NVT
HARVEST REPORT

GRDC NATIONAL VARIETY TRIALS™

REVISED MAY 2024

Eyre Peninsula
Southern Region

nvt.grdc.com.au

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NVT Harvest Report – Eyre Peninsula

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PHOTO: Trevor Garnett, GRDC

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LEGEND: MEAN VARIETY YIELD PERFORMANCE

LOW **HIGH**

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

DISEASE RATING COLOUR RANGE

VS	SVS	S	MSS	MS	MRMS	MR	RMR	R

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

The disease ratings in the report are current at the time of publication.
Regularly visit nvt.grdc.com.au/nvt-disease-ratings 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 - Eyre Peninsula provides information to support growers and advisers with decisions on variety selection for **Eyre Peninsula**. The information has been generated from the Grains Research and Development Corporation's (GRDC) National Variety Trials (NVT) database. This publication provides a summary of the 2023 and long-term yield performance of varieties of crop species suitable for production in **Eyre Peninsula** 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 - Eyre Peninsula***, 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 **Eyre Peninsula**.

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.

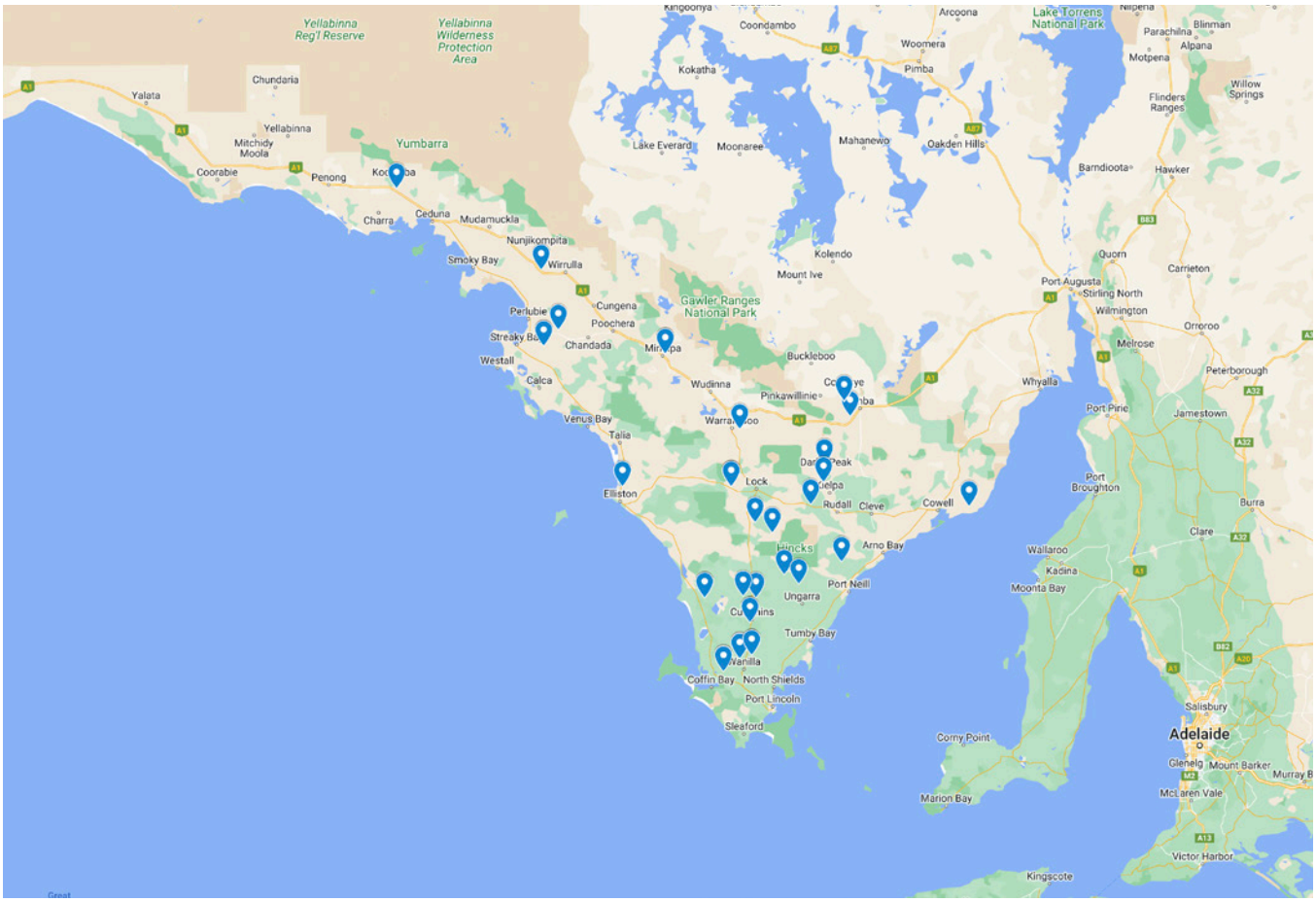
Trials listed as compromised are not suitable for making variety decisions. Results can be found in the Quarantined trial reports.

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

NVT SITE LOCATIONS – Eyre Peninsula

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

SOURCE: NVT Online



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

WHEAT

New wheat varieties

The following information is for wheat varieties released in the 12 months to the date when the MET analysis was published on NVT online. Please go to 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]
Dozer(Þ) CL Plus	InterGrain	TBC	3.90	Dozer(Þ) CL Plus is a quick-mid maturing APW Clearfield® Plus wheat. Dozer(Þ) CL Plus pushes mid and quick-mid imidazolinone wheat yields and is an excellent alternative to Chief CL Plus. It is best suited to low-medium rainfall areas in Western Australia and South Australia. Dozer(Þ) CL Plus has strong lodging resistance, moderate early vigour, medium plant height and medium coleoptile length. Dozer(Þ) CL Plus offers good grain size and test weight. Proactive disease management of stripe rust and CCN in South Australia is recommended with Dozer(Þ) CL Plus to maximise yield and quality potential.
Genie(Þ)	InterGrain	AH	3.50	Genie(Þ) is a mid-slow maturing wheat and is an excellent alternative to RockStar(Þ) in greater than three-tonne-per-hectare yield environments. In these environments, the variety offers medium-high rainfall growers a yield improvement compared with RockStar(Þ). Genie(Þ), with its slightly later maturity than RockStar(Þ) and long coleoptile, enables earlier sowing opportunities to be maximised. Genie(Þ) has an excellent disease resistance package including useful stem rust and stripe rust resistances. It offers good test weight, moderate grain size and has a medium plant height. Preliminary internal data indicates Genie(Þ) has good sprouting tolerance. Genie(Þ) has an AH classification in the western and southern zones and an AH classification is expected for the south-eastern and northern zones in 2024.
LRPB Major(Þ)	LongReach Plant Breeders	AH	4.00	Mid-slow maturing spring wheat (similar to Beckom(Þ) and RockStar(Þ)) suitable for early to mid May seeding opportunities throughout southern NSW. Good disease package for southern NSW and Victorian production systems with improved Septoria resistance over its Beckom(Þ) parent. Strong yield performance in both acidic and sodic soil yield trials. AH classification southern NSW, Victoria and South Australia. Marketed by Pacific Seeds.
LRPB Matador(Þ)	LongReach Plant Breeders	AH	3.50	Mid-maturity AH wheat that has consistently outperformed Scepter(Þ) with an improved shorter canopy and better lodging tolerance. Improved powdery mildew (MS) and stripe rust resistance (MS) over Scepter(Þ), adding some minor genes for both diseases. AH quality in SA and Victoria and commercialised by Pacific Seeds.
Soaker(Þ)	LongReach Plant Breeders	APW	3.50	Mid-maturity derived from Scepter(Þ) with agronomy traits being very similar. Addition of one imidazolinone resistance gene so it can be grown as a 'soaker' crop to break the imidazolinone cycle and cover off residual imidazolinone carryover into the wheat year. Quality APW in South Australia and Victoria and available from AG Schilling & Co.
Tomahawk CL Plus(Þ)	Australian Grain Technologies	APW	4.15	Scepter(Þ)-type Clearfield® variety with increased yield over Scepter(Þ). The highest-yielding Clearfield® wheat variety in Western Australia, South Australia and Victoria. Tolerant to Clearfield® Intervix® herbicide. Similar disease resistance profile to Scepter(Þ). Similar grain size and test weight as Scepter(Þ). Mid-season maturity, similar to Scepter(Þ). APW quality classification in SA, Victoria, southern NSW, classification for WA pending.

