun[Ф]						112
Tomahawk CL Plus[Ф]	APW			111	112	109
Calibre[Ф]	AH	115	110	111	111	109
Rottnest[Ф]						114
LRPB Vortex[Ф]	APW			111	112	107
Thumper[Ф]	AH				111	111
Brumby[Ф]	APW (N)		108	110	111	110
Devil[Ф]	AH (N)	108	108	109	110	109
Vixen[Ф]	AH (N)	118	113	107	108	101
LRPB Matador[Ф]	FEED			109	109	111
Sting[Ф]	AH	115	110	107	107	102
Scepter[Ф]	AH	108	108	106	108	106
RockStar[Ф]	AH (N)	99	105	108	109	110
Firefly[Ф]	ANW		103		108	110
Splendid[Ф]						111
Sowing date		**25 May**	**25 May**	**16 May**	**9 May**	**9 May**
Rainfall J–M (mm)		**71**	**72**	**26**	**48**	**86**
Rainfall A–O (mm)		**169**	**345**	**350**	**203**	**210**

Special thanks to 2024 trial cooperator, Jarrad West.
Learn more via the NVT Long Term Yield Reporter

Table 10: Kulin main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	2.90	4.71	5.03	3.16	
Vixen[Ф]	AH (N)	118	115	109	116	
LRPB Avenger[Ф]	APW (N)	114		107	111	
Tomahawk CL Plus[Ф]	APW			110	116	
LRPB Vortex[Ф]	APW			112	110	
Sting[Ф]	AH	115	110	107	113	
LRPB Anvil[Ф] CL Plus	AH	113	113	103	110	
Calibre[Ф]	AH	113	106	108	112	
LRPB Havoc[Ф]	AH (N)	110	111	104	110	No trial
Scepter[Ф]	AH	110	107	106	110	
Razor CL Plus[Ф]	ASW	110	109	103	108	
Devil[Ф]	AH (N)	108	105	107	109	
Brumby[Ф]	APW (N)		105	107	109	
Lancelin[Ф]				104	109	
Thumper[Ф]	AH				107	
Ballista[Ф]	FEED		103	105	106	
Sowing date		**14 May**	**21 May**	**26 May**	**31 May**	
Rainfall J–M (mm)		**50**	**59**	**33**	**27**	
Rainfall A–O (mm)		**175**	**388**	**319**	**253**	

No 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 11: Miling main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	2.45	4.76	5.78	1.89	
LRPB Vortex[Ф]	APW			114	106	
Tomahawk CL Plus[Ф]	APW			105	112	
Vixen[Ф]	AH (N)	117	107	100	118	
Brumby[Ф]	APW (N)		107	109	105	
Thumper[Ф]	AH				105	
RockStar[Ф]	AH (N)	99	108	112	97	
LRPB Avenger[Ф]	APW (N)	119		96	117	
Devil[Ф]	AH (N)	105	106	107	106	Trial failed
Calibre[Ф]	AH	106	103	106	113	
Scepter[Ф]	AH	109	107	103	107	
Sting[Ф]	AH	112	104	101	115	
Ballista[Ф]	FEED		100	108	109	
LRPB Havoc[Ф]	AH (N)	116	109	94	107	
Denison[Ф]	APW	90	104	114	90	
Kinsei[Ф]	ANW	92	103	112	93	
Sowing date		**28 May**	**21 May**	**17 May**	**24 May**	**1 Jun**
Rainfall J–M (mm)		**120**	**126**	**114**	**23**	**53**
Rainfall A–O (mm)		**152**	**403**	**401**	**186**	**232**

Special thanks to 2024 trial cooperator, Sam Reynolds.
Learn more via the NVT Long Term Yield Reporter

Table 12: Narrogin main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	2.30	4.31	5.33	3.25	
LRPB Vortex[Ф]	APW			132	107	
Tomahawk CL Plus[Ф]	APW			113	111	
Shotgun[Ф]					106	
Brumby[Ф]	APW (N)		108	116	105	
RockStar[Ф]	AH (N)	110	104	124	99	
Thumper[Ф]	AH				103	
Devil[Ф]	AH (N)	112	108	113	105	
Vixen[Ф]	AH (N)	111	114	103	114	No trial
Calibre[Ф]	AH	111	112	105	109	
Scepter[Ф]	AH	112	108	109	107	
Sting[Ф]	AH	108	112	101	111	
LRPB Avenger[Ф]	APW (N)	102		100	114	
Firefly[Ф]	ANW		104		99	
Ballista[Ф]	FEED		108	106	105	
LRPB Matador[Ф]	FEED			105	103	
Sowing date		**25 May**	**21 May**	**28 May**	**20 May**	
Rainfall J–M (mm)		**68**	**63**	**19**	**55**	
Rainfall A–O (mm)		**250**	**477**	**350**	**289**	

No 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 13: Tarwonga main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class					6.23
Shotgun(Ф)		No trial	No trial	No trial	No trial	113
Thumper(Ф)	AH					113
Rottnest(Ф)						112
LRPB Vortex(Ф)	APW					112
Tomahawk CL Plus(Ф)	APW					110
Calibre(Ф)	AH					110
Brumby(Ф)	APW (N)					110
Firefly(Ф)	ANW					110
RockStar(Ф)	AH (N)					110
LRPB Matador(Ф)	FEED					110
Devil(Ф)	AH (N)					109
Splendid(Ф)						109
Ninja(Ф)	ANW					107
Kinsei(Ф)	ANW					107
Scepter(Ф)	AH					106
Sowing date						**14 May**
Rainfall J–M (mm)						**39**
Rainfall A–O (mm)						**345**

Special thanks to 2024 trial cooperator, James Evans.
Learn more via the NVT Long Term Yield Reporter

Table 14: Yealering main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	3.78	3.22	5.09	2.91	4.33
LRPB Vortex(Ф)	APW			113	113	110
Tomahawk CL Plus(Ф)	APW			109	115	108
Rottnest(Ф)						114
Shotgun(Ф)						111
Thumper(Ф)	AH				108	112
Brumby(Ф)	APW (N)		109	108	109	110
RockStar(Ф)	AH (N)	110	107	108	105	112
Devil(Ф)	AH (N)	110	108	107	109	109
Calibre(Ф)	AH	111	108	106	111	107
Splendid(Ф)						111
Vixen(Ф)	AH (N)	105	113	107	114	100
Scepter(Ф)	AH	107	109	106	110	105
LRPB Matador(Ф)	FEED			104	106	110
Firefly(Ф)	ANW		103		103	110
Sting(Ф)	AH	105	109	105	111	101
Sowing date		**9 May**	**31 May**	**27 May**	**15 May**	**10 May**
Rainfall J–M (mm)		**67**	**62**	**25**	**38**	**76**
Rainfall A–O (mm)		**182**	**366**	**316**	**263**	**248**

Special thanks to 2024 trial cooperator, Steve Lyneham.
Learn more via the NVT Long Term Yield Reporter

Table 15: York main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	2.71	4.43	5.28	3.18	3.27
LRPB Vortex(Ф)	APW			110	109	109
Shotgun(Ф)					111	105
Thumper(Ф)	AH				109	102
Tomahawk CL Plus(Ф)	APW			101	113	109
Rottnest(Ф)						106
Calibre(Ф)	AH	112	103	104	112	104
Brumby(Ф)	APW (N)		104	105	108	105
Vixen(Ф)	AH (N)	109	105	99	113	108
Devil(Ф)	AH (N)	110	104	104	108	105
RockStar(Ф)	AH (N)	109	104	108	103	104
Sting(Ф)	AH	108	104	100	112	105
Firefly(Ф)	ANW		102		104	100
LRPB Matador(Ф)	FEED			104	108	102
Scepter(Ф)	AH	109	103	100	107	106
Kinsei(Ф)	ANW	103	103	111	99	99
Sowing date		**25 May**	**17 May**	**12 May**	**13 May**	**13 May**
Rainfall J–M (mm)		**54**	**135**	**11**	**54**	**31**
Rainfall A–O (mm)		**180**	**447**	**371**	**213**	**292**

Special thanks to 2024 trial cooperator, J.T. Young & Sons.
Learn more via the NVT Long Term Yield Reporter

Table 16: Narrogin early season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class		5.16	6.18	4.70	
Denison(Ф)	APW	Compromised trial	117	110	113	No trial
Genie(Ф)	AH				112	
RockStar(Ф)	AH (N)		114	108	111	
Kinsei(Ф)	ANW		112	108	110	
Brumby(Ф)	APW (N)				108	
Catapult(Ф)	AH		115	103	108	
Wallaroo(Ф)				111	107	
Valiant(Ф) CL Plus	AH		109	103	106	
RGT Zanzibar	FEED		104	106	105	
Cutlass(Ф)	APW (N)		108	101	104	
Mammoth(Ф)	APW				105	
Longsword(Ф)	AWW		103	100	99	
Brighton(Ф)					100	
Sheriff CL Plus(Ф)*	APW (N)		106	90	97	
Stockade(Ф)	APW			105	98	
Sowing date		**29 Apr**	**28 Apr**	**29 Apr**	**14 Apr**	
Rainfall J–M (mm)		**68**	**63**	**19**	**55**	
Rainfall A–O (mm)		**250**	**477**	**350**	**289**	
Irrigation A–O (mm)		**10**	**10**	**10**		

No 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 17: Tarwonga early season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class					6.31
Denison(Φ)	APW	No trial	No trial	No trial	No trial	108
Mowhawk(Φ)	AH					107
Catapult(Φ)	AH					105
RockStar(Φ)	AH (N)					105
Kinsei(Φ)	ANW					105
Genie(Φ)	AH					105
Brumby(Φ)	APW (N)					104
Wallaroo(Φ)						104
RGT Zanzibar	FEED					104
Cutlass(Φ)	APW (N)					103
Longsword(Φ)	AWW					103
Valiant(Φ) CL Plus	AH					103
Firefly(Φ)	ANW					103
Brighton(Φ)						102
Yitpi	AH					98
Sowing date						**23 Apr**
Rainfall J–M (mm)						**39**
Rainfall A–O (mm)						**345**

Special thanks to 2024 trial cooperator, James Evans.
Learn more via the NVT Long Term Yield Reporter

Table 18: York early season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class		4.85	5.33	3.12	3.34
RGT Zanzibar	FEED	Compromised trial	109	111	118	106
Wallaroo(Φ)				108	126	103
Denison(Φ)	APW		109	95	125	116
Cutlass(Φ)	APW (N)		109	101	115	112
Valiant(Φ) CL Plus	AH		108	96	121	112
Longsword(Φ)	AWW		106	118	90	101
Genie(Φ)	AH				130	116
Mammoth(Φ)	APW				136	91
Mowhawk(Φ)	AH			119		93
Stockade(Φ)	APW			109	114	91
Brighton(Φ)					93	93
Catapult(Φ)	AH		103	87	110	113
Kinsei(Φ)	ANW		101	87	114	109
RockStar(Φ)	AH (N)		100	82	115	110
Firefly(Φ)	ANW					114
Sowing date		**24 Apr**	**23 Apr**	**14 Apr**	**12 Apr**	**23 Apr**
Rainfall J–M (mm)		**54**	**135**	**11**	**54**	**31**
Rainfall A–O (mm)		**180**	**447**	**371**	**213**	**292**
Irrigation A–O (mm)		**10**	**10**	**10**		

Special thanks to 2024 trial cooperator, J.T. Young & Sons.
Learn more via the NVT Long Term Yield Reporter

Wheat variety quality – Kwinana West

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 2023 and 2024 NVT averaged for trials in the Kwinana West 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 14 NVT sites in Kwinana West in 2023.

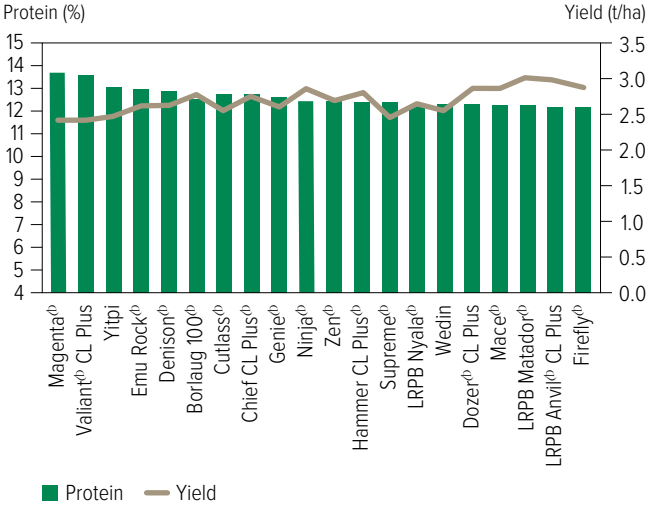


Figure 2: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from 12 NVT sites in Kwinana West in 2024.

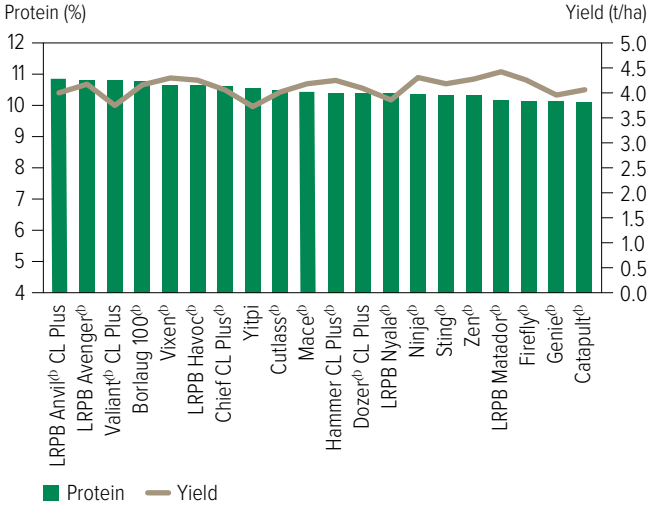


Figure 3: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from two NVT sites in Kwinana West in 2023.

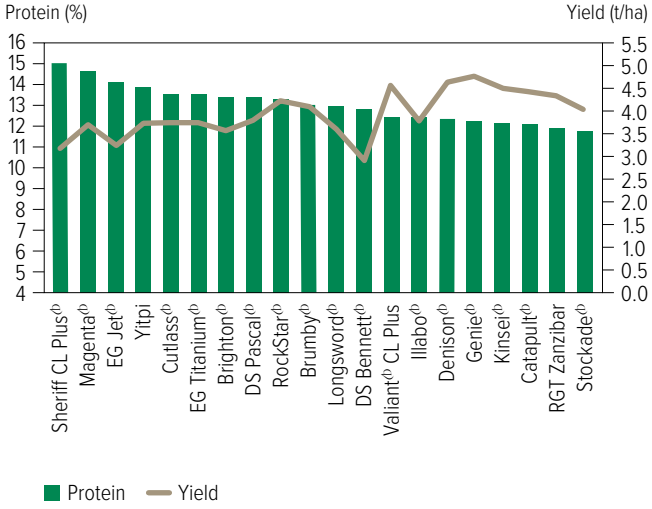
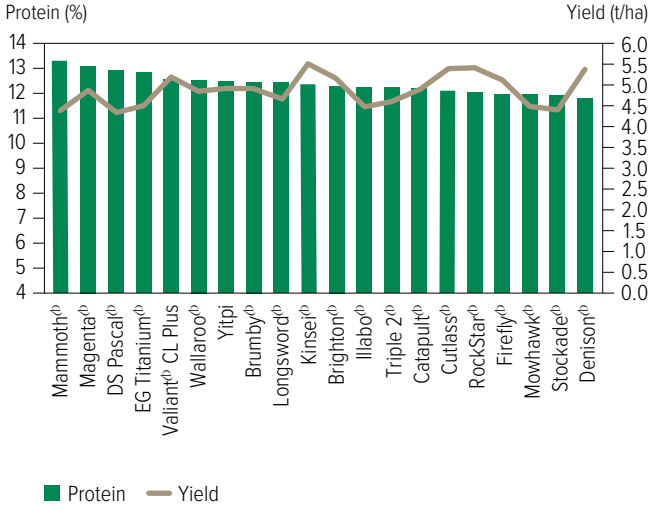


Figure 4: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from two NVT sites in Kwinana West in 2024.



Test weight comparisons

Figure 5: Test weight (kg/hL) comparisons for main season wheat varieties from 14 NVT sites in Kwinana West in 2023.

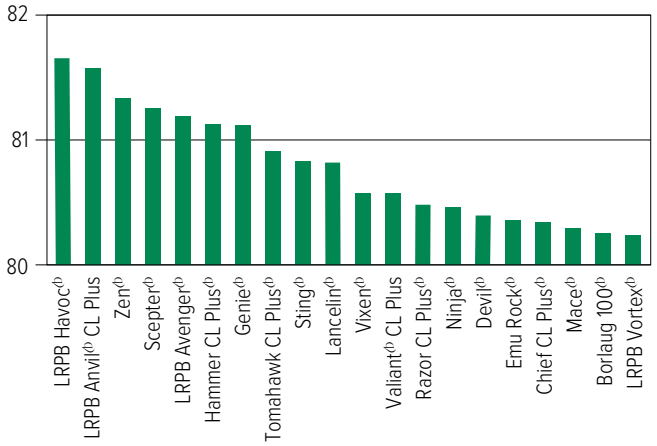


Figure 6: Test weight (kg/hL) comparisons for main season wheat varieties from 12 NVT sites in Kwinana West in 2024.

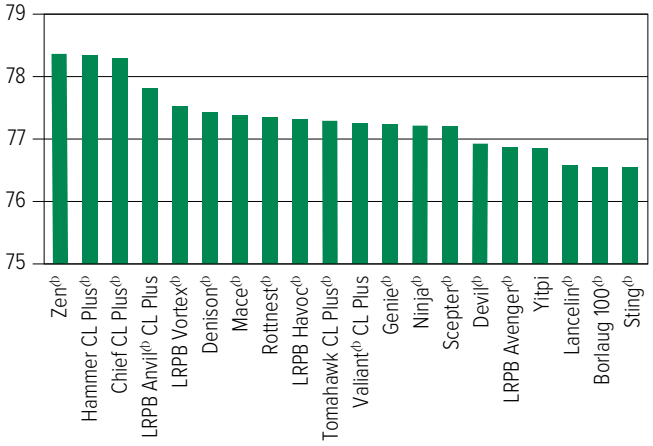


Figure 7: Test weight (kg/hL) comparisons for early season wheat varieties from two NVT sites in Kwinana West in 2023.

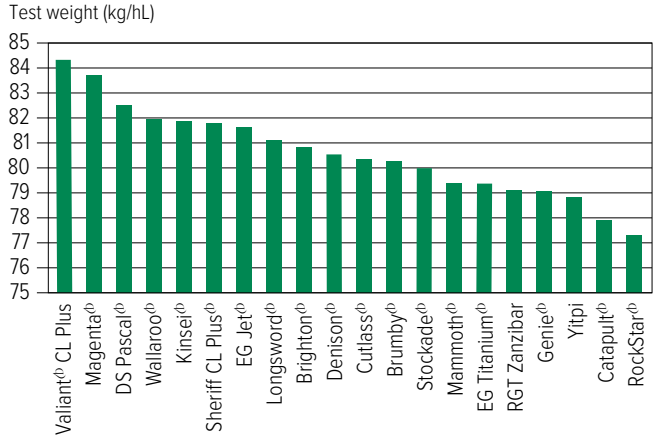
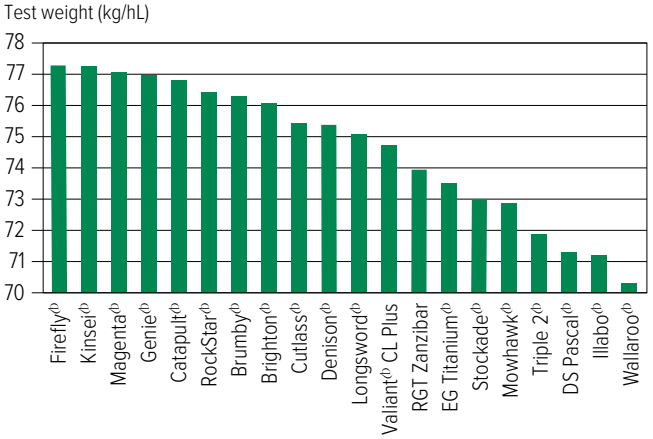


Figure 8: Test weight (kg/hL) comparisons for early season wheat varieties from two NVT sites in Kwinana West in 2024.



Screenings comparisons

Figure 9: Screenings (<2.0mm) comparisons for main season wheat varieties from 14 NVT sites in Kwinana West in 2023.

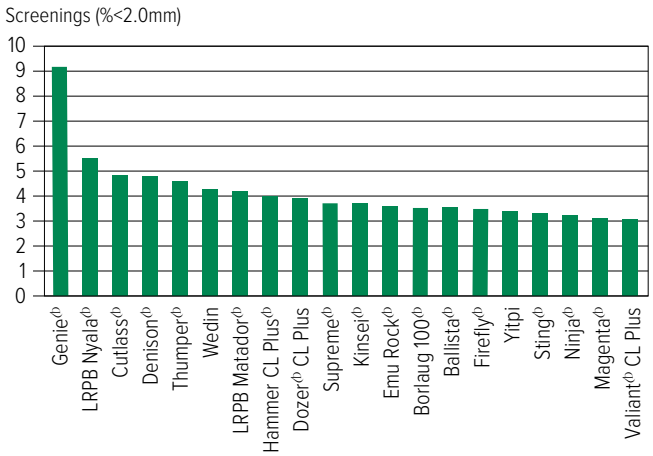


Figure 10: Screenings (<2.0mm) comparisons for main season wheat varieties from 12 NVT sites in Kwinana West in 2024.

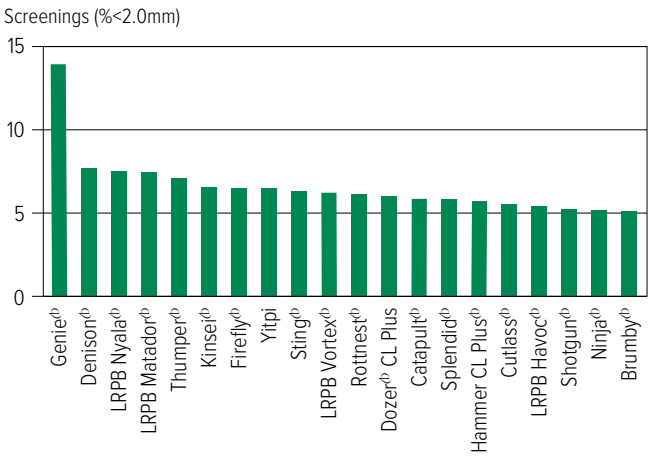


Figure 11: Screenings (<2.0mm) comparisons for early season wheat varieties from two NVT sites in Kwinana West in 2023.

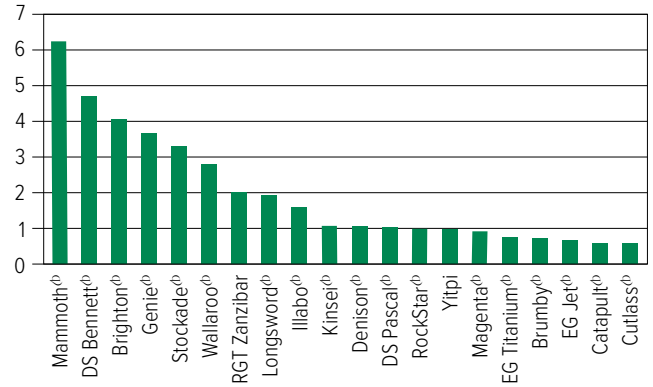
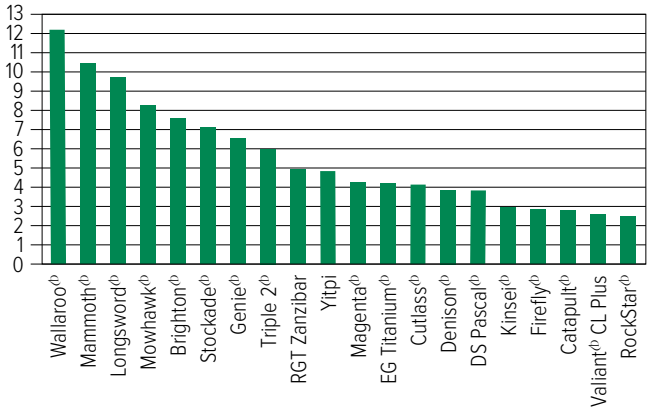


Figure 12: Screenings (<2.0mm) comparisons for early season wheat varieties from two NVT sites in Kwinana West in 2024.



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 2025.

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 19: 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 (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus quasitereoides*)	CCN	Crown rot
Ballista(b)	MS	MS	MRMS	MR		S	S	SVS	S		MRMS	S
Boree(b)	MRMS	MS	MRMS	MR		S	S	S	S		MSS	S
Borlaug 100(b)	MRMS	MRMS	MRMS	MR	RMR	MR	S	MS	S		MS	MSS
Brighton(b)	MRMS	MR	MR	MRMS	RMR	S	MSS	MRMS (P)	S		R	S
Brumby(b)	MRMS	MRMS	MS	MR	RMR	SVS	R	MSS (P)	MRMS	MS (P)	MRMS	S
Calibre(b)	MRMS	MS	MSS	MR	RMR	S	MSS	S	S	MS	MRMS	S
Catapult(b)	MRMS	MRMS	MS	MR	RMR	S	S	MSS	S	MRMS	R	MSS
Chief CL Plus(b)	MRMS	MS	MRMS	MR	S	MR	S	MSS	MRMS	MRMS	MS	MSS
Coota(b)	MSS	MRMS	MS	RMR		MR	S	MSS	MR		MR	MSS
Cutlass(b)	MSS	MRMS	MRMS	R	RMR	RMR	S	MSS	MSS	MS	MR	S
Denison(b)	MRMS	MR	MRMS	MS	MR	S	S	MS	S	MRMS (P)	MS	MSS
Devil(b)	MRMS	MRMS	MS	S	RMR	SVS	SVS	SVS	MSS	MRMS	MSS	MSS
Dozer(b) CL Plus	MRMS	MRMS	MSS	MS	MRMS	S	S	MSS (P)	MRMS	MSS (P)	MS	S
DS Bennett(b)	MRMS	MRMS	MR	MS		SVS	RMR	MR	S		S	VS
DS Pascal(b)	MS	MRMS	MRMS	MSS	RMR	MRMS	RMR	MS	S		S	S
EG Jet(b)	MRMS	MSS		S		MSS	MS	MSS	S		MRMS	S
EG Titanium(b)	MSS	MRMS	MS	MS	RMR	MS	MRMS (P)	MSS	MSS		R	MSS
EGA Wedgetail(b)	MSS	MRMS	MRMS	MRMS		MSS	MRMS	MRMS	S		S	S
Firefly(b)	MRMS	MRMS	MSS	S	MS	MSS	MSS	MSS (P)	MS	MSS (P)	MSS (P)	S
Genie(b)	MRMS (P)	MR (P)	S (P)	MRMS	RMR	S	S (P)		MS (P)	R (P)	MSS (P)	MS (P)
Hammer CL Plus(b)	MRMS	MRMS	MRMS	MR	RMR	S	S	MSS	MSS	MS	MRMS	MSS
Illabo(b)	MS	MR	MR	MR	RMR	S	R	MR	MSS	RMR	MRMS	S
Jillaroo(b)	MS	MS	MS	MS		S	S	MRMS (P)	S		MS	S
Kinsei(b)	MS	MRMS	MRMS	MSS	MRMS	MS	S	MS	S	S	MSS	MSS
Lancelin(b)	MRMS	MRMS	S	MRMS	RMR	MSS	S	S (P)	SVS		MRMS	S
Longsword(b)	MRMS	MRMS	MRMS	MR	RMR	MSS	MS	MRMS	MRMS		MRMS	MSS
LRPB Anvil(b) CL Plus	MSS	MSS	MSS	MR	RMR	SVS	S	SVS	MSS	MSS (P)	MS	MSS
LRPB Avenger(b)	MS	MSS	MS	MS	MR	SVS	S	S	MSS	MS (P)	MRMS	S
LRPB Havoc(b)	MRMS	MS	MS	S	MR	S	MSS	MRMS	S	MRMS	S	MSS
LRPB Kittyhawk(b)	MRMS	MR (P)		MRMS		MR	MRMS	MR	S		S	SVS
LRPB Matador(b)	MRMS	MRMS	MSS	MS	MR	MSS	MSS	MSS (P)	S		MS (P)	S
LRPB Nighthawk(b)	MS	MRMS	MRMS	RMR		MS	MSS	MR	MSS	MRMS (P)	MS	MSS
LRPB Nyala(b)	MS	MSS	MR	SVS	RMR	S	RMR	SVS	S		MSS	MSS
LRPB Oryx(b)	MSS	S	MSS	MR		RMR#	RMR	SVS	MSS	MSS (P)	S	MSS
LRPB Trojan(b)	MSS	MS	MS	MRMS		MR	S	S	MSS	MS (P)	MS	MS