* EPR amount is ex-GST, (Þ) 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

Wheat variety yield performance – Eyre Peninsula

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: Cummins main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	5.85	4.54	5.17		6.11
Tomahawk CL Plus⌀*					118
Vixen⌀	123	122	106		106
Kingston⌀		123	103		104
LRPB Matador⌀					109
Scepter⌀	105	114	111		111
Soaker⌀					110
Sunmaster⌀			106	Trial failed	110
Brumby⌀			110		112
Ballista⌀	109	115	105		108
RockStar⌀	103	116	105		109
Calibre⌀		112	110		111
Sunblade CL Plus⌀*		111	104		107
Boree⌀		112	105		106
Dozer⌀ CL Plus*					103
Denison⌀			109		110
Sowing date	16 May	05 May	24 May	19 May	12 May
Rainfall J–M (mm)	3	41	54	147	33
Rainfall A–O (mm)	307	366	327	386	268

Special thanks to 2023 trial cooperator, K Modra & SC Modra.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 2: Kimba main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	0.32	2.23	2.90	5.91	4.00
Tomahawk CL Plus⌀*				103	122
Vixen⌀	143	108	134	112	110
LRPB Matador⌀				110	113
Calibre⌀		117	126	104	116
Ballista⌀	136	114	121	111	111
RockStar⌀	113	112	111	113	111
Brumby⌀			115	106	114
Dozer⌀ CL Plus*			116		106
Scepter⌀	119	107	120	102	113
Boree⌀		107	115	107	108
Sunblade CL Plus⌀*		109	105	107	108
Soaker⌀					111
Catapult⌀	104	105	108	103	108
Genie⌀					100
Razor CL Plus⌀*	132	102	122	93	107
Sowing date	2 May	4 May	26 May	10 May	3 May
Rainfall J–M (mm)	8	55	57	235	47
Rainfall A–O (mm)	132	253	226	265	161

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

Table 3: Minnipa main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.78	1.72	2.65	4.48	1.41
Vixen⌀	118	103	110	119	107
LRPB Matador⌀				113	113
Ballista⌀	114	109	109	114	109
Tomahawk CL Plus⌀*				107	120
RockStar⌀	106	113	108	113	110
Calibre⌀		111	115	105	116
Dozer⌀ CL Plus*			106		105
Brumby⌀			111	107	114
Boree⌀		107	107	108	108
Genie⌀					98
Sunblade CL Plus⌀*		106	104	108	105
Scepter⌀	101	104	111	103	112
Soaker⌀					110
Catapult⌀	96	107	107	102	109
Sunmaster⌀			102	104	104
Sowing date	8 May	12 May	27 May	5 May	23 May
Rainfall J–M (mm)	5	77	44	89	38
Rainfall A–O (mm)	216	218	210	300	168

Special thanks to 2023 trial cooperator, Minnipa Agricultural Centre.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 4: Mitchellville main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.03	2.00		3.80	2.73
Reilly⌀				112	119
Ballista⌀	116	112		105	116
Genie⌀					110
Calibre⌀		117		101	112
Dozer⌀ CL Plus*					106
Vixen⌀	139	106		92	115
RockStar⌀	95	111		109	102
Sunblade CL Plus⌀*		111	Trial failed	100	111
LRPB Matador⌀				99	107
LRPB Major⌀					99
Cosmick⌀	104	103		101	108
Boree⌀		106		101	100
Emu Rock⌀	128	94		89	111
LRPB Dual⌀				102	102
Brumby⌀				96	98
Sowing date	8 May	11 May	8 Jun	9 May	5 May
Rainfall J–M (mm)	2	60	45	174	74
Rainfall A–O (mm)	99	215	122	226	159

Special thanks to 2023 trial cooperator, The Kaden family.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 5: Nunjikompita main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.08	1.01	1.23	3.35	0.65
Calibre(ↀ)		106	116	103	121
RockStar(ↀ)	110	111	104	112	103
LRPB Matador(ↀ)				107	111
Ballista(ↀ)	115	107	108	107	112
Tomahawk CL Plus(ↀ)*				101	119
Brumby(ↀ)			108	107	107
Vixen(ↀ)	115	101	107	105	109
Dozer(ↀ) CL Plus*			103		103
Boree(ↀ)		105	105	106	104
Scepter(ↀ)	112	101	109	102	110
Catapult(ↀ)	106	104	105	105	102
Sunblade CL Plus(ↀ)*		105	102	105	106
Genie(ↀ)					96
LRPB Major(ↀ)					101
Soaker(ↀ)					106
Sowing date	**14 May**	**18 May**	**7 Jun**	**10 May**	**18 May**
Rainfall J–M (mm)	**11**	**46**	**44**	**88**	**29**
Rainfall A–O (mm)	**165**	**256**	**183**	**253**	**154**

Special thanks to 2023 trial cooperator, Rule Family Trust.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 6: Penong main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	0.43		0.52	2.31	0.70
Vixen(ↀ)	100	Trial failed	141	109	121
Ballista(ↀ)	108		120	110	119
LRPB Matador(ↀ)				105	124
Calibre(ↀ)			122	103	131
Reilly(ↀ)				110	103
Dozer(ↀ) CL Plus*			115		111
RockStar(ↀ)	108		98	106	112
Tomahawk CL Plus(ↀ)*				95	136
Genie(ↀ)					92
Boree(ↀ)			109	102	113
Sunblade CL Plus(ↀ)*			100	105	107
Emu Rock(ↀ)	95		129	100	103
Razor CL Plus(ↀ)*	89		132	95	119
Brumby(ↀ)			102	99	118
Scepter(ↀ)	92		115	96	120
Sowing date	**3 May**	**15 May**	**31 May**	**29 Apr**	**5 May**
Rainfall J–M (mm)	**6**	**50**	**53**	**5**	**35**
Rainfall A–O (mm)	**138**	**225**	**167**	**331**	**123**

Special thanks to 2023 trial cooperator, CG & AL Drummond Pty Ltd.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 7: Piednippie main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.28	0.87	2.62	4.06	1.36
Tomahawk CL Plus(ↀ)*				107	111
Calibre(ↀ)		109	116	106	106
LRPB Matador(ↀ)				108	103
RockStar(ↀ)	111	106	109	112	103
Brumby(ↀ)			112	110	106
Ballista(ↀ)	114	107	107	108	103
Vixen(ↀ)	116	109	108	105	101
Boree(ↀ)		106	109	107	102
Scepter(ↀ)	107	104	111	105	106
Dozer(ↀ) CL Plus*			107		99
Catapult(ↀ)	105	103	110	106	103
Soaker(ↀ)					106
Sunblade CL Plus(ↀ)*		101	100	106	104
Sheriff CL Plus(ↀ)	101	102	106	104	100
LRPB Major(ↀ)					100
Sowing date	**7 May**	**18 May**	**26 May**	**6 May**	**19 May**
Rainfall J–M (mm)	**7**	**31**	**67**	**144**	**16**
Rainfall A–O (mm)	**273**	**240**	**289**	**384**	**195**

Special thanks to 2023 trial cooperator, Hollitt Pastoral Pty Ltd.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 8: Rudall main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		1.77	2.60	5.67	
Tomahawk CL Plus(ↀ)*	Compromised trial			108	Compromised trial
Calibre(ↀ)		115	127	109	
Brumby(ↀ)			120	110	
RockStar(ↀ)		110	113	112	
LRPB Matador(ↀ)				108	
Denison(ↀ)			115	110	
Scepter(ↀ)		112	121	105	
Ballista(ↀ)		109	116	108	
Devil(ↀ)		109	114	107	
Sunmaster(ↀ)			110	108	
Sunblade CL Plus(ↀ)*		106	110	108	
Catapult(ↀ)		108	111	106	
Boree(ↀ)		107	111	106	
Vixen(ↀ)		107	116	103	
Cutlass(ↀ)		103	101	108	
Sowing date	**15 May**	**11 May**	**27 May**	**24 May**	**15 May**
Rainfall J–M (mm)	**4**	**33**	**49**	**159**	**36**
Rainfall A–O (mm)	**216**	**264**	**254**	**294**	**152**

Special thanks to 2023 trial cooperator, Matthew, Mignon & Harry Dunn.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 9: Wanilla main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		5.47		6.00	5.09
Kingston(ф)	Trial failed	124	Compromised trial	107	107
Tomahawk CL Plus(ф)*				105	115
Vixen(ф)		119		108	108
Sunmaster(ф)				104	105
LRPB Matador(ф)				106	108
Soaker(ф)					109
Scepter(ф)		109		103	109
Ballista(ф)		109		107	104
Brumby(ф)				105	108
RockStar(ф)		107		107	105
Sunblade CL Plus(ф)*		109		105	103
Dozer(ф) CL Plus*					103
Boree(ф)		105		104	105
Calibre(ф)		100		105	106
Denison(ф)				103	107
Sowing date	**17 May**	**12 May**	**21 Jun**	**16 May**	**17 May**
Rainfall J–M (mm)	**5**	**62**	**55**	**139**	**52**
Rainfall A–O (mm)	**346**	**397**	**450**	**470**	**329**

Special thanks to 2023 trial cooperator, GS & KS Charlton.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 10: Warramboo main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.88	1.05	3.42	5.75	
Tomahawk CL Plus(ф)*				118	Compromised trial
Vixen(ф)	124	145	107	112	
LRPB Matador(ф)				111	
Calibre(ф)		131	112	110	
Ballista(ф)	119	125	107	110	
Scepter(ф)	105	118	112	110	
Brumby(ф)			111	110	
Devil(ф)	109	120	107	108	
Razor CL Plus(ф)*	108	129	108	105	
RockStar(ф)	109	108	107	109	
Boree(ф)		118	105	106	
Sunblade CL Plus(ф)*		97	107	108	
LRPB Anvil(ф) CL Plus*		131	107	101	
Sunmaster(ф)			111	109	
Catapult(ф)	99	107	106	105	
Sowing date	**7 May**	**18 May**	**27 May**	**26 May**	**4 May**
Rainfall J–M (mm)	**4**	**42**	**42**	**69**	**30**
Rainfall A–O (mm)	**257**	**223**	**162**	**263**	**120**

Special thanks to 2023 trial cooperator, Kane & David Murphy.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 11: Minnipa early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		1.99	3.94	4.63	2.14
IGW6755	Trial failed				104
Stockade(ф)				119	98
Genie(ф)					116
LRPB Major(ф)					115
RockStar(ф)		99	103	112	111
Denison(ф)		104	108	103	113
Valiant(ф) CL Plus*			106	109	108
DS Bennett(ф)		114	97	117	81
Cutlass(ф)		101	103	104	105
Catapult(ф)		102	103	97	113
Illabo(ф)		105	102	104	92
Longsword(ф)		109	106	90	99
Brumby(ф)					110
EG Titanium		91	96	100	97
DS Pascal(ф)		91	93	103	93
Sowing date	**12 Apr**	**15 Apr**	**20 Apr**	**19 Apr**	**19 Apr**
Rainfall J–M (mm)	**5**	**77**	**44**	**89**	**38**
Rainfall A–O (mm)	**216**	**218**	**210**	**300**	**168**
Irrigation A–O (mm)			**20**		

Special thanks to 2023 trial cooperator, Minnipa Agricultural Centre.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Wheat variety quality – Eyre Peninsula

Grain quality for individual varieties varies from site to site and from year to year. However, long-term and across-site trends highlight varieties that can consistently achieve high protein percentage, high test weight or low grain screenings under a wider range of environments.