Continued on next page

Table 19: 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	*Septoria tritici* blotch	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus quasitereoides*)	CCN	Crown rot
LRPB Vortex[Ф]	MRMS	MRMS	MS	MRMS	RMR	SVS	MS	MSS (P)	S		MSS	MSS
Mace[Ф]	MRMS	MS	MS	MRMS	RMR	S	MSS	S	MS	MRMS	MRMS	S
Magenta[Ф]	MRMS	MRMS	MSS	MR	MSS	RMR	MRMS	MS	MSS	MSS	S	MSS
Mammoth[Ф]	MRMS	MRMS	MR	MR	MRMS	MRMS	S	MRMS	MSS		MSS	S
Mowhawk[Ф]	MRMS (P)			RMR (P)		MR (P)						
Ninja[Ф]	MRMS	MRMS	MS	S	MS	S	S	MSS	S	S	MS	S
Razor CL Plus[Ф]	MSS	MS	MS	MRMS		S	MSS	SVS	S		MR	S
RGT Accroc[Ф]	MRMS			MRMS	RMR	S	RMR (P)	MRMS	MS		S	SVS
RGT Zanzibar	MS	MR		VS	RMR	SVS	R	MR	S		MSS	S
RockStar[Ф]	MRMS	MRMS	MRMS	MRMS	RMR	S	MSS	S	MRMS	MS	MSS	S
Rottnest[Ф]	MRMS (P)			S (P)	MRMS	VS (P)	SVS (P)					
Scepter[Ф]	MRMS	MRMS	MSS	MRMS	RMR	MSS	S	S	S	MS	MRMS	MSS
Severn[Ф]	MRMS	MR	MR	MRMS	RMR	MR	R	MS (P)	S		MSS (P)	S
Sheriff CL Plus[Ф]	MRMS	MRMS	MRMS	MS		SVS	SVS	S	MRMS	MRMS	MS	S
Shotgun[Ф]	MRMS	MRMS (P)	MSS (P)	MRMS	RMR	MSS	MSS (P)		MS (P)		R (P)	MS (P)
Splendid[Ф]	MRMS (P)			MR (P)	RMR (P)	MSS (P)	SVS (P)					
Sting[Ф]	MRMS	MS	MS	MRMS	MR	SVS	MSS	S	MS	MSS	MS	MSS
Stockade[Ф]	MRMS	MR	MR	MS	RMR	MR	S	MS	S		MRMS	S
Thumper[Ф]	MRMS	MRMS (P)	S (P)	MS	RMR	MSS	S (P)		S	MSS (P)	MS (P)	MS (P)
Tomahawk CL Plus[Ф]	MRMS	MRMS	S	MR	RMR	S	S	MSS (P)	S	MS (P)	MRMS	MSS
Triple 2[Ф]	MR (P)	RMR (P)	MR (P)	MR (P)	R (P)	MRMS	RMR (P)		R (P)		MS (P)	MRMS (P)
Valiant[Ф] CL Plus	MRMS	MR	MRMS	MRMS	RMR	S	SVS	MRMS	S	MSS	MSS (P)	MSS
Vixen[Ф]	MRMS	MS	MSS	MRMS	MR	SVS	SVS	MSS	MRMS	MSS	MSS	S
Wallaroo[Ф]	MRMS	MR	MR	RMR	RMR	RMR	MSS	MRMS (P)	MS		R	MSS
Willaura[Ф]	MS	MRMS	MRMS	MR	R	MRMS	SVS	MRMS	MSS		MS	S
Yitpi	SVS	MS	MRMS	S	MRMS	MSS	MS	MS	MSS	MS	MR	S
Zen[Ф]	MRMS	MS	MRMS	S (MRMS)	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,
T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant,
(P) = provisional rating, - hyphen indicates a range, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes,
^ line contains a few susceptible off types, ( ) show outlier.

Wheat variety maturity

The wheat-breeding members of Australian Crop Breeders have developed a consistent approach to the description of wheat variety maturity (relative heading date).

Table 20: An industry guide for wheat variety maturity description.

Maturity description	Abbreviation	Quick wheat boundary	Slow wheat boundary
SPRING WHEAT			
Very quick	VQ		Axe[Φ]
Very quick-quick	VQ-Q	> Axe[Φ]	Vixen[Φ]
Quick	Q	> Vixen[Φ]	Corack[Φ]/LRPB Mustang[Φ]
Quick-mid	Q-M	> Corack[Φ]/LRPB Mustang[Φ]	Mace[Φ]/Suntop[Φ]
Mid	M	> Mace[Φ]/Suntop[Φ]	LRPB Reliant[Φ]/Sheriff CL Plus[Φ]/LRPB Trojan[Φ]
Mid-slow	M-S	> LRPB Reliant[Φ]/Sheriff CL Plus[Φ]/LRPB Trojan[Φ]	Yitpi/EGA Gregory[Φ]
Slow	S	> Yitpi/EGA Gregory[Φ]	Sunzell
Slow-very slow	S-VS	> Sunzell	Sunmax[Φ]
Very slow	VS	> Sunmax[Φ]	
WINTER WHEAT			
Quick	Q		Illabo[Φ]
Mid	M	> Illabo[Φ]	RGT Accroc[Φ]
Slow	S	> RGT Accroc[Φ]	

Source: Australian Crop Breeders Ltd

Wheat optimum time of sowing – an example for Kwinana West

To achieve flowering in the ideal window and maximise yield, the optimum time of sowing is based on a combination of variety maturity and environment.

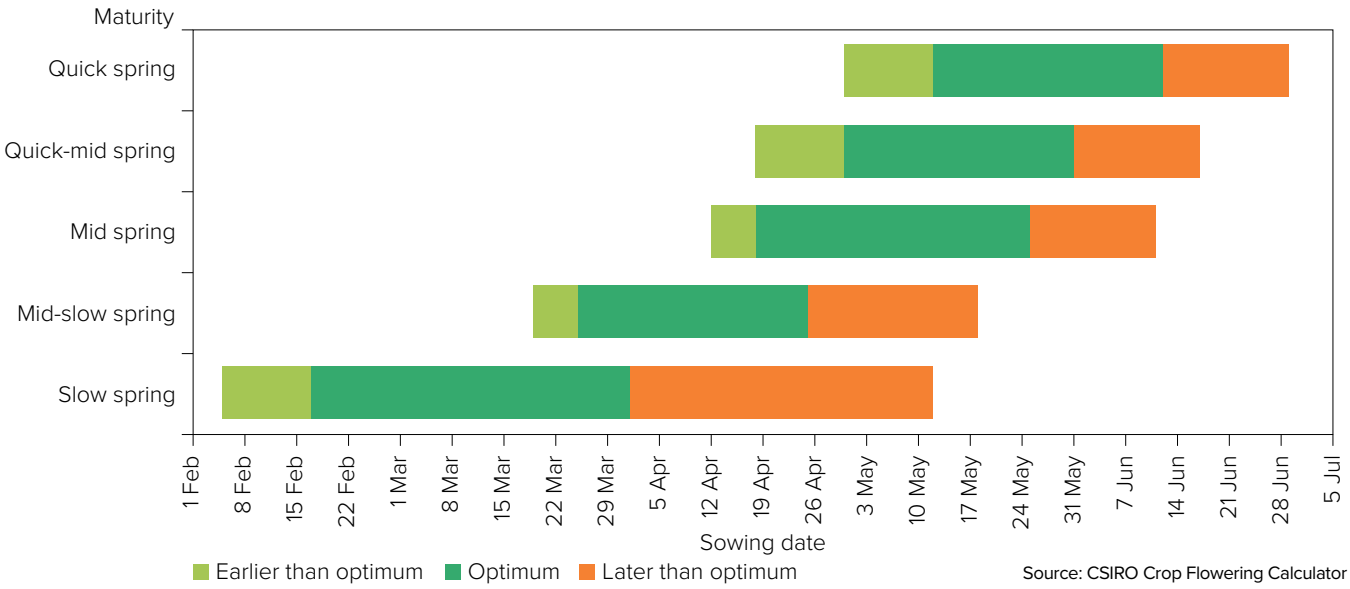
Growers and advisers are encouraged to use the Crop Flowering Calculator to compare the impact of specific variety selection and sowing date for the ideal flowering window at their own location. The Crop Flowering Calculator is a simple phenology (maturity) model that uses 60 years of local weather data to calculate a range of possible flowering dates for a specific environment for wheat, barley and canola.

The Crop Flowering Calculator helps optimise sowing programs by finding the variety or sowing time that best matches the optimal flowering window for a specific location. Select a location and crop type and then either 'Find a Variety' (to match a fixed sowing date), or find 'When to Sow' (to match a fixed variety).

This time of sowing guide (Figure 13) is automatically generated from the database that underpins the Crop Flowering Calculator. The guide presents the optimal sowing windows for generic varieties for a single location.

The Crop Flowering Calculator integrates the scientific outputs from several GRDC projects and Initiatives (CSP00187, CSP1901-002RTX, UOM1806-001RTX and CSP2206-012RTX) and brings together the diverse aspects of crop phenology (genetics, physiology and agronomy). This tool has been supported by CSIRO in partnership with GRDC through CSP2206-012RTX.

Figure 13: Optimum time of sowing by variety maturity for Northam as an example for Kwinana West.



Source: CSIRO Crop Flowering Calculator

Disclaimer: This Crop Flowering Calculator is a work in progress and is still undergoing development. The results provided have not yet been fully validated and should be interpreted with caution and used at your own discretion.

BARLEY

New barley varieties

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

Variety	Breeding company	Grain classification	End point royalty* ($)	Comments supplied by breeding company[1]
Bigfoot CL(Φ)	Australian Grain Technologies Pty Ltd	FEED	4.35	Bigfoot CL(Φ) is very similar to popular northern variety Yeti(Φ) but tolerant to Clearfield® Intervix® herbicide. It has good grain size and test weight, having a short stature and lower risk of lodging. It is feed quality only. Bigfoot CL(Φ) has a quick-mid spring maturity.
Granite(Φ) CL	InterGrain Pty Ltd	FEED	3.90	Granite(Φ) CL is a new Clearfield® feed barley for low to medium rainfall barley producing areas across Australia. Granite(Φ) CL provides a significant yield improvement over Rosalind(Φ) with the added benefit of herbicide tolerance. Granite(Φ) CL has a quick-mid spring maturity.
PegasusAX(Φ)	Australian Grain Technologies Pty Ltd	FEED	4.15	PegasusAX(Φ) carries CoAXium herbicide tolerance (Aggressor® AX herbicide) and is a derivative of Rosalind(Φ), with a similar plant type. It has similar grain size as some other high-yielding feed varieties and is feed quality only. PegasusAX(Φ) has a quick-mid spring maturity.
RGT Atlantis(Φ)	RAGT	Under malt evaluation	4.25	RGT Atlantis(Φ) is a new waterlogging-tolerant barley with high yield potential in the medium to high-rainfall zones. It is bred from RGT Planet(Φ) and has a similar maturity. It is the same plant structure and height as RGT Planet(Φ). RGT Atlantis(Φ) has a quick-mid spring maturity.
Spinnaker(Φ)	Secobra Recherches	Under malt evaluation	4.00	Spinnaker(Φ) has (Fathom(Φ) x RGT Planet(Φ)) x European malt breeding line heritage. It is two to three days earlier maturing than RGT Planet(Φ) with a May planting and has slightly shorter plant height than RGT Planet(Φ).

*EPR amount is ex-GST , (Φ)denotes Plant Breeder's Rights apply. [1]All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder. Grain classification downloaded from Grains Australia on 14/3/2025.

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

Barley variety yield performance – Kwinana West

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: Beverley main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)		4.07	7.01	3.95	3.58
Neo(ↀ) CL*	Compromised trial			104	101
PegasusAX(ↀ)*				106	107
Leabrook(ↀ)		108	103	104	106
Cyclops(ↀ)		102	105	103	109
Bigfoot CL(ↀ)*				103	110
Beast(ↀ)		103	101	105	112
Combat(ↀ)		103	107	105	100
Titan AX(ↀ)*			103	102	100
Compass(ↀ)		108	99	103	107
Rosalind(ↀ)		97	103	104	108
Granite(ↀ) CL*					108
Laperouse(ↀ)		99	101	101	107
Minotaur(ↀ)		97	104	102	102
Spinnaker(ↀ)		104	104	101	95
Maximus(ↀ) CL*		91	100	102	113
Sowing date	**11 May**	**22 May**	**12 May**	**10 May**	**20 May**
Rainfall J–M (mm)	**50**	**91**	**11**	**85**	**51**
Rainfall A–O (mm)	**213**	**434**	**387**	**254**	**258**

Special thanks to 2024 trial cooperator.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 2: Bolgart main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	4.16	5.68	6.05	4.13	4.68
Neo(ↀ) CL*				106	110
Combat(ↀ)		110	108	110	109
PegasusAX(ↀ)*				106	107
Cyclops(ↀ)	109	109	105	103	103
Rosalind(ↀ)	104	106	105	104	107
Minotaur(ↀ)	107	106	105	103	104
Leabrook(ↀ)	106	105	103	105	102
Granite(ↀ) CL*					102
Spinnaker(ↀ)		105	107	101	103
Titan AX(ↀ)*			103	105	101
Beast(ↀ)	105	103	100	106	104
RGT Planet(ↀ)	100	105	107	99	101
Bigfoot CL(ↀ)*				103	102
Zena(ↀ) CL*		103	106	99	101
Laperouse(ↀ)	104	104	101	100	100
Sowing date	**25 May**	**24 May**	**3 May**	**22 May**	**1 Jun**
Rainfall J–M (mm)	**49**	**122**	**57**	**51**	**65**
Rainfall A–O (mm)	**185**	**353**	**399**	**210**	**266**

Special thanks to 2024 trial cooperator, John Young.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 3: Buntine main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	1.13	3.60	3.80	0.56	
Combat(ↀ)		110	106	146	No trial
Rosalind(ↀ)	115	99	111	148	
PegasusAX(ↀ)*				139	
Beast(ↀ)	122	106	103	133	
Fathom(ↀ)	121	107	98	141	
Minotaur(ↀ)	111	102	103	115	
Neo(ↀ) CL*				93	
Buff(ↀ)	110	103	100	127	
La Trobe(ↀ)	111	100	102	130	
Leabrook(ↀ)	108	106	101	104	
Compass(ↀ)	107	105	100	113	
Maximus(ↀ) CL*	116	99	102	118	
Bigfoot CL(ↀ)*				103	
Cyclops(ↀ)	111	105	100	89	
Commodus(ↀ) CL*	107	103	98	113	
Sowing date	**27 May**	**10 May**	**20 May**	**31 May**	
Rainfall J–M (mm)	**113**	**115**	**59**	**36**	
Rainfall A–O (mm)	**149**	**331**	**258**	**115**	

No 2024 trial cooperator.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 4: Corrigin main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	1.23	4.58	5.74	4.93	5.08
Neo(ↀ) CL*				113	116
Combat(ↀ)		113	110	112	112
Rosalind(ↀ)	134	107	105	108	108
PegasusAX(ↀ)*				108	108
Minotaur(ↀ)	99	108	105	106	107
Spinnaker(ↀ)		101	107	105	105
Beast(ↀ)	133	105	98	102	102
Cyclops(ↀ)	100	107	101	102	104
Maximus(ↀ) CL*	129	106	97	101	103
Granite(ↀ) CL*					104
Buff(ↀ)	96	103	103	103	103
Fathom(ↀ)	109	103	99	102	101
Leabrook(ↀ)	110	102	100	101	101
La Trobe(ↀ)	127	101	98	100	100
RGT Planet(ↀ)	73	99	106	102	103
Sowing date	**25 May**	**18 May**	**12 May**	**11 May**	**11 May**
Rainfall J–M (mm)	**66**	**64**	**44**	**58**	**121**
Rainfall A–O (mm)	**167**	**397**	**377**	**272**	**104**

Special thanks to 2024 trial cooperator, Neville Turner.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 5: Dandaragan main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	5.56	5.15	4.40	4.26	2.98
Neo(ↀ) CL*				107	109
Combat(ↀ)		119	109	111	114
Cyclops(ↀ)	107	110	107	111	102
Minotaur(ↀ)	104	117	105	103	104
PegasusAX(ↀ)*				105	110
Granite(ↀ) CL*					99
Rosalind(ↀ)	104	111	107	101	107
Spinnaker(ↀ)		111	105	98	103
Maximus(ↀ) CL*	105	109	103	101	98
Laperouse(ↀ)	104	105	103	106	99
RGT Planet(ↀ)	103	112	103	96	100
Beast(ↀ)	101	92	105	111	107
Zena(ↀ) CL*		111	102	96	100
Leabrook(ↀ)	101	92	105	111	106
Bigfoot CL(ↀ)*				109	103
Sowing date	**25 May**	**17 May**	**20 May**	**23 May**	**1 Jun**
Rainfall J–M (mm)	**77**	**84**	**40**	**25**	**0**
Rainfall A–O (mm)	**220**	**455**	**576**	**257**	**419**

Special thanks to 2024 trial cooperator, Carl Moltoni.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 6: Miling main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.95	3.72	6.81	2.27	
Maximus(ↀ) CL*	114	123	106	106	
Beast(ↀ)	115	110	102	120	
Cyclops(ↀ)	108	117	105	108	
Rosalind(ↀ)	110	113	104	107	
Neo(ↀ) CL*				92	
Spartacus CL(ↀ)*	110	115	103	103	
Combat(ↀ)		107	105	114	
Laperouse(ↀ)	106	113	104	104	
Bigfoot CL(ↀ)*				112	
PegasusAX(ↀ)*				108	
Minotaur(ↀ)	103	111	105	102	
La Trobe(ↀ)	108	105	101	107	
Leabrook(ↀ)	107	102	101	113	
Fathom(ↀ)	104	96	100	114	
Compass(ↀ)	108	95	98	116	
Sowing date	**28 May**	**21 May**	**17 May**	**24 May**	**1 Jun**
Rainfall J–M (mm)	**120**	**126**	**114**	**23**	**53**
Rainfall A–O (mm)	**152**	**403**	**401**	**186**	**232**

Compromised trial

Special thanks to 2024 trial cooperator, Sam Reynolds.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 7: Narrogin main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.77	5.06	5.75	2.87	
Neo(ↀ) CL*				94	
Combat(ↀ)		107	116	101	
Cyclops(ↀ)	106	106	107	102	
Leabrook(ↀ)	108	106	102	109	
Titan AX(ↀ)*			106	99	
Beast(ↀ)	109	103	97	117	
Rosalind(ↀ)	105	101	99	116	
Minotaur(ↀ)	101	102	108	99	No trial
Compass(ↀ)	108	103	93	114	
Spinnaker(ↀ)		103	105	98	
Laperouse(ↀ)	103	102	102	101	
RGT Planet(ↀ)	97	103	107	90	
Zena(ↀ) CL*		103	108	88	
Maximus(ↀ) CL*	104	97	96	111	
Fandaga(ↀ)			106	91	
Sowing date	**25 May**	**21 May**	**28 May**	**20 May**	
Rainfall J–M (mm)	**68**	**63**	**19**	**55**	
Rainfall A–O (mm)	**250**	**477**	**350**	**289**	

No 2024 trial cooperator.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 8: Tarwonga main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)					6.71
Neo(ↀ) CL*					112
Combat(ↀ)					110
Cyclops(ↀ)					108
Granite(ↀ) CL*					108
Minotaur(ↀ)					106
Maximus(ↀ) CL*					105
Laperouse(ↀ)					105
Rosalind(ↀ)	No trial	No trial	No trial	No trial	104
PegasusAX(ↀ)*					104
Beast(ↀ)					104
Leabrook(ↀ)					103
Bigfoot CL(ↀ)*					103
Titan AX(ↀ)*					102
Fathom(ↀ)					102
Spartacus CL(ↀ)*					101
Sowing date					**13 May**
Rainfall J–M (mm)					**39**
Rainfall A–O (mm)					**345**

Special thanks to 2024 trial cooperator, James Evans.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 9: Yealering main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	4.60	3.35	4.86	3.15	5.22
Neo(Ꝺ) CL*				99	115
Combat(Ꝺ)		115	117	105	109
PegasusAX(Ꝺ)*				112	103
Cyclops(Ꝺ)	108	109	110	106	105
Beast(Ꝺ)	105	111	108	114	100
Leabrook(Ꝺ)	104	112	106	112	102
Rosalind(Ꝺ)	105	105	111	107	101
Minotaur(Ꝺ)	108	104	109	100	105
Titan AX(Ꝺ)*			103	108	104
Granite(Ꝺ) CL*					104
Bigfoot CL(Ꝺ)*				112	100
Laperouse(Ꝺ)	103	103	104	103	102
Compass(Ꝺ)	99	109	99	114	97
Spinnaker(Ꝺ)		102	104	99	104
Maximus(Ꝺ) CL*	102	98	106	103	99
Sowing date	**9 May**	**31 May**	**27 May**	**15 May**	**9 May**
Rainfall J–M (mm)	**67**	**62**	**25**	**38**	**76**
Rainfall A–O (mm)	**182**	**366**	**316**	**263**	**248**

Special thanks to 2024 trial cooperator, Steve Lyneham.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 10: York main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.44	4.36	6.49	3.96	4.26
Neo(Ꝺ) CL*				105	105
Combat(Ꝺ)		104	114	108	105
Cyclops(Ꝺ)	107	114	100	107	106
PegasusAX(Ꝺ)*					109
Rosalind(Ꝺ)	110	102	104	99	112
Granite(Ꝺ) CL*					107
Minotaur(Ꝺ)	106	105	106	101	105
Beast(Ꝺ)	106	107	97	107	110
Leabrook(Ꝺ)	101	107	100	110	103
Bigfoot CL(Ꝺ)*					106
Maximus(Ꝺ) CL*	112	109	93	96	113
Laperouse(Ꝺ)	105	110	96	103	105
Titan AX(Ꝺ)*			103	111	97
Spinnaker(Ꝺ)		98	109	100	97
RGT Planet(Ꝺ)	98	99	108	100	93
Sowing date	**25 May**	**17 May**	**12 May**	**13 May**	**13 May**
Rainfall J–M (mm)	**54**	**135**	**11**	**54**	**31**
Rainfall A–O (mm)	**180**	**447**	**371**	**213**	**292**

Special thanks to 2024 trial cooperator, JT Young & Sons.
Learn more via the NVT Long Term Yield Reporter

Barley variety quality – Kwinana West

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 2023 and 2024 NVT averaged for trials in the Kwinana West 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 nine NVT sites in Kwinana West in 2023.

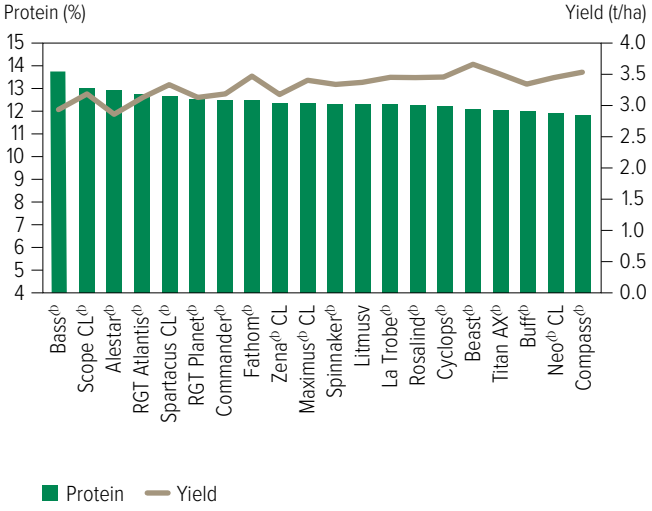
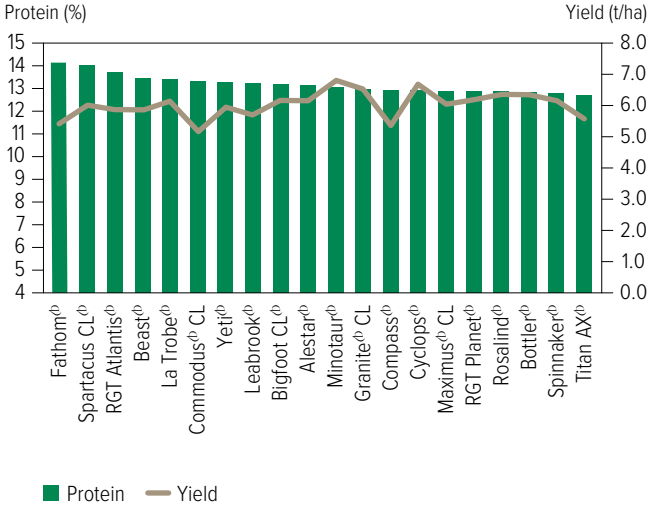


Figure 2: Protein (%) and yield (t/ha) comparisons for main season barley varieties from seven NVT sites in Kwinana West in 2024.



Test weight comparisons

Figure 3: Test weight (kg/hL) comparisons for main season barley varieties from nine NVT sites in Kwinana West in 2023.

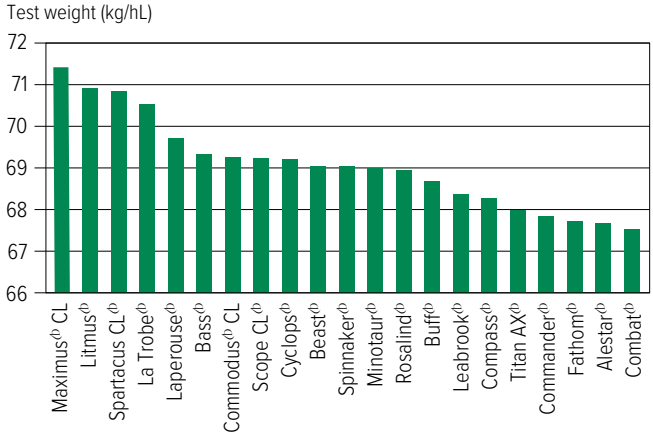
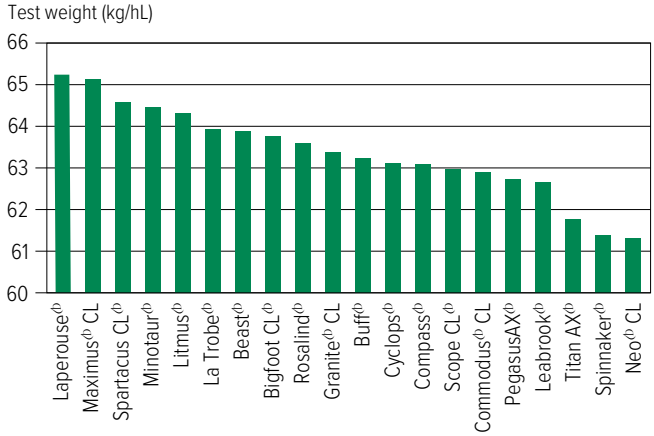


Figure 4: Test weight (kg/hL) comparisons for main season barley varieties from seven NVT sites in Kwinana West in 2024.