The following figures show the grain quality trends as histograms from 2022 and 2023 NVT averaged for trials in the Eyre Peninsula 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 nine NVT sites in Eyre Peninsula in 2022.

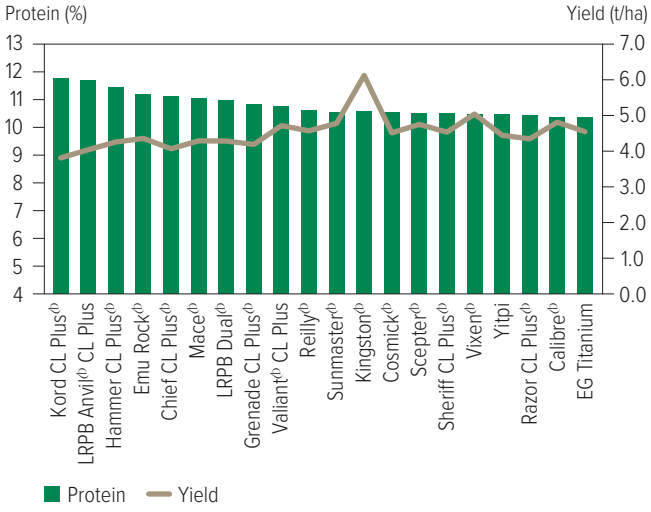


Figure 2: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from eight NVT sites in Eyre Peninsula in 2023.

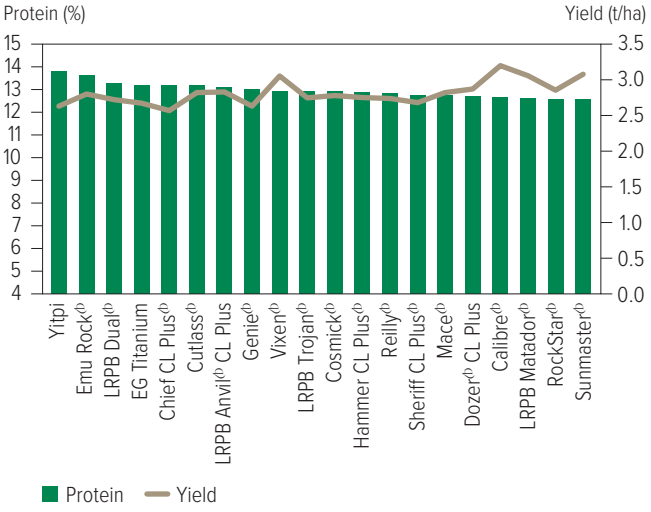


Figure 3: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from one NVT site in Eyre Peninsula in 2022.

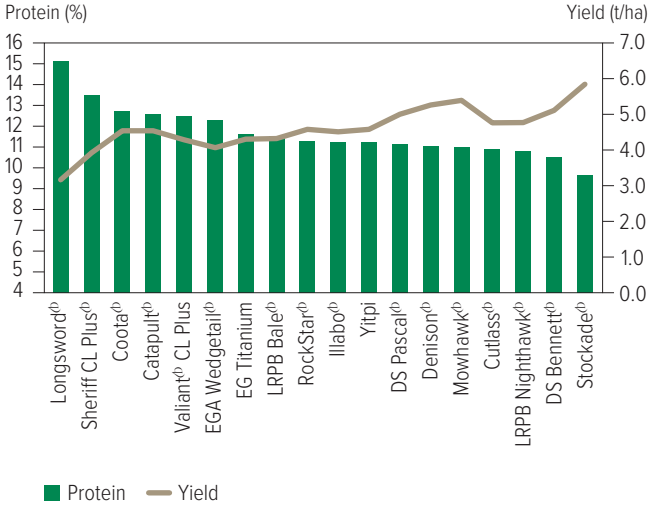
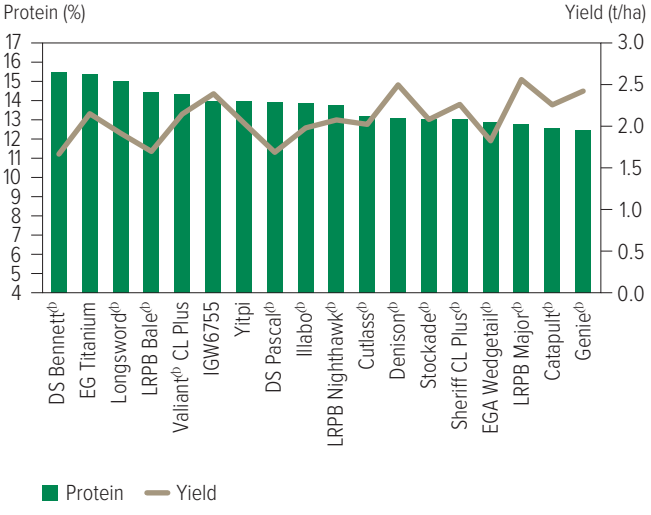


Figure 4: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from one NVT site in Eyre Peninsula in 2023.



Test weight comparisons

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

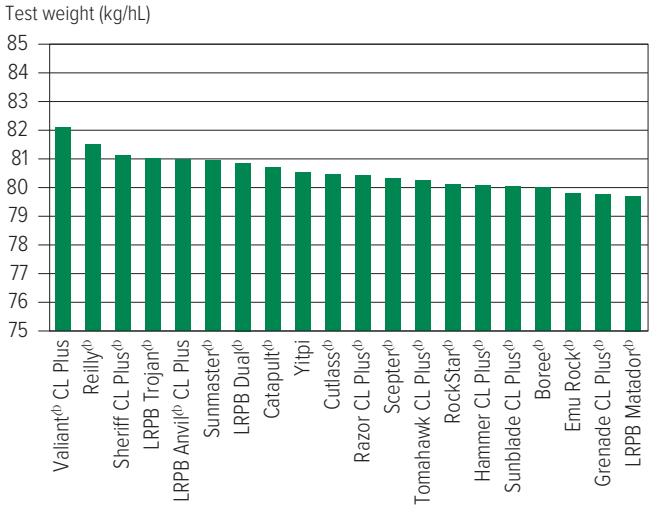


Figure 6: Test weight (kg/hL) comparisons for main season wheat varieties from eight NVT sites in Eyre Peninsula in 2023.

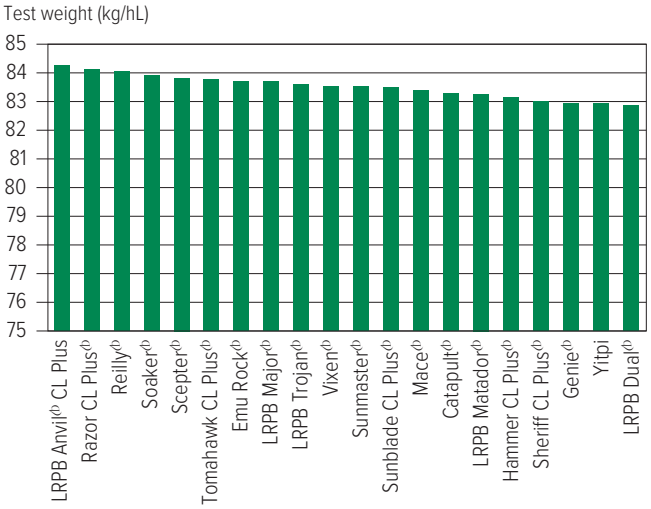


Figure 7: Test weight (kg/hL) comparisons for early season wheat varieties from one NVT site in Eyre Peninsula in 2022.

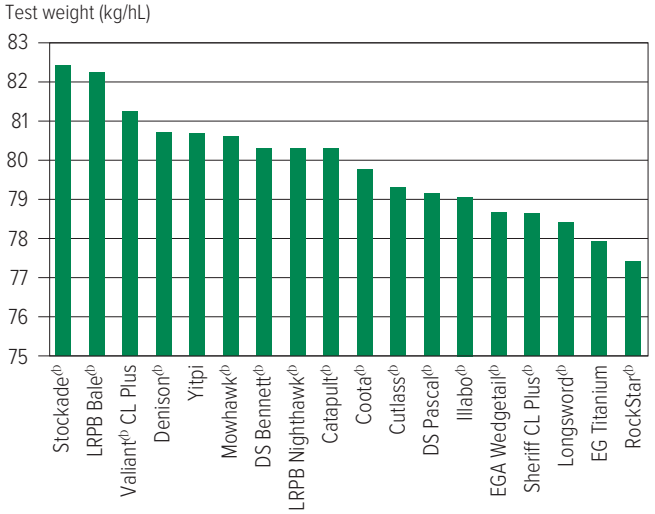
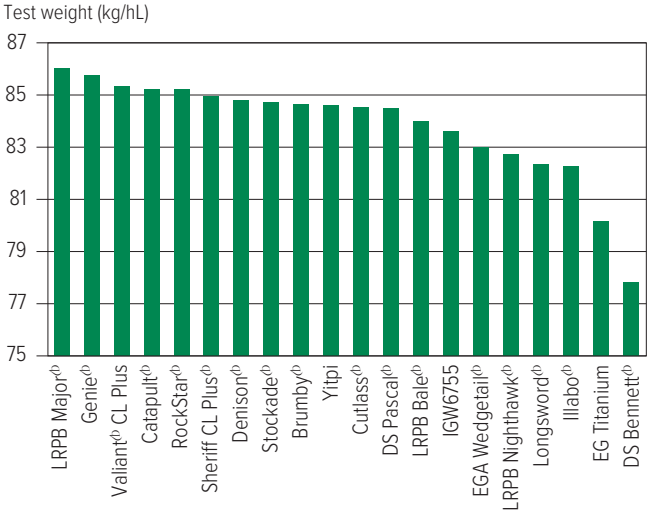


Figure 8: Test weight (kg/hL) comparisons for early season wheat varieties from one NVT site in Eyre Peninsula in 2023.