Screenings comparisons

Figure 5: Screenings (<2.5mm) comparisons for main season barley varieties from nine NVT sites in Kwinana West in 2023.

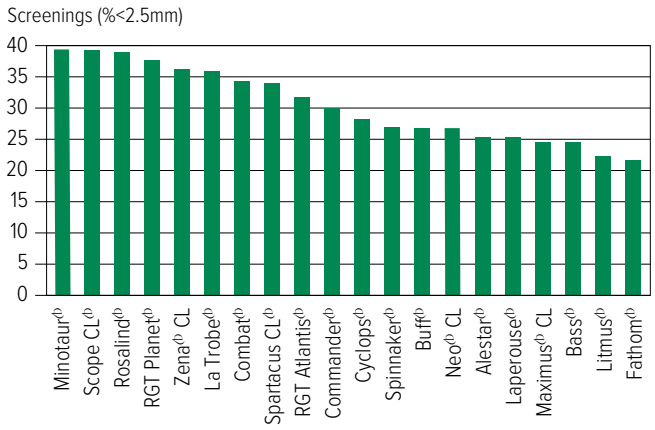
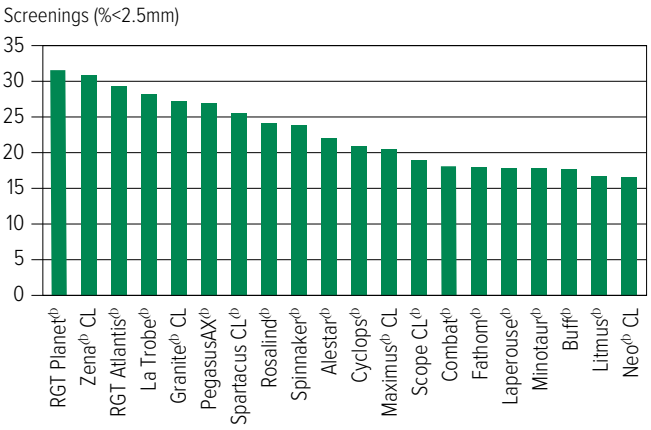


Figure 6: Screenings (<2.5mm) comparisons for main season barley varieties from seven NVT sites in Kwinana West in 2024.



Retention comparisons

Figure 7: Retention (>2.5mm) comparisons for main season barley varieties from nine NVT sites in Kwinana West in 2023.

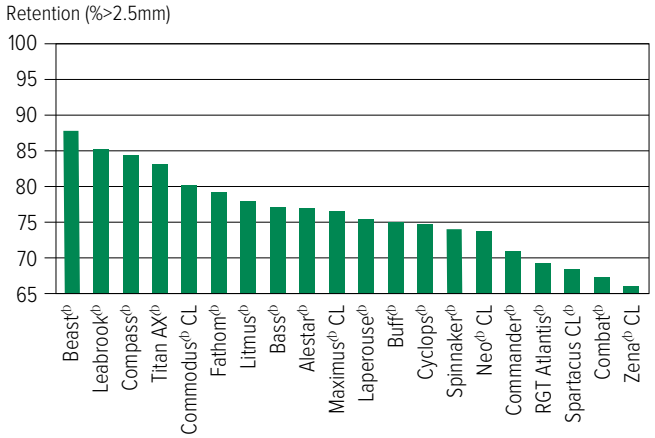
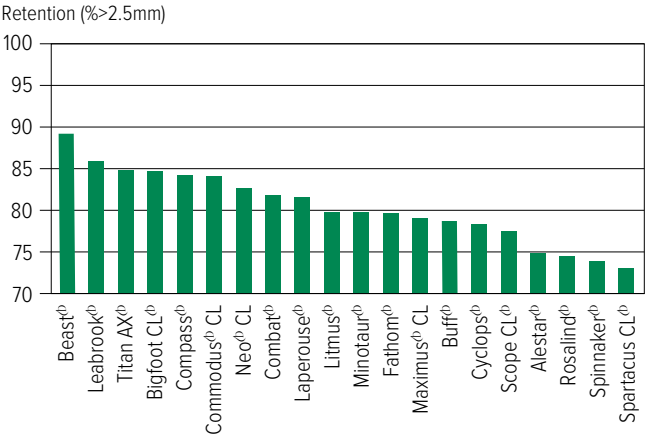


Figure 8: Retention (>2.5mm) comparisons for main season barley varieties from seven NVT sites in Kwinana West in 2024.



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 2025.

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 11: Barley disease guide for Western Australia.

Variety	Scald	Net form net blotch	Spot form net blotch	Powdery mildew	Leaf rust	Crown rot	Black point	Barley yellow dwarf virus	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus quasitereoides*)	CCN	Ramularia
Alestar(ф)	S	MRMS-S	S	RMR	MRMS	S	MRMS	MRMS	MR		R^ (P)	SVS
Beast(ф)	S	MRMS-S	S	RMR	S	S	MSS	MS	MRMS	MSS	MR	SVS
Bigfoot CL(ф)	S (P)	MRMS	MS	RMR	S	MSS (P)	S (P)	MS	MR	MSS (P)	R	SVS
Bottler(ф)	S	MRMS-MSS	MSS	RMR	MRMS	SVS	MRMS	MRMS-MS	MS			SVS
Buff(ф)	MSS	MRMS-MSS	S	MSS	SVS	S	MS	MRMS	MRMS	S		SVS
Combat(ф)	S	MRMS-S	MRMS	R	MS	MSS	MSS	MRMS	MRMS	S (P)	MR	SVS
Commander(ф)	MS	MRMS-S	MSS	RMR	S	S	MSS	MRMS	MRMS		R	SVS
Commodus(ф) CL	MSS	MRMS-S	MSS	RMR	SVS	S	MS	MRMS	MRMS	MS	R	SVS
Compass(ф)	MSS	MRMS-S	MS	R	SVS	MSS	MSS	MS	MRMS	S	R	SVS
Cyclops(ф)	MRMS	MR-MS	S	R	S	MSS	MSS	MSS	MRMS	MSS	S	SVS
Fandaga(ф)	S	R-MRMS	MS	RMR	MRMS	MS	MRMS	MS	MR	MS (P)	R	SVS
Fathom(ф)	MR	MS-S	MR	MR	MRMS	SVS	MSS	MS	MRMS	MSS	R	SVS
Flinders(ф)	MSS	MR-S	MSS	RMR	MRMS	MSS	MRMS	MRMS	MRMS	MSS (P)	S	SVS
Granite(ф) CL	MS (P)	R-MRMS (P)	MS (P)	R (P)	S (P)	SVS (P)		MR (P)				SVS (P)
Kiwi	S	MRMS-MS	MSS	RMR	MS	MSS	MS	MRMS	MRMS		S	SVS
La Trobe(ф)	MR	MRMS-S	MSS	MS	MS	S	MSS	MS	MRMS	S	R	SVS
Laperouse(ф)	S	MRMS-S	MS	RMR	S	S	MSS	MRMS	MRMS	MS	S	SVS
Leabrook(ф)	S	MRMS-S	MS	RMR	S	S	MS	MS	MRMS	MS	RMR	SVS
Litmus(ф)	S	MRMS-S	S	R	S	S	MS	MSS	MS	MSS (P)	MS	SVS
Maximus(ф) CL	MR	MRMS-S	MSS	RMR/S	S	S	MSS	MRMS	MRMS	S	R	SVS
Minotaur(ф)	VS	MRMS-MS	S	S	S	MSS	MRMS	MS	MRMS	MS	R	SVS
Neo(ф) CL	MRMS	MRMS-MSS	MRMS	R (P)	MS	VS (P)	MRMS (P)	MRMS	MR	S (P)	R	SVS
Newton	MR	MRMS	MS	R	MR	MSS (P)	MRMS (P)	MS	MRMS		MSS	S
PegasusAX(ф)	MS	MRMS	MSS	MS	MR	MSS (P)	MSS (P)	MS	MR	MSS (P)	R	SVS
RGT Atlantis(ф)	MR	MS	MSS	R	MRMS	SVS (P)	MRMS (P)	MRMS	MR	S (P)	R	SVS
RGT Planet(ф)	MR	MRMS-SVS	S	R	MRMS	MSS	MRMS	MRMS	MRMS	MS	R	SVS
Rosalind(ф)	MSS	MR-S	S	MSS	MR	S	MS	MRMS	MRMS	MSS	R	SVS
Scope CL(ф)	MS	MRMS-MSS	MSS	RMR	MS	S	MS	MRMS	MRMS	MRMS	S	SVS
Spartacus CL(ф)	MR	MRMS-S	SVS	MS	MS	S	MSS	MSS	MRMS	MSS	R	SVS
Spinnaker(ф)	MRMS	MRMS-S	S	R	MS	MSS	MRMS	MRMS	MR	MS (P)	S	SVS
Titan AX(ф)	S	MRMS-S	MS	RMR	S	MSS	MSS	MS	MR	MS (P)	MR (P)	SVS
Urambie	MR	MRMS	MS	MRMS-MSS	MSS	MSS	MRMS	MRMS	MRMS			SVS
Westminster(ф)	MRMS	MRMS-MSS	MSS	RMR	MRMS	MSS	MRMS	MRMS	MRMS			SVS
Yeti(ф)	S	MR-S	MSS	MR	S	S	MSS	MS	MR		RMR	SVS
Zena(ф) CL	MR	MRMS-S	S	R	MRMS	S	MRMS (P)	MRMS	MRMS	MS (P)	R	SVS

Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible,
T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant,
(P) = provisional rating, - hyphen indicates a range, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes,
^ line contains a few susceptible off types, ( ) show outlier.

OAT

New oat varieties

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

Variety	Breeding company	End point royalty* ($)	Comments supplied by breeding company[1]
Goldie(Φ)	InterGrain Pty Ltd	3.50	Goldie(Φ) is a new high-yielding milling oat and is suited to all oat growing regions of southern NSW, Victoria, SA and WA. Goldie(Φ) is a mid-spring maturing oat and is well suited for the second week of April to mid-May sowing window. Goldie(Φ) has a medium-tall plant height and has excellent panicle emergence. It has good test weight and low screenings. Along with excellent grain yield and quality attributes, early hay yield and quality data looks promising for export hay. Goldie(Φ) has a mid-spring maturity.
Minnie(Φ)	InterGrain Pty Ltd	3.50	Minnie(Φ) provides excellent yield potential for medium to high rainfall oat growing regions of southern NSW, Victoria, SA and WA. Its short-medium plant height allows improved lodging and harvestability in higher yielding situations. Minnie(Φ) has a mid-slow spring maturity.

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

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

Oat variety yield performance – Kwinana West

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: Corrigin oat.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	0.99	4.08	5.28	4.26	3.99
Goldie(ф)		113	109	108	110
Minnie(ф)			104	104	105
Wandering	111	109	106	106	107
Bilby(ф)	115	106	102	109	105
Bannister(ф)	89	109	107	102	105
Archer(ф)*				110	106
Koala(ф)	68	109	108	99	103
Williams(ф)	68	104	104	103	102
Kojonup(ф)	66	104	101	100	97
Wallaby(ф)				95	93
Sowing date	**25 May**	**18 May**	**12 May**	**11 May**	**24 Apr**
Rainfall J–M (mm)	**66**	**64**	**44**	**58**	**121**
Rainfall A–O (mm)	**167**	**397**	**377**	**272**	**104**

Special thanks to 2024 trial cooperator, Neville Turner.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 2: Cunderdin oat.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.01	4.00	4.42	2.81	
Goldie(ф)		112	107	117	
Minnie(ф)			110	113	
Wandering	110	109	104	112	
Bilby(ф)	105	111	103	109	
Bannister(ф)	98	105	102	107	
Koala(ф)	87	103	100	102	No trial
Williams(ф)	83	105	96	100	
Wallaby(ф)				91	
Archer(ф)*				101	
Durack(ф)	101	88	95	87	
Sowing date	**28 May**	**16 May**	**28 May**	**3 May**	
Rainfall J–M (mm)	**98**	**113**	**52**	**51**	
Rainfall A–O (mm)	**136**	**282**	**304**	**201**	

No 2024 trial cooperator.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 3: Dandaragan oat.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.93	3.33	3.14	3.13	
Archer(ф)*				117	
Goldie(ф)		106	110	109	
Bilby(ф)	111	108	108	107	
Wandering	108	104	107	106	
Minnie(ф)			111	104	Trial failed
Williams(ф)	103	103	100	107	
Bannister(ф)	101	102	103	106	
Koala(ф)	94	101	100	106	
Kojonup(ф)	92	105	99	105	
Wallaby(ф)				102	
Sowing date	**25 May**	**17 May**	**20 May**	**23 May**	**1 Jun**
Rainfall J–M (mm)	**77**	**84**	**40**	**25**	**0**
Rainfall A–O (mm)	**220**	**455**	**576**	**257**	**419**

Special thanks to 2024 trial cooperator, Carl Moltoni.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 4: Williams oat.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.74	4.17	5.50	4.03	5.15
Archer(ф)*				103	128
Koala(ф)	106	115	120	97	121
Goldie(ф)		109	111	109	118
Bannister(ф)	107	111	114	101	117
Williams(ф)	102	110	115	100	114
Wandering	108	106	108	107	113
Kojonup(ф)	96	106	109	97	104
Bilby(ф)	103	100	100	110	103
Minnie(ф)			97	108	102
Wallaby(ф)				95	97
Sowing date	**25 May**	**3 Jun**	**12 May**	**11 May**	**23 Apr**
Rainfall J–M (mm)	**40**	**85**	**10**	**72**	**39**
Rainfall A–O (mm)	**288**	**519**	**384**	**330**	**345**

Special thanks to 2024 trial cooperator, James Evans.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 5: York oat.					
Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.28	4.69	4.56	4.94	2.96
Goldieⱽ		107	116	110	112
Minnieⱽ			121	107	105
Wandering	111	105	110	107	109
Bilbyⱽ	102	110	98	108	114
Bannisterⱽ	107	100	118	101	102
Koalaⱽ	104	97	126	96	97
Wallabyⱽ				89	88
Archerⱽ*				98	115
Williamsⱽ	98	101	103	98	104
Kojonupⱽ	87	100	114	92	97
Sowing date	**28 May**	**13 May**	**25 Apr**	**24 Apr**	**23 Apr**
Rainfall J–M (mm)	**54**	**92**	**9**	**69**	**31**
Rainfall A–O (mm)	**180**	**381**	**316**	**210**	**292**

Special thanks to 2024 trial cooperator, JT Young & Sons.
* 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 2025.