Screenings comparisons

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

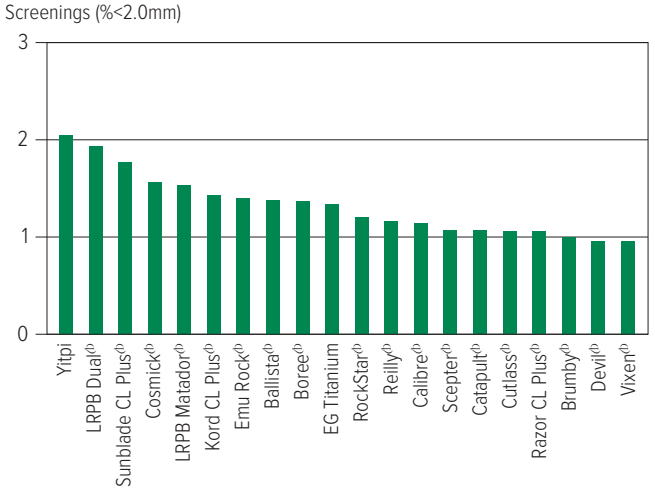


Figure 10: Screenings (<2.0mm) comparisons for main season wheat varieties from eight NVT sites in Eyre Peninsula in 2023.

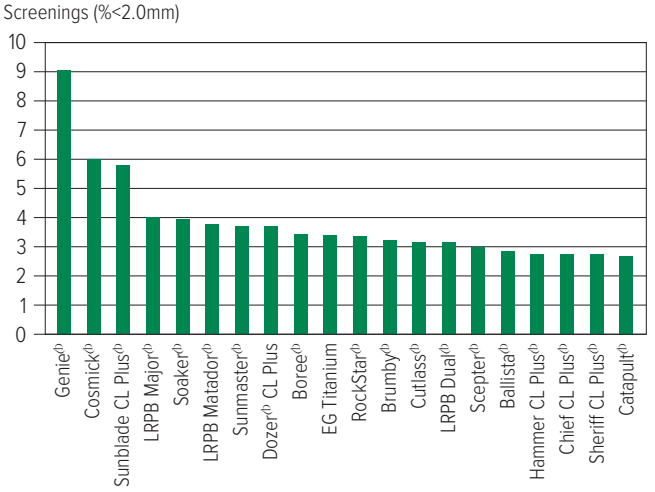


Figure 11: Screenings (<2.0mm) comparisons for early season wheat varieties from one NVT site in Eyre Peninsula in 2022.

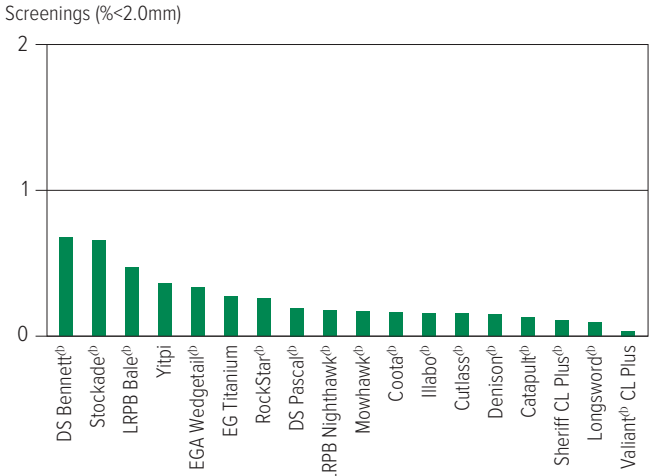
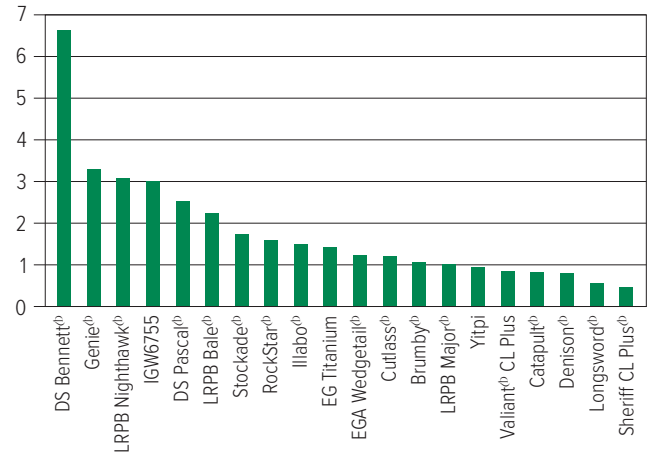


Figure 12: Screenings (<2.0mm) comparisons for early season wheat varieties from one NVT site in Eyre Peninsula in 2023.



Wheat variety disease ratings – South Australia

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

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

Table 12: Wheat disease guide for South Australia.

Variety	Stem rust	Stripe rust (east coast resistance)	Leaf rust	*Septoria tritici* blotch	Yellow leaf spot	Powdery mildew	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)	CCN	Eyespot	Crown rot	Black point
Anapurna	MSS	RMR	MS	MRMS	MRMS	RMR	MS	S (P)	MRMS		SVS	MSS
Ascot(Þ)	MRMS	MSS	RMR	S	MRMS	S	S	S	MR	S	S	S
Ballista(Þ)	MR	MSS	S	SVS	MS	SVS	S	MRMS	MRMS	S	S	MS
Beckom(Þ)	MRMS	MRMS	MSS	S	MSS	MSS	S	MSS	R		S	MRMS
BigRed(Þ)	S	RMR	MRMS	MR	MR	RMR	MS	MS	S		MSS	MR
Boree(Þ)	MR	SVS	S	SVS	MRMS	SVS	S	MSS	MSS		S	S
Borlaug 100(Þ)	MR	SVS	MR	MSS	MRMS	S	S	MS	MS	MSS (P)	MSS	MSS
Brumby(Þ)	MR	MS	SVS	S	MRMS	MR/S	MRMS	MS (P)	MRMS	S	S	MSS
Calibre(Þ)	MR	S	S	S	MRMS	MSS	S	MSS	MRMS	S	S	MSS
Catapult(Þ)	MR	S	S	MSS	MRMS	S	S	MS	R	S	MSS	S
Chief CL Plus(Þ)	MR	SVS	MR	S	MRMS	SVS	MRMS	MSS	MS	MSS	MSS	MS
Coolah(Þ)	MR	MSS	RMR	MSS	MSS	S	S	MS	S		MSS	S
Coota(Þ)	RMR	S	MR	S	MSS	S	MR	MS	MR	S	MSS	MS
Cosmick(Þ)	MS	MSS	SVS	SVS	MRMS	MSS	MSS	MSS	S		S	MRMS
Cutlass(Þ)	R	MSS	RMR	MSS	MSS	MSS	MSS	MSS	MR		S	MS
Denison(Þ)	MS	S	S	MSS	MRMS	S	S	S	MS	S	MSS	MS
Devil(Þ)	S	SVS	SVS	SVS	MRMS	S	MSS	S	MSS	S	MSS	MSS
Dozer(Þ) CL Plus	MS	S	MSS	S (P)	MS	S	MRMS	S	MS (P)	SVS (P)	S	MRMS (P)
DS Bennett(Þ)	MS	S	SVS	MSS	MRMS	R	S	S	S		VS	MSS
DS Pascal(Þ)	MSS	MRMS	MRMS#	MSS	MS	RMR	S	S	S		S	MS
EG Jet(Þ)	S	MRMS	S	MSS	MRMS	SVS	S	S	MRMS		S	MS
EG Titanium	MS	MR	MS	MSS	MSS	S	MSS	MSS	R	S	MSS	MSS
EGA Wedgetail(Þ)	MRMS	MS	MSS	MSS	MSS	MSS	S	VS	S		S	MS
Einstein	S	RMR	S	MSS	MR		MRMS	S	S		S (P)	R
Emu Rock(Þ)	MS	SVS	SVS	S	MS	MSS	MSS	S	S		MSS	MSS
Genie(Þ)	MS (P)	MRMS (P)	S (P)	S (P)	MRMS (P)	SVS (P)						
Hammer CL Plus(Þ)	MR	MS	S	MSS	MRMS	S	MSS	S	MRMS	S	MSS	MRMS
Hyperno(Þ)	RMR	MR	RMR	MSS	MRMS	MS	MS	RMR	MS		SVS	MS
IGW6755	MRMS	MSS	MS	MSS	MRMS	S	MSS	MR	MSS	MSS (P)	S	MR
Illabo(Þ)	MRMS	MRMS	S	MSS	MS	R	MSS	MSS	MRMS	S	S	MRMS
Jillaroo(Þ)	MS	MSS	S	S	MS	SVS	S	MS (P)	MS	S	S	MS
Kingston(Þ)	S	MSS	S	S	MSS	S	S	MRMS	R	S	S	MSS
Longford	RMR	RMR	RMR	MRMS/S	MRMS	RMR	S	S	MS	MSS (P)	MSS	MRMS
Longsword(Þ)	MR	MRMS/MS	MS	MS	MRMS	S	MRMS	MRMS	MRMS	S	MSS	MS
LRPB Anvil(Þ) CL Plus	MR	S	SVS	VS	MSS	SVS	MSS	S	MS	S	MSS	S
LRPB Avenger(Þ)	MS	S	S	S	MS	SVS	MSS	MRMS	MRMS	S	S	MRMS