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: Oat disease guide for Western Australia.							
Variety	Septoria blotch	Leaf rust (crown rust)	Stem rust	Barley yellow dwarf virus (BYDV)	Bacterial blight	RLN resistance (*Pratylenchus neglectus*)	CCN
Archerⱽ	MSS	MR	MSS	MSS	MSS	MS (P)	VS
Bannisterⱽ	MSS	RMR	MS	MSS	S	MS	MRMS
Bilbyⱽ	S	MR	SVS	S	SVS	MS (P)	VS
Brusher	MSS	MR	S	S	SVS	MS (P)	MR
Carrolup	S	VS	MSS	SVS	MSS	MR	VS
Durackⱽ	S	MSS	S	S	S	MRMS	MRMS
Echidna	SVS	SVS	S	MSS	S	MS (P)	MRMS
Goldieⱽ	MSS	RMR	MSS	MS	MSS	MS (P)	MR
Kingbaleⱽ	MS	SVS	MSS	MS	MSS	MRMS	R
Koalaⱽ	MSS	MR	MRMS	MSS	S	MRMS	R
Kojonupⱽ	S	SVS	MSS	MSS	SVS	MS (P)	VS
Kowariⱽ	S	MR	S	S	S	MS (P)	S
Kultarrⱽ	MS	MR	SVS	MSS	MSS	MS (P)	MRMS
Minnieⱽ	S	RMR	MSS	S	S	MS (P)	RMR
Mitikaⱽ	SVS	MSS	S	SVS	S	MS (P)	VS
Mulgaraⱽ	S/MS	MR	MR	MSS	MSS	MS (P)	R
Tungooⱽ	MRMS#	MR	MRMS	MSS	MSS	MS (P)	MR
Wallabyⱽ	MSS	MR	MRMS	MSS	MSS	MS	MR
Wandering	S	VS	SVS	S	S	MS (P)	VS
Williamsⱽ	MSS	MR	MSS	MSS	MSS	MRMS	VS
Wintaroo	MS#	S	MS	MS	MSS	MS (P)	R
Yallaraⱽ	MSS	RMR	S	MSS	S	MR	R

Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant, (P) = provisional rating, - hyphen indicates a range, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes, ^ line contains a few susceptible off types, ( ) show outlier.

CANOLA

New canola varieties

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

Variety	Breeding company	End point royalty* ($)	Comments supplied by breeding company[1]
DG Buller G	Nutrien Ag Solutions Ltd	N/A	DG Buller G will be available to growers in 2025. It is a 5 series, Optimum GLY® hybrid. DG Buller G is medium height with good standability. It has good oil content.
InVigor® LR 3540P	BASF Australia Ltd	N/A	InVigor® LR 3540P is an early maturing hybrid with PodGuard®. InVigor® LR 3540P contains dual herbicide tolerance to Liberty® and Truflex®. InVigor® LR 3540P combines the flexibility of PodGuard® and dual herbicide tolerance with early maturity. InVigor® LR 3540P is suited to lower-rainfall and shorter-season areas.
InVigor® LR 5040P	BASF Australia Ltd	N/A	InVigor® LR5040P is a mid-season hybrid with PodGuard®. InVigor® LR5040P contains dual herbicide tolerance to Liberty® and Truflex®. InVigor® LR5040P combines the flexibility of PodGuard® and dual herbicide tolerance with high yield and oil results. InVigor® LR5040P is suited to mid-season growing regions.
Monola® H524TT	Nuseed Pty Ltd	N/A	Monola® H524TT is an early-mid maturing Monola® 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 good harvestability. Limited commercial release in 2024.
Nuseed® Griffon TTI	Nuseed Pty Ltd	N/A	Nuseed® Griffon TTI is Nuseed's first dual-herbicide hybrid canola, with triazine and IMI tolerance for flexible, effective crop protection. It is an early-mid maturing variety ideal for target yield environments of 0.5 to 3t/ha, which ensures fast pod development to safeguard yield. Commercial release in 2025. Rapid pod development for higher yields and a shorter growing season.
Pioneer® PY323G	Pioneer	N/A	Pioneer® PY323G (coded AA1421G) is an early maturing Optimum GLY® hybrid variety. Suited to early and early-mid season growing regions, it is medium in height. First tested in NVT 2023. Marketed by Pioneer Seeds.
Pioneer® PY327C	Pioneer	N/A	Pioneer® PY327C (coded AA0424I) is an early maturing Clearfield® hybrid suited to medium to high rainfall zones. It has mid-fast phenology and a medium-tall plant height. First tested in NVT 2023. Marketed by Pioneer Seeds.
Pioneer® PY422G	Pioneer	N/A	Pioneer® PY422G (coded AA1418G) is an early-mid maturing Optimum GLY® hybrid suited to early-mid and mid-season growing regions with medium height. First tested in NVT 2023. Marketed by Pioneer Seeds.
Pioneer® PY424GC	Pioneer	N/A	Pioneer® PY424GC (coded WW1958W) is an early-mid maturing combination Optimum GLY® and Clearfield® hybrid suited to early and early-mid season growing regions. It has medium height. First tested in NVT 2023. Marketed by Pioneer Seeds.

Continued on next page

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

Variety	Breeding company	End point royalty* ($)	Comments supplied by breeding company[1]
Pioneer® PY428R	Pioneer	N/A	Pioneer® PY428R (coded D257-18) is an early-mid maturing Roundup Ready® hybrid suited to early and early-mid season growing regions and is medium in height. First tested in NVT 2023. Marketed by Pioneer Seeds.
Pioneer® PY429T	Pioneer	N/A	Pioneer® PY429T (coded AA902T) is a widely adapted early-mid maturing triazine-tolerant hybrid. Best suited to medium to medium-high rainfall zones. Medium plant height. First tested in NVT 2023. Marketed by Pioneer Seeds.
Pioneer® PY432T	Pioneer	N/A	Variety description not supplied.
Pioneer® PY525G	Pioneer	N/A	Pioneer® PY525G (coded AA1409G) is a mid-maturing Optimum GLY® hybrid variety suited to mid-season growing regions with medium-tall height. First tested in NVT 2023. Marketed by Pioneer Seeds.

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

Canola variety yield performance – Kwinana West

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: Bolgart med-high rainfall GLY.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)			3.46	2.52	
Hyola® Regiment XC	Compromised trial	Compromised trial		109	Compromised trial
Nuseed® Hunter TF			106	109	
InVigor® LR 4540P			105	107	
Pioneer® 45Y28 RR			105	105	
Nuseed® Raptor TF			103	106	
InVigor® R 4520P			105	103	
Nuseed® Eagle TF			104	104	
Pioneer® PY323G				107	
Pioneer® 44Y27 RR			101	106	
Pioneer® 44Y30 RR			102	104	
Sowing date	**6 May**	**4 May**	**26 Apr**	**6 May**	**3 May**
Rainfall J–M (mm)	**49**	**122**	**52**	**51**	**65**
Rainfall A–O (mm)	**185**	**353**	**371**	**210**	**266**

Special thanks to 2024 trial cooperator, John Young.
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 were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Regiment XC, Pioneer® PY424GC.
Learn more via the NVT Long Term Yield Reporter

Table 2: Cunderdin med-high rainfall GLY.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	0.86	2.19	2.61	1.96	3.00
InVigor® LR 4540P			107	111	115
Nuseed® Hunter TF		118	110	113	112
Pioneer® 44Y27 RR	121	114	109	111	105
Pioneer® PY323G				110	102
InVigor® R 4520P	103	111	101	104	111
Hyola® Regiment XC		103		110	102
InVigor® LR 5040P			98	101	113
Nuseed® Raptor TF	108	105	108	108	102
Pioneer® PY424GC				104	104
Pioneer® PY428R					112
Sowing date	**25 May**	**7 May**	**26 Apr**	**22 Apr**	**29 Apr**
Rainfall J–M (mm)	**98**	**83**	**59**	**52**	**53**
Rainfall A–O (mm)	**136**	**292**	**312**	**194**	**238**

Special thanks to 2024 trial cooperator, Cody Fulwood.
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 were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Regiment XC, Pioneer® PY424GC.
Learn more via the NVT Long Term Yield Reporter

Table 3: Dandaragan med-high rainfall GLY.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)		3.56		2.89	
InVigor® LR 5040P	Compromised trial		Compromised trial	107	Trial failed
InVigor® LR 4540P				106	
InVigor® R 4520P		112		108	
Nuseed® Hunter TF				107	
Pioneer® 45Y28 RR		106		108	
Pioneer® 44Y30 RR		107		104	
Hyola® Regiment XC		105		106	
Nuseed® Eagle TF		103		106	
Nuseed® Raptor TF		102		103	
Pioneer® 44Y27 RR		103		99	
Sowing date	**12 Jun**	**16 Apr**	**26 Apr**	**6 May**	**2 May**
Rainfall J–M (mm)	**77**	**84**	**40**	**25**	**0**
Rainfall A–O (mm)	**220**	**455**	**576**	**257**	**419**

Special thanks to 2024 trial cooperator, Carl Moltoni.
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 were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Regiment XC, Pioneer® PY424GC.
Learn more via the NVT Long Term Yield Reporter

Table 4: Williams med-high rainfall GLY.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.67			2.65	3.17
InVigor® LR 4540P		Trial failed	Compromised trial	107	107
InVigor® LR 5040P				105	109
Pioneer® PY428R				107	109
Nuseed® Hunter TF				107	106
InVigor® R 4520P	107			105	107
Pioneer® 44Y27 RR	104			103	101
Nuseed® Eagle TF				104	102
Pioneer® PY424GC				101	101
DG Buller G					101
Nuseed® Raptor TF	101			103	100
Sowing date	**6 May**	**29 Apr**	**12 May**	**7 May**	**24 Apr**
Rainfall J–M (mm)	**40**	**93**	**18**	**42**	**6**
Rainfall A–O (mm)	**288**	**544**	**445**	**312**	**355**

Special thanks to 2024 trial cooperator, Hal Klugg.
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 were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Regiment XC, Pioneer® PY424GC.
Learn more via the NVT Long Term Yield Reporter

Table 5: York med-high rainfall GLY.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)		2.82	3.11	2.78	2.78
Nuseed® Hunter TF	Compromised trial		111	112	111
InVigor® LR 4540P			111	109	111
Pioneer® PY428R				105	108
InVigor® R 4520P		108	106	104	107
Hyola® Regiment XC		103	105	109	107
Pioneer® 44Y27 RR		101	107	109	106
InVigor® LR 5040P			106	101	107
Nuseed® Raptor TF		101	104	108	104
Pioneer® PY424GC				103	103
Nuseed® Eagle TF			102	105	101
Sowing date	**6 Jun**	**4 May**	**12 May**	**17 Apr**	**30 Apr**
Rainfall J–M (mm)	**54**	**127**	**13**	**61**	**31**
Rainfall A–O (mm)	**180**	**390**	**373**	**228**	**292**

Special thanks to 2024 trial cooperator, Simon Broun.
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 were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Regiment XC, Pioneer® PY424GC.
Learn more via the NVT Long Term Yield Reporter

Table 6: Dalwallinu low-med rainfall GLY.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)			1.52		
Nuseed® Emu TF	No trial	No trial	121	Compromised trial	Compromised trial
Nuseed® Hunter TF			114		
Pioneer® 44Y27 RR			111		
Hyola® Battalion XC			111		
InVigor® LR 4540P			109		
DG Lofty TF			107		
Nuseed® Raptor TF			105		
InVigor® LR 3540P			103		
Pioneer® 44Y30 RR			103		
InVigor® R 4022P			99		
Sowing date			**19 May**	**31 May**	**1 Jun**
Rainfall J–M (mm)			**121**	**41**	**64**
Rainfall A–O (mm)			**306**	**108**	**220**

Special thanks to 2024 trial cooperator, Amyvale Farms.
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 were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Regiment XC, Pioneer® PY424GC.
Learn more via the NVT Long Term Yield Reporter

Table 7: Yealering low-med rainfall GLY.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.05		3.04	1.93	2.96
Nuseed® Hunter TF		Compromised trial	111	108	108
InVigor® LR 4540P			110	107	107
Pioneer® 44Y27 RR	110		105	103	104
Pioneer® PY424GC				103	103
InVigor® R 4520P	105		106	104	102
Nuseed® Emu TF	114		99	100	102
Pioneer® PY428R					104
Pioneer® PY323G				100	101
InVigor® LR 3540P			99	99	99
Hyola® Regiment XC				101	101
Sowing date	**5 May**	**28 Apr**	**12 May**	**20 Apr**	**25 Apr**
Rainfall J–M (mm)	**63**	**68**	**26**	**42**	**76**
Rainfall A–O (mm)	**177**	**384**	**317**	**270**	**248**

Special thanks to 2024 trial cooperator, Tim Fleay.
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 were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Regiment XC, Pioneer® PY424GC.
Learn more via the NVT Long Term Yield Reporter

Table 8: Bolgart med-high rainfall IMI.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)					
	No trial	No trial	No trial	No trial	Compromised trial
Sowing date					**3 May**
Rainfall J–M (mm)					**65**
Rainfall A–O (mm)					**266**

Special thanks to 2024 trial cooperator, John Young.