Continued on next page

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

Variety	Stem rust	Stripe rust (east coast resistance)	Leaf rust	*Septoria tritici* blotch	Yellow leaf spot	Powdery mildew	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)	CCN	Eyespot	Crown rot	Black point
LRPB Bale[Φ]	MRMS	MRMS	MSS	MSS	SVS	MS	S	S	R	S	S	MS
LRPB Beaufort[Φ]	SVS	RMR	MSS	S	MRMS	RMR	MS	MSS	MS		S	MRMS
LRPB Dual[Φ]	MRMS	MS	MSS	MSS	S	S	MSS	MSS	R	S	S	S
LRPB Havoc[Φ]	S	MSS	S	MSS	MRMS	S	S	MSS	S		MSS	MS
LRPB Impala[Φ]	MR	MRMS	SVS	SVS	MSS	R	SVS	S	MSS		MSS	MS
LRPB Kittyhawk[Φ]	MRMS (S)	MR	MR	MRMS	MRMS	MS	S	S	S	S	SVS	MRMS
LRPB Major[Φ]	MRMS	MRMS	MR#	MSS	MS	MS	MSS	MSS	MRMS (P)	S (P)	S	MRMS (P)
LRPB Matador[Φ]	MS	MS	MSS	S (P)	MRMS	MS	S	MRMS	MS (P)	S (P)	S	MRMS (P)
LRPB Nighthawk[Φ]	RMR	MR	MSS	MS	MS	SVS	MSS	MS	MS		MSS	MS
LRPB Oryx[Φ]	MR	MS	RMR#	SVS	MSS	MR	MSS	MSS	S	S	MSS	MS
LRPB Raider[Φ]	RMR	MR	RMR	S	MSS	S	MSS	MS	S		S	MSS
LRPB Scotch[Φ]	MSS	MRMS	MR#	S	MRMS	MR	MS	S	MS	S	S	MS
LRPB Scout[Φ]	MRMS	MS	MS	S	SVS	MRMS	S	MSS	R		S	S
LRPB Trojan[Φ]	MRMS	S	MR#	S	MSS	S	MSS	MSS	MS	MS	MS	MS
Mace[Φ]	MRMS	SVS	S	SVS	MRMS	MSS	MS	MS	MRMS	S	S	MRMS
Manning[Φ]	MR	RMR	MSS	MRMS/S	MRMS	MS	MSS	S	S	MS (P)	VS	S
Naparoo[Φ]	MRMS	MRMS	MS	S	MRMS	R	SVS	S			S	
Razor CL Plus[Φ]	MRMS	MRMS	S	SVS	MSS	MSS	S	MS	MR	S	S	MS
Reilly[Φ]	MRMS	MS	MSS	S	S	MSS	MS	MSS	R	S	S	MSS
RGT Accroc[Φ]	MS	RMR	SVS	MS	MRMS	MSS	MS	MSS	S	MSS (P)	SVS	MRMS
RGT Calabro	MS	RMR	MSS	MRMS	MR	RMR	S	MS	S		SVS	MS
RGT Cesario[Φ]	RMR	RMR	RMR	MRMS	MR	RMR	MRMS	MSS	MSS (P)		VS	
RGT Waugh[Φ]	MS	RMR	S	MRMS#	MRMS	R	MSS	MSS	MS		S	MRMS
RGT Zanzibar	VS	MR	SVS	MSS	MS	RMR	S	MS (P)	MSS		S	MRMS
RockStar[Φ]	MRMS	S	S	S	MRMS	SVS	MRMS	MS	MSS	S	S	MSS
Saintly[Φ]	MS	MRMS	RMR	MRMS/S	MRMS	S	MS	RMR	MS		VS (P)	MS
Scepter[Φ]	MRMS	MSS	MSS	S	MRMS	SVS	S	MSS	MRMS	S	MSS	MS
Severn[Φ]	MS	RMR	MRMS	MSS	MRMS	RMR	S	MRMS	MSS (P)		S	MR
Sheriff CL Plus[Φ]	MS	SVS	SVS	S	MRMS	SVS	MRMS	MRMS	MS	S	S	MS
Soaker[Φ]	MR (P)	MS (P)	S (P)	S (P)	MS (P)	S (P)						
SQP Revenue[Φ]	RMR	MR	VS	MSS	MRMS	R	S	S	S	S	S	MS
Sting[Φ]	MRMS	S	SVS	SVS	MRMS	SVS	MS	MS	MS		MSS	S
Stockade[Φ]	MS	MR	MR	MS	MRMS	SVS	S	MSS	MRMS		S	MRMS
Sunblade CL Plus[Φ]	MS	MRMS	MSS	S	MSS	S	MSS	MRMS	MSS		S	MRMS
Sunflex[Φ]	MR	MRMS	RMR#	SVS	MS	S	S	MSS	MS		MSS	MSS
Sunmaster[Φ]	MS	MRMS	RMR	S	MSS	MSS	MRMS	MS	MSS		MSS	MR
Sunprime[Φ]	MS	MS	MR#	S	MSS	MSS	S	S	MS		MSS	MSS
Tomahawk CL Plus[Φ]	MR	MSS	S	S (P)	MRMS	SVS	S	MS	MRMS (P)	S (P)	S	S (P)
Valiant[Φ] CL Plus	MR	S	S	MSS	MRMS	VS	S	S (P)	MSS (P)	MSS	MSS	MS (P)
Vixen[Φ]	MRMS	SVS	SVS	S	MRMS	SVS	MRMS	MS	MSS	S	S	MSS
Willaura[Φ]	MR	S	MRMS	S	MS	SVS	MSS	MRMS	MS		S	MRMS
Yitpi	S	MS	S	S	SVS	MS	MSS	S	MR		S	MS
Zen[Φ]	S	S	S	S	MRMS	MS	MRMS	S	S		S	MRMS

Continued on next page

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

Variety	Stem rust	Stripe rust (east coast resistance)	Leaf rust	*Septoria tritici* blotch	Yellow leaf spot	Powdery mildew	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)	CCN	Eyespot	Crown rot	Black point
DURUM												
Caparoi(Ф)	MR	MS	RMR	MRMS/S	MR	S	MS	MR	MRMS (P)		VS	MSS
DBA Bindaroi(Ф)	MR	MS	MR	MS	MS	MSS	MRMS	MR	MS		SVS	MRMS
DBA Lillaroi(Ф)	RMR	MS	RMR	S	MRMS	MS	MRMS	RMR	S		SVS	MS
DBA Mataroi(Ф)	MRMS	MS	MR	MSS	MRMS	S	MS	RMR	MRMS		SVS	MS
DBA Spes	R	MS	RMR	S	MRMS	S	MRMS	RMR	MS		VS	MS
DBA Vittaroi(Ф)	MR	MS	RMR	MSS	MRMS	MS	MS	MR	S		SVS	MSS
DBA-Artemis(Ф)	MR	MRMS	RMR	MRMS/S	MRMS	SVS	MS	MR	MS		SVS	MS
DBA-Aurora(Ф)	RMR	MRMS	RMR	MRMS/S	MRMS	MSS	MRMS	RMR	MSS		SVS	MS
Jandaroi(Ф)	MRMS	MRMS	MR	MSS	MRMS	S	MS	MRMS	MS		VS	MS
Patron(Ф)	RMR	MRMS	MR#	MRMS	MRMS	MSS	MRMS	MR	S		SVS	MSS
Westcourt(Ф)	RMR	MR	RMR	S	MRMS	S	MS	MR	MSS		VS	MSS

Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible,
(P) = provisional rating, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes, ( ) show outlier.

BARLEY

New barley varieties

The following information is for barley varieties released in the 12 months to the date when the MET analysis was published on NVT online. Please go to 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]
Neo(Φ) CL	InterGrain	Under malt evaluation	4.25	Neo(Φ) CL is a mid-maturing, imidazolinone-tolerant spring barley, ideally suited to medium-high rainfall environments. Neo(Φ) CL provides an outstanding disease resistance profile with excellent resistance to cereal cyst nematode, powdery mildew and the spot form of net blotch, and useful resistance to the net form of net blotch and leaf scald. Neo(Φ) CL has a semi-prostrate early growth habit, medium plant height, good tolerance to lodging, good grain retention and tolerance to head loss, and very good levels of grain plumpness. Neo(Φ) CL has been accepted into Grains Australia's malting accreditation program with earliest potential final accreditation in March 2025.
Spinnaker(Φ)	Secobra Recherches		TBC	Released under code name SCA21-Y003.