Table 9: Williams med-high rainfall IMI.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)					**3.08**
Pioneer® PY421C	No trial	No trial	No trial	No trial	115
Pioneer® 44Y94 CL					112
Pioneer® 45Y95 CL					111
Pioneer® PY327C					108
Hyola® Continuum CL					105
Pioneer® 43Y92 CL					103
Hyola® Solstice CL					101
Sowing date					**24 Apr**
Rainfall J–M (mm)					**6**
Rainfall A–O (mm)					**355**

Special thanks to 2024 trial cooperator, Hal Klugg.
Learn more via the NVT Long Term Yield Reporter

Table 10: Bolgart med-high rainfall TT.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)			**3.60**	**2.27**	
HyTTec® Trifecta	Compromised trial	Compromised trial	109	111	Compromised trial
HyTTec® Trophy			107	110	
Hyola® Blazer TT			107	107	
Pioneer® PY429T				108	
Pioneer® PY520TC				106	
InVigor® T 4511			104	106	
SF Dynatron TT®			104	105	
Hyola® Enforcer CT			102	106	
InVigor® T 4510			102	105	
Nuseed® Griffon TTI				104	
Sowing date	**6 May**	**4 May**	**26 Apr**	**6 May**	**3 May**
Rainfall J–M (mm)	**49**	**122**	**52**	**51**	**65**
Rainfall A–O (mm)	**185**	**353**	**371**	**210**	**266**

Special thanks to 2024 trial cooperator, John Young.
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 were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Defender CT, Nuseed® Griffon TTI, Pioneer® PY520TC.
Learn more via the NVT Long Term Yield Reporter

Table 11: Cunderdin med-high rainfall TT.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)		**1.83**	**3.07**	**1.93**	**2.63**
HyTTec® Trophy	Trial failed	114	107	112	112
HyTTec® Trifecta			107	111	112
Nuseed® Griffon TTI				107	109
InVigor® T 4511		109	105	108	107
SF Dynatron TT®		111	102	106	110
Hyola® Blazer TT		105	102	107	111
Pioneer® PY520TC				107	109
InVigor® LT 4530P		110	100	100	104
SF Spark® TT		104	105	104	99
Hyola® Defender CT			97	100	107
Sowing date	**25 May**	**7 May**	**26 Apr**	**22 Apr**	**29 Apr**
Rainfall J–M (mm)	**98**	**83**	**59**	**52**	**53**
Rainfall A–O (mm)	**136**	**292**	**312**	**194**	**238**

Special thanks to 2024 trial cooperator, Cody Fulwood.
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 were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Defender CT, Nuseed® Griffon TTI, Pioneer® PY520TC.
Learn more via the NVT Long Term Yield Reporter

Table 12: Dandaragan med-high rainfall TT.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)		**3.29**		**2.52**	
HyTTec® Trifecta	Compromised trial		Compromised trial	117	Trial failed
Pioneer® PY429T				113	
Hyola® Blazer TT		113		115	
HyTTec® Trophy		113		111	
Pioneer® PY520TC		110		112	
SF Dynatron TT®		110		108	
RGT Baseline® TT				111	
Hyola® Defender CT				108	
InVigor® T 4511		108		106	
Nuseed® Griffon TTI				103	
Sowing date	**12 Jun**	**16 Apr**	**26 Apr**	**6 May**	**2 May**
Rainfall J–M (mm)	**77**	**84**	**40**	**25**	**0**
Rainfall A–O (mm)	**220**	**455**	**576**	**257**	**419**

Special thanks to 2024 trial cooperator, Carl Moltoni.
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 were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Defender CT, Nuseed® Griffon TTI, Pioneer® PY520TC.
Learn more via the NVT Long Term Yield Reporter

Table 13: Williams med-high rainfall TT.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.40			2.51	2.75
Pioneer® PY429T		Trial failed	Compromised trial	110	112
Hyola® Blazer TT	108			109	110
HyTTec® Trifecta	106			110	109
HyTTec® Trophy	108			108	107
Pioneer® PY520TC				108	108
SF Dynatron TT®	108			106	108
Hyola® Defender CT				105	108
Nuseed® Griffon TTI					104
InVigor® T 4511				105	104
RGT Baseline® TT				103	107
Sowing date	**6 May**	**29 Apr**	**12 May**	**7 May**	**24 Apr**
Rainfall J–M (mm)	**40**	**93**	**18**	**42**	**6**
Rainfall A–O (mm)	**288**	**544**	**445**	**312**	**355**

Special thanks to 2024 trial cooperator, Hal Klugg.
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 were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Defender CT, Nuseed® Griffon TTI, Pioneer® PY520TC.
Learn more via the NVT Long Term Yield Reporter

Table 14: York med-high rainfall TT.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)		2.78	2.78	2.56	2.71
HyTTec® Trophy	Compromised trial	107	110	113	109
Pioneer® PY429T				111	108
HyTTec® Trifecta		108	108	113	108
Hyola® Blazer TT		108	107	109	106
SF Dynatron TT®		106	107	107	105
Pioneer® PY520TC			106	108	104
InVigor® T 4511		104	106	108	106
Nuseed® Griffon TTI					106
Hyola® Defender CT			102	102	100
InVigor® LT 4530P		101	102	99	102
Sowing date	**6 Jun**	**4 May**	**12 May**	**17 Apr**	**30 Apr**
Rainfall J–M (mm)	**54**	**127**	**13**	**61**	**31**
Rainfall A–O (mm)	**180**	**390**	**373**	**228**	**292**

Special thanks to 2024 trial cooperator, Simon Broun.
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 were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Defender CT, Nuseed® Griffon TTI, Pioneer® PY520TC.
Learn more via the NVT Long Term Yield Reporter

Table 15: Dalwallinu low-med rainfall TT.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)			2.89		
HyTTec® Trident	No trial	No trial	112	Compromised trial	Compromised trial
HyTTec® Velocity			111		
InVigor® T 4510			108		
SF Spark® TT			106		
InVigor® T 4511			106		
HyTTec® Trophy			105		
DG Avon TT[4]			103		
SF Dynatron TT®			103		
InVigor® LT 4530P			102		
Monola® 422TT			102		
Sowing date			**19 Apr**	**31 May**	**1 Jun**
Rainfall J–M (mm)			**121**	**41**	**64**
Rainfall A–O (mm)			**306**	**108**	**220**

Special thanks to 2024 trial cooperator, Amyvale Farms.
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 were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Defender CT, Nuseed® Griffon TTI.
Learn more via the NVT Long Term Yield Reporter

Table 16: Yealering low-med rainfall TT.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	1.84		3.00	2.05	2.61
HyTTec® Trident	117	Compromised trial	113	108	112
HyTTec® Velocity			111	107	109
HyTTec® Trophy	106		111	107	109
SF Dynatron TT®	109		110	106	107
Hyola® Blazer TT	102		112	107	107
Nuseed® Griffon TTI				104	106
InVigor® T 4511			105	104	106
InVigor® LT 4530P	104		105	103	104
RGT Baseline® TT			106	103	100
RGT Capacity TT	105		102	102	102
Sowing date	**5 May**	**28 Apr**	**12 May**	**20 Apr**	**25 Apr**
Rainfall J–M (mm)	**63**	**68**	**26**	**42**	**76**
Rainfall A–O (mm)	**177**	**384**	**317**	**270**	**248**

Special thanks to 2024 trial cooperator, Tim Fleay.
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 were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Defender CT, Nuseed® Griffon TTI.
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 2025.

Table 17: Canola disease guide – autumn 2025 ratings and resistance groups.

Variety	2025 autumn blackleg rating			2025 upper canopy infection blackleg rating	Type	Major gene resistance group of cultivar
	Bare	Fluopyram (e.g. ILeVo®)	Pydiflumetofen (e.g. Saltro®)			
CONVENTIONAL VARIETIES						
Outlaw(ф)	RMR	R	R	MR-UCI	Open pollinated	A
Nuseed® Diamond	RMR	R	R	MR-UCI	Hybrid	ABF
Nuseed® Quartz	MR			MR-UCI	Hybrid	ABD
TRIAZINE-TOLERANT VARIETIES						
Pioneer® PY429T	R		R	R-UCI	Hybrid, Triazine	ABH
HyTTec® Trifecta	R			MR-UCI	Hybrid, Triazine	ABD
DG Bidgee TT(ф)	R	R	R	R-UCI	Open pollinated, Triazine	H
HyTTec® Trident	R			MR-UCI	Hybrid, Triazine	AD
HyTTec® Trophy	R	R	R	MR-UCI	Hybrid, Triazine	AD
DG Torrens TT(ф)	RMR			R-UCI	Open pollinated, Triazine	H
Monola® H524TT	RMR			MR-UCI	High stability oil, hybrid, Triazine	AD
Hyola® Blazer TT	RMR		R	MR-UCI	Hybrid, Triazine	ADF
Monola® H421TT	RMR			MR-UCI	High stability oil, hybrid, Triazine	BC
InVigor® T 4511	RMR	R		MR-UCI	Hybrid, Triazine	Unknown
ATR-Bluefin(ф)	RMR			MR-UCI	Open pollinated, Triazine	AB
Renegade TT(ф)	MR	R	R	MR-UCI	Open pollinated, Triazine	A
SF Spark™ TT	MR	R	R	MR-UCI	Hybrid, Triazine	ABDS
HyTTec® Velocity	MR			MR-UCI	Hybrid, Triazine	AB
Monola® 422TT	MR			MR-UCI	High stability oil, open pollinated, Triazine	BC
DG Avon TT(ф)	MR		R	MR-UCI	Open pollinated, Triazine	AC
SF Dynatron™ TT	MRMS	R	R	MRMS-UCI	Hybrid, Triazine	BC
ATR-Swordfish(ф)	MRMS			MRMS-UCI	Open pollinated, Triazine	AB
RGT Baseline™ TT	MRMS	RMR	R	MRMS-UCI	Hybrid, Triazine	B
Bandit TT(ф)	MRMS	RMR	R	MRMS-UCI	Open pollinated, Triazine	A
RGT Capacity™ TT	MRMS	RMR	R	MRMS-UCI	Hybrid, Triazine	B
ATR-Bonito(ф)	MS	MR	RMR	MS-UCI	Open pollinated, Triazine	A
IMIDAZOLINONE-TOLERANT VARIETIES						
Captain CL	R			R-UCI	Winter, hybrid, Clearfield®	AH
Hyola® Solstice CL	R		R	R-UCI	Hybrid, Clearfield®	ADFH
Hyola® Feast CL	R		R	R-UCI	Winter, hybrid, Clearfield®	H
Phoenix CL	R			MR-UCI	Winter, hybrid, Clearfield®	B
Hyola® 970CL	R		R	R-UCI	Winter, hybrid, Clearfield®	H
RGT Nizza™ CL	R			MR-UCI	Winter, hybrid, Clearfield®	B
Pioneer® PN526C	R		R	MR-UCI	High stability oil, hybrid, Clearfield®	ABD
Pioneer® PY327C	R		R	MR-UCI	Hybrid, Clearfield®	AB
RGT Clavier™ CL	R			R-UCI	Winter, hybrid, Clearfield®	ACH
Pioneer® 45Y95 CL	RMR			MR-UCI	Hybrid, Clearfield®	C
Pioneer® PY421C	RMR		R	MR-UCI	Hybrid, Clearfield®	A
Nuseed® Ceres IMI	RMR			MR-UCI	Hybrid, Imidazolinone	AD
Pioneer® 43Y92 CL	RMR	R	R	MR-UCI	Hybrid, Clearfield®	B
VICTORY® V75-03CL	RMR	R		MR-UCI	High stability oil, hybrid, Clearfield®	AB
Pioneer® 44Y94 CL	RMR			MR-UCI	Hybrid, Clearfield®	BC

Continued on next page

Table 17: Canola disease guide – autumn 2025 ratings and resistance groups (continued).

Variety	2025 autumn blackleg rating			2025 upper canopy infection blackleg rating	Type	Major gene resistance group of cultivar
	Bare	Fluopyram (e.g. ILeVo®)	Pydiflumetofen (e.g. Saltro®)			
IMIDAZOLINONE AND TRIAZINE-TOLERANT VARIETIES						
Hyola® Defender CT	R		R	MR-UCI	Hybrid, Clearfield®, Triazine	ADF
Pioneer® PY520 TC	RMR		R	MR-UCI	Hybrid, Clearfield®, Triazine	BC
Nuseed® Griffon TTI	RMR			MR-UCI	Hybrid, Imidazolinone, Triazine	AC
GLYPHOSATE-TOLERANT VARIETIES						
DG Hotham TF	R			R-UCI	Hybrid, TruFlex®	ABH
Nuseed® Raptor TF	R			MR-UCI	Hybrid, TruFlex®	AD
Nuseed® Eagle TF	R			MR-UCI	Hybrid, TruFlex®	ABD
VICTORY® V55-04TF	R	R		MR-UCI	High stability oil, hybrid, TruFlex®	AB
DG Lofty TF	R			R-UCI	Hybrid, TruFlex®	ABH
Nuseed® Hunter TF	RMR			MR-UCI	Hybrid, TruFlex®	AB
Pioneer® PY422G	RMR		R	MR-UCI	Hybrid, Optimum GLY®	AB
Pioneer® 44Y27 RR	RMR	R	R	MR-UCI	Hybrid, Roundup Ready®	B
DG Buller G	RMR			R-UCI	Hybrid, Optimum GLY®	H
Nuseed® Emu TF	MR			MR-UCI	Hybrid, TruFlex®	AB
Pioneer® PY525G	MR		R	MR-UCI	Hybrid, Optimum GLY®	AB
Pioneer® PY323G	MR		R	MR-UCI	Hybrid, Optimum GLY®	BC
Pioneer® PY428R	MR		R	MR-UCI	Hybrid, Roundup Ready®	B
InVigor® R 4520P	MRMS	R		MRMS-UCI	Hybrid, Truflex®	B
GLYPHOSATE AND IMIDAZOLINONE-TOLERANT VARIETIES						
Hyola® Regiment XC	R	R	R	R-UCI	Hybrid, TruFlex®, Clearfield®	ADFH
Pioneer® PY424GC	MR		R	MR-UCI	Hybrid, TruFlex®, Clearfield®	BC
GLUFOSINATE AND TRIAZINE-TOLERANT VARIETIES						
InVigor® LT 4530P	RMR	R		MR-UCI	Hybrid, LibertyLink®, Triazine	BF
GLUFOSINATE AND GLYPHOSATE-TOLERANT VARIETIES						
InVigor® LR 4540P	RMR	R		MR-UCI	Hybrid, LibertyLink®, TruFlex®	B
InVigor® LR 5040P	RMR	R		MR-UCI	Hybrid, LibertyLink®, TruFlex®	AB
InVigor® LR 3540P	MR	R		MR-UCI	Hybrid, LibertyLink®, TruFlex®	AB

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible.
Please check updated ratings using the Blackleg Management Guide or the NVT Disease Ratings.