* 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

Barley variety yield performance – Eyre Peninsula

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: Cummins main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		4.18	5.31		6.22
Neo(Ф) CL*	Compromised trial			Trial failed	125
Cyclops(Ф)		126	108		119
Minotaur(Ф)		127	104		117
Maximus(Ф) CL*		121	108		115
Laperouse(Ф)		118	103		119
Yeti(Ф)		112	106		117
Combat(Ф)			109		110
Rosalind(Ф)		116	109		107
Spartacus CL(Ф)*		111	108		105
Spinnaker(Ф)					100
La Trobe(Ф)		102	108		97
RGT Planet(Ф)		110	101		96
Beast(Ф)		86	107		105
Zena(Ф) CL*			100		95
Fandaga(Ф)			95		98
Sowing date	16 May	5 May	24 May	19 May	12 May
Rainfall J–M (mm)	3	41	54	147	33
Rainfall A–O (mm)	307	366	327	386	268

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

Table 2: Darke Peak main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.45	1.83	2.24	7.16	1.75
Neo(Ф) CL*					106
Leabrook(Ф)	131	129	133	103	121
Beast(Ф)	136	132	135	98	127
Combat(Ф)				111	120
Yeti(Ф)	131	136	136	97	122
Cyclops(Ф)		121	126	102	119
Titan AX(Ф)*			131	102	114
Compass(Ф)	130	128	134	98	120
Laperouse(Ф)	132	125	131	97	113
Commodus(Ф) CL*		124	130	97	117
Minotaur(Ф)		116	115	107	109
Maximus(Ф) CL*	129	125	125	90	122
Rosalind(Ф)	111	114	107	103	118
Fathom(Ф)	120	110	113	96	117
Spinnaker(Ф)				112	101
Sowing date	16 May	19 May	1 Jun	26 May	26 May
Rainfall J–M (mm)	6	89	51	215	41
Rainfall A–O (mm)	190	273	227	315	191

Special thanks to 2023 trial cooperator, DM Kenny Nominees.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 3: Elliston main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	3.65	2.22	4.35	6.85	3.74
Neo(Ф) CL*					112
Rosalind(Ф)	107	116	105	112	111
Combat(Ф)				109	109
Yeti(Ф)	107	116	111	102	108
Spinnaker(Ф)				115	106
Cyclops(Ф)		108	111	104	104
Minotaur(Ф)		105	108	109	103
Beast(Ф)	111	119	108	95	111
Leabrook(Ф)	111	114	106	96	110
RGT Planet(Ф)	100	100	95	116	104
Maximus(Ф) CL*	103	113	110	100	105
Zena(Ф) CL*				114	103
Compass(Ф)	110	114	105	90	109
Fathom(Ф)	106	110	103	96	106
Laperouse(Ф)	103	105	111	97	100
Sowing date	14 May	12 May	28 May	11 May	16 May
Rainfall J–M (mm)	3	19	64	60	17
Rainfall A–O (mm)	282	310	269	398	298

Special thanks to 2023 trial cooperator, NM & DS May.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 4: Minnipa main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.93	2.20	3.07	4.56	1.86
Neo(Ф) CL*					108
Yeti(Ф)	122	107	116	106	112
Combat(Ф)				110	112
Rosalind(Ф)	120	107	113	104	113
Beast(Ф)	126	110	118	94	118
Cyclops(Ф)		105	109	111	108
Leabrook(Ф)	120	110	115	99	115
Minotaur(Ф)		104	106	117	104
Maximus(Ф) CL*	120	104	112	99	110
Laperouse(Ф)	110	102	107	108	103
Compass(Ф)	119	109	114	90	114
Spinnaker(Ф)				110	104
Titan AX(Ф)			107	99	108
Commodus(Ф) CL*		107	111	90	111
Fathom(Ф)	115	105	109	90	111
Sowing date	8 May	12 May	27 May	5 May	23 May
Rainfall J–M (mm)	5	77	44	89	38
Rainfall A–O (mm)	216	218	210	300	168

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

Table 5: Piednippie main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.90		3.17	4.93	1.88
Neo(Ð) CL*		Compromised trial			105
Combat(Ð)				111	115
Rosalind(Ð)	107		108	109	111
Cyclops(Ð)			113	106	110
Spinnaker(Ð)				116	102
Minotaur(Ð)			109	112	104
Beast(Ð)	114		111	92	119
RGT Planet(Ð)	98		99	117	97
Leabrook(Ð)	112		110	94	117
Yeti(Ð)	105		109	99	111
Zena(Ð) CL*				114	96
Maximus(Ð) CL*	104		107	97	109
Fathom(Ð)	111		105	93	112
Titan AX(Ð)*			109	92	112
Laperouse(Ð)	99		108	99	105
Sowing date	**7 May**	**18 May**	**26 May**	**6 May**	**19 May**
Rainfall J–M (mm)	**7**	**31**	**67**	**144**	**16**
Rainfall A–O (mm)	**273**	**240**	**289**	**384**	**195**

Special thanks to 2023 trial cooperator, Hollitt Pastoral Pty Ltd.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 6: Wanilla main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		4.57	5.46	5.88	5.80
Neo(Ð) CL*	Trial failed				116
Combat(Ð)			112	111	114
Minotaur(Ð)		119	105	109	111
Cyclops(Ð)		116	106	106	115
Rosalind(Ð)		113	105	107	112
Spinnaker(Ð)				111	104
RGT Planet(Ð)		108	108	110	100
Yeti(Ð)		113	97	102	113
Maximus(Ð) CL*		115	98	98	113
Laperouse(Ð)		113	98	100	110
Zena(Ð) CL*			106	108	99
Fandaga(Ð)			106	108	96
Spartacus CL(Ð)*		106	99	96	108
La Trobe(Ð)		97	103	96	106
Beast(Ð)		95	97	99	109
Sowing date	**16 May**	**12 May**	**24 May**	**16 May**	**17 May**
Rainfall J–M (mm)	**5**	**62**	**55**	**139**	**52**
Rainfall A–O (mm)	**346**	**397**	**450**	**470**	**329**

Special thanks to 2023 trial cooperator, GS & KS Charlton.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 7: Wharminda main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.12	1.39		5.76	2.08
Combat(Ð)			Compromised trial	110	132
Titan AX(Ð)*				99	141
Leabrook(Ð)	141	117		100	128
Neo(Ð) CL*					108
Compass(Ð)	150	118		96	125
Beast(Ð)	150	114		98	119
Cyclops(Ð)		105		104	124
Commodus(Ð) CL*		116		95	122
Minotaur(Ð)		105		106	111
Yeti(Ð)	127	115		99	105
Laperouse(Ð)	109	113		98	117
Fathom(Ð)	133	101		98	109
Commander(Ð)	91	107		95	130
Rosalind(Ð)	117	97		106	90
Spinnaker(Ð)				110	94
Sowing date	**16 May**	**19 Jun**	**28 May**	**13 May**	**11 May**
Rainfall J–M (mm)	**5**	**40**	**53**	**141**	**23**
Rainfall A–O (mm)	**180**	**247**	**228**	**282**	**192**

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

Barley variety quality – Eyre Peninsula

Grain quality for individual varieties varies from site to site and from year to year. However, long-term and across-site trends highlight varieties that can consistently achieve high protein percentage, high test weight or low grain screenings under a wider range of environments.

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

Protein and yield comparisons

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

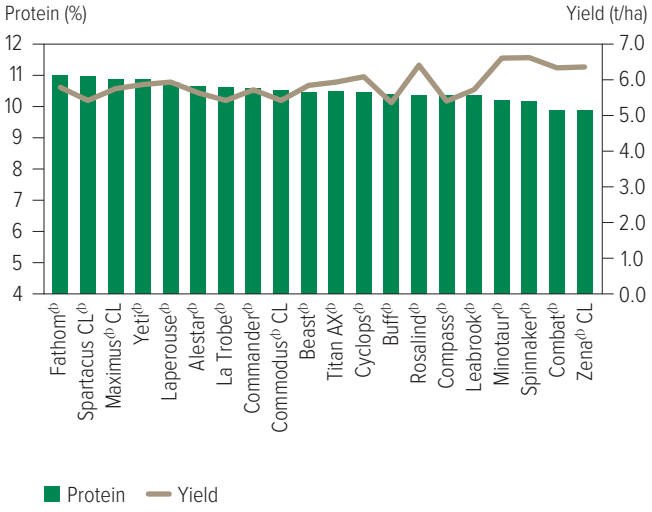
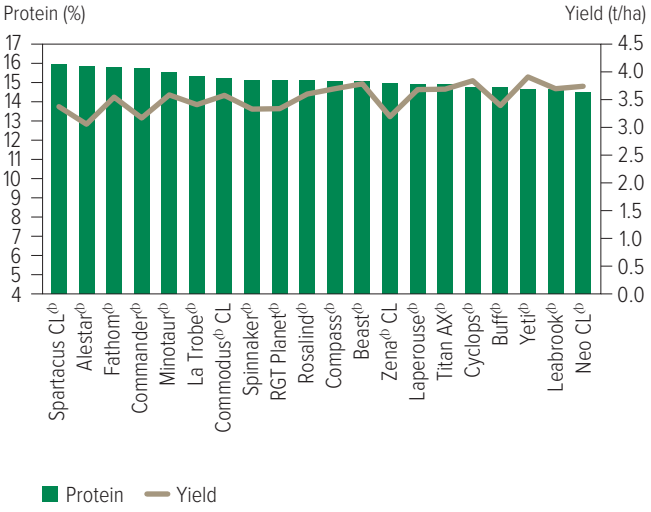


Figure 2: Protein (%) and yield (t/ha) comparisons for main season barley varieties from seven NVT sites in Eyre Peninsula in 2023.