CHICKPEA

Chickpea variety yield performance – Kwinana West

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: Cunderdin desi chickpea.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	0.76	1.32	1.24	0.57	
PBA Slasher(ф)	101	103	104	101	No trial
PBA Striker(ф)	105	102	100	103	
CBA Captain(ф)	110	101	93	109	
Neelam(ф)	98	99	100	95	
PBA Maiden	92	92	97	96	
Genesis® 836	91	87	90	94	
PBA Seamer(ф)			91		
Genesis® 090	76	78	92	84	
Sowing date	**28 May**	**4 Jun**	**8 Jun**	**31 May**	
Rainfall J–M (mm)	**98**	**98**	**45**	**39**	
Rainfall A–O (mm)	**136**	**311**	**295**	**215**	

No 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 2: Dalwallinu desi chickpea.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	0.88	1.84	1.05	0.36	
PBA Slasher(ф)	99	100	108	106	No trial
PBA Striker(ф)	98	101	106	109	
Neelam(ф)	96	103	102	102	
CBA Captain(ф)	102	97	95	105	
PBA Maiden	90	98	101	101	
Genesis® 836	92	97	88	92	
Genesis® 090	84	97	90	86	
PBA Seamer(ф)			94		
Sowing date	**27 May**	**20 May**	**1 Jun**	**31 May**	
Rainfall J–M (mm)	**97**	**134**	**42**	**33**	
Rainfall A–O (mm)	**161**	**331**	**250**	**139**	

No 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

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

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 2025.

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: Chickpea disease guide for Western Australia.

Variety	Ascochyta blight (pathogen group 2 – north)	2022-23 Phytophthora root rot	RLN resistance (*Pratylenchus neglectus*)	RLN tolerance (*Pratylenchus neglectus*)
DESI				
CBA Captain[Φ]	MS (P)	S	MR	MT
Genesis® 836	S		MR	MII
Kyabra[Φ]	VS	VS	MRMS	MT
Neelam[Φ]	S		MRMS	MI
PBA Boundary[Φ]	S	VS	RMR	MTMI
PBA Drummond[Φ]	VS	VS	MR	TMT
PBA HatTrick[Φ]	S	S	MRMS	MT
PBA Maiden	S		MRMS	MI
PBA Pistol[Φ]	VS		RMR	T
PBA Seamer[Φ]	MS	S	MRMS	MTMI
PBA Slasher[Φ]	S		MRMS	MI
PBA Striker[Φ]	S		MRMS	MI
KABULI				
Almaz[Φ]	MS		MRMS	MI
Genesis® 090	MS		MRMS	IVI
Genesis® Kalkee	S		MRMS	VI
PBA Magnus[Φ]	MS		MRMS	MI
PBA Monarch[Φ]	MS (P)		MRMS	IVI
PBA Royal[Φ]	MS		MR (P)	MII

Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant, (P) = provisional rating, - hyphen indicates a range, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes, ^ line contains a few susceptible off types, ( ) show outlier.

FIELD PEA

Field pea variety yield performance – Kwinana West

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: Dalwallinu field pea.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	1.94	2.32	2.35	0.98	1.86
APB Bondi[Φ]	118	111	114	107	113
PBA Taylor[Φ]	108	104	110	108	120
PBA Wharton[Φ]	104	96	105	102	116
PBA Butler[Φ]	105	110	104	102	86
Kaspa	98	98	102	102	100
PBA Oura[Φ]	97	101	96	99	100
PBA Gunyah[Φ]	96	100	98	100	99
PBA Twilight[Φ]	97	93	97	97	101
GIA Kastar[Φ]*	91	71	92	86	84
GIA Ourstar[Φ]*	86	86	83	86	77
Sowing date	**27 May**	**20 May**	**1 Jun**	**31 May**	**4 Jun**
Rainfall J–M (mm)	**97**	**134**	**42**	**33**	**77**
Rainfall A–O (mm)	**161**	**331**	**250**	**139**	**256**

Special thanks to 2024 trial cooperator, Gowrie Farms.

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

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

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 2025.

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: Field pea disease guide for Western Australia.

Variety	Bacterial blight	Downy mildew	Powdery mildew	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)
APB Bondi(Φ)	S	RMR (S)	RMR	RMR	MSS
GIA Kastar(Φ)	S	S	RMR	MR	MS
GIA Ourstar(Φ)	S (P)	S	S	MRMS	MS
Kaspa	S	S	S	RMR	MRMS
PBA Butler(Φ)	MS	S	S	RMR	MRMS
PBA Gunyah(Φ)	S	S	S	RMR	MRMS
PBA Noosa(Φ)	S	MS	S	RMR	MRMS
PBA Oura(Φ)	MS	S	S	MR	MRMS (P)
PBA Pearl	MS	S	S	MR	MRMS
PBA Percy	MRMS	S	S	RMR	RMR
PBA Taylor(Φ)	S	S	S	RMR	MRMS
PBA Twilight(Φ)	S	S	S	MR	MRMS
PBA Wharton(Φ)	S	S	R (S)	MR	MRMS

Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible,
T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant,
(P) = provisional rating, - hyphen indicates a range, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes,
^ line contains a few susceptible off types, ( ) show outlier.

LENTIL

Lentil variety yield performance – Kwinana West

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: Dalwallinu lentil.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	1.48	1.69	1.86	0.65	1.39
GIA Thunder(Ф)*	120	115	115	111	99
GIA Lightning(Ф)*	114	106	105	117	109
ALB Terrier(Ф)*		111	108	107	94
PBA Jumbo2(Ф)	104	109	108	99	98
PBA HighlandXT(Ф)*	104	99	103	102	102
PBA Hallmark XT(Ф)*	106	99	103	98	90
PBA Bolt(Ф)	95	95	94	105	112
PBA Hurricane XT(Ф)*	96	101	98	97	99
GIA Leader(Ф)*	98	100	97	97	92
PBA KelpieXT(Ф)*	86	101	100	87	104
Sowing date	**27 May**	**20 May**	**1 Jun**	**31 May**	**4 Jun**
Rainfall J–M (mm)	**97**	**134**	**42**	**33**	**77**
Rainfall A–O (mm)	**161**	**331**	**250**	**139**	**256**

Special thanks to 2024 trial cooperator, Gowrie Farms.
* herbicide-tolerant variety, [1] IMI-trial.
Learn more via the NVT Long Term Yield Reporter

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

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 2025.

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 XTΦ virulent)	Ascochyta blight (Pathotype 1 NipperΦ virulent)	Botrytis grey mould	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)
IMI-TOLERANT					
ALB TerrierΦ	MR	R	MRMS	MRMS (P)	MRMS
GIA LeaderΦ	MR	MR	MRMS	MRMS (P)	MR (P)
GIA LightningΦ	MRMS (P)	R (P)	MS	MRMS (P)	MR (P)
GIA MetroΦ	RMR	MR	MRMS	MRMS	MRMS (P)
GIA SireΦ	MRMS (P)	R (P)	MS	MRMS	MRMS (P)
GIA ThunderΦ	MRMS (P)	R (P)	MRMS	MRMS	MR (P)
PBA Hallmark XTΦ	MRMS	RMR	MRMS	MR	MRMS
PBA HighlandXTΦ	MR	MR	MS	MRMS	MRMS
PBA Hurricane XTΦ	MRMS (P)	RMR	MS	MRMS	MRMS
PBA KelpieXTΦ	MRMS	MRMS	MS	MRMS	MRMS
CONVENTIONAL					
PBA BoltΦ	MRMS	MR	S	MR	MR
PBA Jumbo2Φ	RMR	R	MS	MR	MRMS

Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible,
T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant,
(P) = provisional rating, - hyphen indicates a range, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes,
^ line contains a few susceptible off types, ( ) show outlier.

LUPIN

Lupin variety yield performance – Kwinana West

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: Corrigin narrow-leaf lupin.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)					
	No trial	No trial	No trial	No trial	Compromised trial
Sowing date					**9 May**
Rainfall J–M (mm)					**121**
Rainfall A–O (mm)					**104**

Special thanks to 2024 trial cooperator, Lyndon Baker.

Table 2: Cunderdin narrow-leaf lupin.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	1.20	2.25	1.00	1.52	
Coyote[Φ]	107	114	126	113	Compromised trial
Rosemont[Φ]			120	113	
Gidgee[Φ]		109	114	106	
PBA Jurien[Φ]	105		107	112	
PBA Bateman[Φ]	103	105	109	109	
Lawler[Φ]	103	106	110	104	
PBA Gunyidi[Φ]	102	102	104	106	
PBA Barlock[Φ]	102	101	99	108	
Mandelup[Φ]	101	101	101	102	
Coromup[Φ]	96	95	100	91	
Sowing date	**25 May**	**7 May**	**2 May**	**5 May**	**30 May**
Rainfall J–M (mm)	**98**	**83**	**59**	**52**	**53**
Rainfall A–O (mm)	**136**	**292**	**312**	**194**	**238**

Special thanks to 2024 trial cooperator, Cody Fulwood.
Learn more via the NVT Long Term Yield Reporter

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

Table 3: Dandaragan narrow-leaf lupin.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	1.84	4.00	1.86	2.05	2.23
Coyote[Ф]	122	115	117	132	112
Rosemont[Ф]			121	126	114
PBA Jurien[Ф]	114		113	113	108
Gidgee[Ф]		102	113	117	109
PBA Bateman[Ф]	104	112	106	113	104
Lawler[Ф]	113	102	108	112	106
PBA Barlock[Ф]	103	108	106	103	103
PBA Gunyidi[Ф]	101	108	104	106	102
Mandelup[Ф]	104	101	103	102	102
Coromup[Ф]	83	98	86	93	92
Sowing date	**8 May**	**26 Apr**	**1 May**	**6 May**	**1 Jun**
Rainfall J–M (mm)	**77**	**84**	**40**	**25**	**0**
Rainfall A–O (mm)	**220**	**455**	**576**	**257**	**419**

Special thanks to 2024 trial cooperator, Carl Moltoni.
Learn more via the NVT Long Term Yield Reporter

Table 4: Pingelly narrow-leaf lupin.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.26	2.49	2.80	0.77	
Coyote[Ф]	117	126	106	120	
PBA Bateman[Ф]	106	123	110	111	
PBA Jurien[Ф]	111		110	106	
Rosemont[Ф]			102	111	
PBA Gunyidi[Ф]	103	114	108	105	No trial
PBA Barlock[Ф]	104	108	110	102	
Gidgee[Ф]		97	97	106	
Lawler[Ф]	109	99	98	105	
Mandelup[Ф]	102	99	101	100	
Coromup[Ф]	89	111	94	102	
Sowing date	**6 May**	**19 May**	**12 May**	**20 May**	
Rainfall J–M (mm)	**45**	**78**	**18**	**50**	
Rainfall A–O (mm)	**293**	**441**	**367**	**282**	

No 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 5: Wongan Hills narrow-leaf lupin.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)		2.57	2.28	0.96	2.06
Coyote[Ф]		109	128	107	110
Rosemont[Ф]			120	106	106
Gidgee[Ф]		106	115	103	104
PBA Jurien[Ф]			103	106	102
PBA Bateman[Ф]	Trial failed	106	107	105	104
Lawler[Ф]		104	111	102	103
PBA Gunyidi[Ф]		104	101	103	102
PBA Barlock[Ф]		108	94	105	99
Mandelup[Ф]		102	100	101	100
Coromup[Ф]		88	104	95	102
Sowing date	**1 May**	**4 May**	**12 May**	**15 May**	**1 Jun**
Rainfall J–M (mm)	**74**	**110**	**63**	**24**	**65**
Rainfall A–O (mm)	**205**	**292**	**320**	**144**	**266**

Special thanks to 2024 trial cooperator, John Young.
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 2025.

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: Lupin disease guide for Western Australia.

Variety	Anthracnose	Bean yellow mosaic virus (BYMV)	Cucumber mosaic virus (CMV)	Phomopsis pod infection	Phomopsis stem infection	Sclerotinia stem rot
Coromup[Φ]	MRMS	S (P)	MR	S	MR	S (P)
Coyote[Φ]	MS	MR (P)	MRMS	MRMS	S	S (P)
Gidgee[Φ]	MRMS	S (P)	MRMS	S	MR	S (P)
Jenabillup[Φ]	MRMS		MRMS	MR	MS	S (P)
Lawler[Φ]	MS	MS (P)	MRMS	MS	MR	S (P)
Mandelup[Φ]	MRMS	S (P)	MRMS	S	MR	S (P)
PBA Barlock[Φ]	S	MS (P)	MRMS	MR	MR	S (P)
PBA Bateman[Φ]	MRMS	MR (P)	MR	S	RMR	S (P)
PBA Gunyidi[Φ]	MS	MS (P)	MRMS	MRMS	RMR	S (P)
PBA Jurien[Φ]	MS	MRMS (P)	MS	MRMS	RMR	S (P)
PBA Leeman[Φ]	MR	S (P)	MRMS	MRMS	MR	S (P)
Rosemont[Φ]	MRMS (P)	MRMS (P)	MR	MRMS	MR	S (P)
Wonga	MS	MS (P)	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, T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant, (P) = provisional rating, - hyphen indicates a range, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes, ^ line contains a few susceptible off types, ( ) show outlier.

GRDC
NATIONAL VARIETY TRIALS™

NVT tools

Trial results

Long term yield reporter

NVT disease ratings

Harvest Reports & Crop Sowing Guide

nvt.grdc.com.au

Subscribe to NVT notifications that are sent the moment results for your local NVT trials are available.

Subscribe to receive the latest NVT publications (Harvest Reports and Crop Sowing Guides), and other NVT communications.

@GRDC_NVT