Test weight comparisons

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

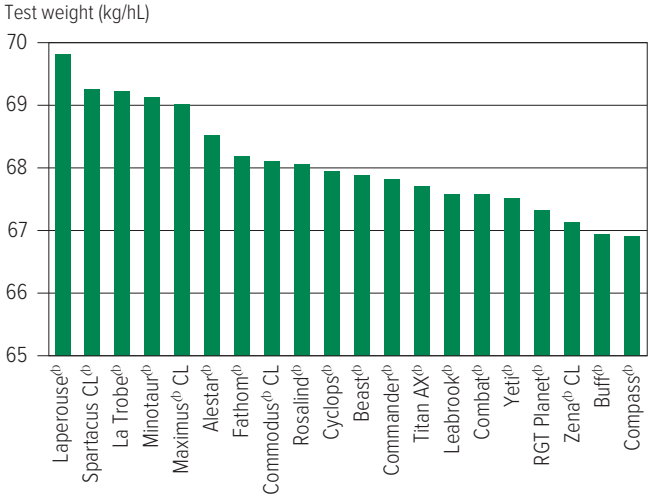
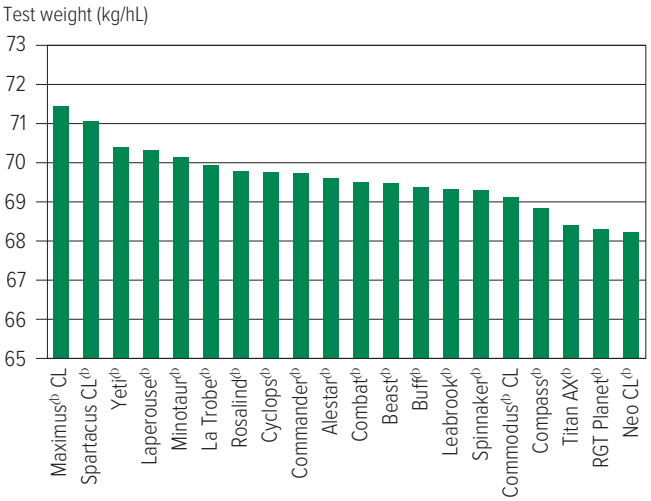


Figure 4: Test weight (kg/hL) comparisons for main season barley varieties from seven NVT sites in Eyre Peninsula in 2023.



Screenings comparisons

Figure 5: Screenings (<2.2mm) comparisons for main season barley varieties from six NVT sites in Eyre Peninsula in 2022.

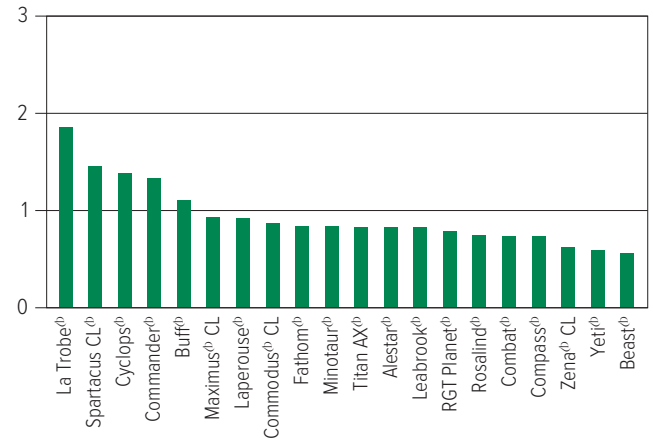
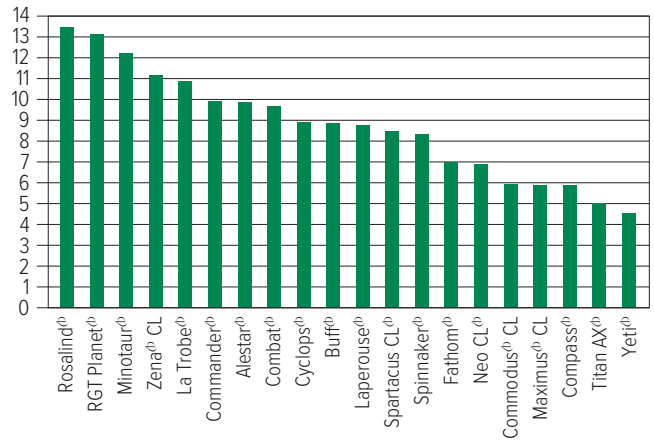


Figure 6: Screenings (<2.2mm) comparisons for main season barley varieties from seven NVT sites in Eyre Peninsula in 2023.



Retention comparisons

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

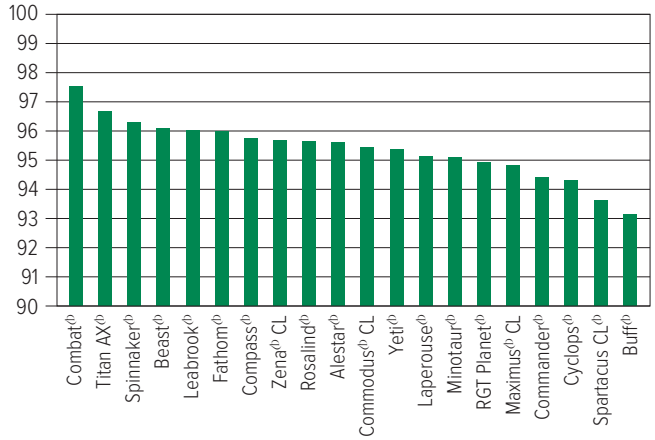
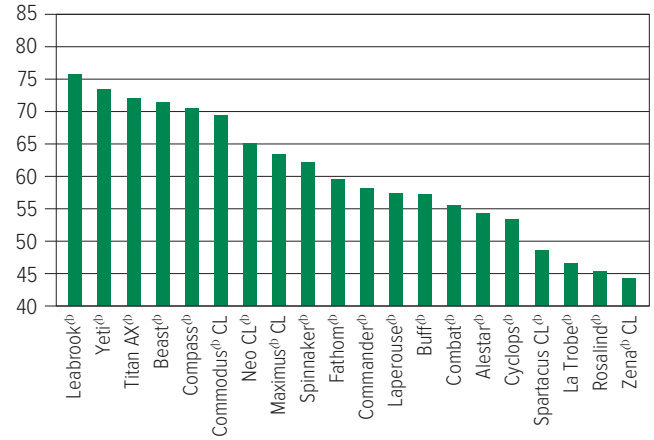


Figure 8: Retention (>2.5mm) comparisons for main season barley varieties from seven NVT sites in Eyre Peninsula in 2023.



Barley variety disease ratings – South Australia

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

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

Table 8: Barley disease guide for South Australia.

Variety	Leaf rust	Net form net blotch	Spot form net blotch	Leaf scald	Ramularia	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)	CCN	Crown rot	Black point	Powdery mildew
Alestar(ф)	MSS	MRMS-S	S	SVS	SVS	MR	MR	R^ (P)	S	MRMS	MR
Banks(ф)	MRMS	MR	S	MS-SVS	VS	MS	MR	S	MSS	MS	MS
Bass(ф)	S	MS-SVS	MSS	MSS	VS	MS	MRMS	S	MSS	MRMS	S
Beast(ф)	MS	MRMS-S	MS	SVS	SVS	MRMS	MRMS	MR	S	MSS	S
Bottler(ф)	MSS	R-MS	MSS	SVS	SVS	MS	RMR		SVS	MRMS	RMR
Buff(ф)	SVS	MR-MS	MSS	MS-VS	SVS	MRMS	MS		S	MS	S
Combat(ф)	SVS	MRMS-S	RMR	MS-S	SVS	MRMS	MS	MR	S	MSS	MS
Commander(ф)	MSS	S-VS	MSS	SVS	SVS	MRMS	MRMS	R	S	MSS	MSS
Commodus(ф) CL	S	MRMS-MSS	MSS	MSS-SVS	SVS	MRMS	MRMS	R	S	MS	MSS
Compass(ф)	S	MRMS-S	MS	MSS-SVS	SVS	MRMS	MR	R	MSS	MSS	S
Cyclops(ф)	S	MR-MS	MSS	S	SVS	MRMS	MRMS	S	MSS	MSS	SVS
Fairview(ф)	S	SVS	S	SVS	SVS	MR	MR		MSS	MS	R
Fandaga(ф)	MSS	MRMS#	S	SVS	VS	MR	MR	R	MSS	MRMS	R
Fathom(ф)	MSS	MSS-SVS	RMR	R-S	SVS	MRMS	MR	R	SVS	MSS	MRMS
Flinders(ф)	S	MSS	S	MSS-SVS	SVS	MRMS	MR	S	MSS	MRMS	RMR
Keel	S	MS-SVS	MR	MS-SVS	SVS	MS	MRMS	R	S	MSS	S
Kiwi	MSS	MRMS	MSS	SVS	VS	MRMS	RMR	S	MSS	MS	RMR
La Trobe(ф)	S	MS-S	S	R-SVS	SVS	MRMS	MRMS	R	S	MSS	MSS
Laperouse(ф)	S	MRMS	MRMS	SVS	VS	MRMS	MR	S	S	MSS	MSS
Leabrook(ф)	S	MR-MSS	MS	MRMS-SVS	VS	MRMS	RMR	RMR	S	MS	S
Litmus(ф)	S	S-VS	S	VS	VS	MS	MRMS	MS	S	MS	MS
Maximus(ф) CL	S	MR-MS	MS	R-SVS	VS	MRMS	MRMS	R	S	MSS	S
Minotaur(ф)	SVS	MR-MS	S	VS	SVS	MRMS	MRMS	R	MSS	MRMS	S
Neo(ф) CL	MSS (P)	MS (P)	MR (P)	S (P)	SVS (P)	RMR (P)	MR (P)	R		MRMS (P)	RMR (P)
RGT Planet(ф)	S	MRMS-SVS	SVS	R-SVS	SVS	MRMS	MR	R (P)	MSS	MRMS	RMR
Rosalind(ф)	MSS	MRMS	S	MR-S	VS	MRMS	MRMS	R	S	MS	MSS
SakuraStar	MSS	S	MS	MS-SVS	SVS	MR	MR	R	S	MS	MSS
Scope CL(ф)	S	R-MR	MSS	MRMS-SVS	SVS	MRMS	MRMS	S	S	MS	MRMS
Spartacus CL(ф)	MSS	MS-VS	S	R-SVS	VS	MRMS	MRMS	R	S	MSS	MSS
Spinnaker(ф)	S	SVS	SVS	S	VS	MR	MS	S	S	MRMS	RMR
Titan AX(ф)	SVS	MRMS-S	MS	VS	VS	MR	MR	MR (P)	S	MSS	MSS
Topstart	S	MRMS-SVS	S	S	SVS	RMR	RMR	S	MSS	MRMS	RMR
Urambie	S	R-MR	S	R-S	VS	MRMS	MR		MSS	MRMS	MS
Westminster(ф)	MS	MRMS	S	R-S	SVS	MRMS	MS		MSS	MRMS	RMR
Yeti(ф)	SVS	MR-MS	MS	VS	VS	MR	MR	RMR	S	MSS	S
Zena(ф) CL	S	MR-S	S	R-S	VS	MRMS	MR	R	S	MRMS (P)	RMR

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

OAT

Oat variety yield performance – Eyre Peninsula

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: Nunjikompita oat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		**1.07**		**2.56**	
Koala[Ф]	No trial	101	Compromised trial	143	Trial failed
Bannister[Ф]		100		123	
13008-18				118	
Williams[Ф]		100		108	
Koorabup[Ф]		99		100	
Yallara[Ф]		99		97	
Possum		100		94	
Bilby[Ф]		100		90	
Kowari[Ф]		100		82	
Mitika[Ф]		100		80	
Sowing date		**19 May**	**7 Jun**	**10 May**	**18 May**
Rainfall J–M (mm)		**46**	**44**	**88**	**29**
Rainfall A–O (mm)		**256**	**183**	**253**	**154**

Special thanks to 2023 trial cooperator, Craig Rule.
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

Oat variety disease ratings – South Australia

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

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

Table 2: Oat disease guide for South Australia.

Variety	Stem rust (east)	Leaf rust (crown rust)	Barley yellow dwarf virus (BYDV)	CCN	Stem nematode resistance	Stem nematode tolerance	Septoria	Bacterial blight	Red leather leaf
Archer[Φ]	MSS	R/S (P)	MSS (P)		VS (P)	I (P)	MRMS (P)	MSS (P)	SVS (P)
Bannister[Φ]	S	MSS	MS	MR	MRMS	MT	MSS	S	MSS-SVS
Bilby[Φ]	S	MSS	S	S	S	MI	S	SVS	MS
Brusher[Φ]	SVS	MR	S	MR	S	MT	MSS	SVS	MS
Carrolup	S	S	SVS	VS	S	I	MSS	MSS	SVS
Durack[Φ]	S	S	S	MRMS	S	MT	S	S	SVS
Echidna	S	SVS	MSS	MS	MRMS	MT	SVS	S	MSS
Goldie[Φ]	SVS	SVS	MS	MR	S	I	MS	S	SVS
Kingbale[Φ]	MSS	S	MS	R	MR	MT	MSS	MSS (P)	S (P)
Koala[Φ]	MS	MSS	MSS	R	MS	MT	MSS	S	S
Kojonup[Φ]	S	S	MS	VS	MS	MT	MSS	SVS	S
Kowari[Φ]	S	SVS	S	S	S	I	S	S	S
Kultarr[Φ]	SVS (P)	MR (P)	MSS (P)		S (P)	MI (P)	MS (P)	MS (P)	S (P)
Mitika[Φ]	S	S	SVS	VS	S	MT	SVS	S	SVS
Mulgara[Φ]	S	MR	MSS	R	MR	MT	S/MS	MSS	SVS
Tungoo[Φ]	S	MR	MSS	MR	R	MT	MRMS#	S	MRMS
Wallaby[Φ]	SVS (P)	MR (P)	MS (P)		S (P)	MI (P)	MS (P)	MSS (P)	SVS (P)
Wandering	SVS	SVS	MSS	VS	S	MT	MSS	S	S
Williams[Φ]	S	MRMS	MSS	S	S	MI	MSS	MSS	MS
Wintaroo	S	S	MS	R	MR	MT	MS#	S	S
Yallara[Φ]	S	S	S	R	MS	MI	MSS	S	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.

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 Avon TT(ф)	Nutrien Ag Solutions Ltd	5.50	Early, determinant, short TT open-pollinated variety suited to low-medium rainfall zones.
DG Drummond TF	Nutrien Ag Solutions Ltd	N/A	DG Drummond TF is a tall, mid-late maturing, glyphosate-tolerant hybrid with group H blackleg resistance. DG Drummond TF is suited to medium to high-rainfall areas.
Hyola® Continuum CL	Advanta Seeds	N/A	An early-mid maturity Clearfield® hybrid, Continuum CL provides wide environmental adaptability with excellent grain oil potential. It exhibits strong yields in target environments and demonstrates excellent adaptability to growing regions with a range of 1.5 to 5.5t/ha. Continuum CL showcases an exceptionally high level of early plant vigour, high lodging resistance and an outstanding blackleg rating of 'R' due to its distinctive tri-group resistance, ADF.
Hyola® Defender CT	Advanta Seeds	N/A	A mid-season maturity CT hybrid, Defender CT delivers remarkable grain yield, robust plant vigour and a very high grain oil content. Defender CT performance is closely aligned with the renowned Hyola® Blazer TT variety. Defender CT offers uniform flowering, manageable height for direct harvesting and an exceptional blackleg rating of 'R-MR' due to its distinctive tri-group resistance, ADF.
InVigor® LR 4540P	BASF Australia Ltd	N/A	New LibertyLink® hybrid with tolerance to both Liberty® and TruFlex®. Combines two herbicide tolerances with the flexibility of PodGuard® for shatter tolerance. Early-mid maturing variety suited to low and medium-rainfall zones. Marketed by BASF.
Nuseed® Ceres IMI	Nuseed	N/A	Nuseed® Ceres IMI is Nuseed®'s first release in this popular herbicide technology. It has demonstrated competitive yield and excellent oil during trials, and exhibits strong early vigour and good early biomass. Suited to quick canola growing regions, Nuseed® Ceres IMI comes with good blackleg resistance and harvestability.
PY323G	Pioneer Hi-Bred Aust	N/A	Pioneer® PY323G is an early maturing Optimum GLY® hybrid variety. Suited to early-mid and mid-season growing regions. Mid-fast phenology. Medium height. Blackleg resistance rating NA, resistance group NA. Tested in NVT trials 2023. Marketed by Pioneer Seeds.
PY421C	Pioneer Hi-Bred Aust	N/A	Pioneer® PY421C is an early to mid-maturing hybrid with exceptional yield for maturity and widely adapted. Blackleg rating of 'R-MR', resistance group A. Marketed by Pioneer Seeds.
PY422G	Pioneer Hi-Bred Aust	N/A	Pioneer® PY422G is an early-mid maturing Optimum GLY® hybrid variety. Suited to early-mid and mid-season growing regions. Mid-fast phenology. Medium height. Blackleg resistance rating NA, resistance group NA. Tested in NVT trials 2023. Marketed by Pioneer Seeds.
PY424GC	Pioneer Hi-Bred Aust	N/A	Variety description not supplied.
PY525G	Pioneer Hi-Bred Aust	N/A	Pioneer® PY525G is a mid-maturing Optimum GLY® hybrid variety. Suited to mid-season growing regions. Mid-phenology. Medium-tall height. Blackleg resistance rating NA, resistance group NA. Tested in NVT trials 2023. Marketed by Pioneer Seeds.

* EPR amount is ex-GST, (ф) 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

Canola variety yield performance – Eyre Peninsula

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: Yeelanna med-high rainfall GLY.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)			1.97		3.83
InVigor® LR 4540P	No trial	No trial		Compromised trial	114
Nuseed® Hunter TF					111
Nuseed® Emu TF			121		108
Pioneer® 44Y27 (RR)			116		108
PY323G					108
InVigor® R 4520P			112		110
Pioneer® 44Y30 RR			113		108
Nuseed® Raptor TF			110		104
InVigor® R 4022P			107		104
Hyola® Regiment XC			110		102
Sowing date			**24 May**	**2 May**	**27 Apr**
Rainfall J–M (mm)			**62**	**173**	**36**
Rainfall A–O (mm)			**339**	**382**	**288**

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

Table 2: Lock low-med rainfall GLY.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)				4.23	
InVigor® LR 4540P	No trial	No trial	Compromised trial	111	Compromised trial
Nuseed® Hunter TF				110	
InVigor® R 4520P				109	
Pioneer® 44Y27 (RR)				107	
Pioneer® 44Y30 RR				105	
Nuseed® Raptor TF				105	
InVigor® R 4022P				104	
DG Lofty TF				97	
Hyola® Battalion XC				96	
Nuseed® Emu TF				94	
Sowing date			**24 May**	**6 May**	**1 May**
Rainfall J–M (mm)			**45**	**116**	**36**
Rainfall A–O (mm)			**233**	**331**	**216**

Special thanks to 2023 trial cooperator, CJ Kay & Sons.
Learn more via the NVT Long Term Yield Reporter

Table 3: Mt Hope med-high rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		2.13	1.98	2.88	3.30
PY421C	No trial			128	112
Pioneer® 44Y94 CL		112	118	122	112
Pioneer® 45Y95 (CL)			112	115	111
Hyola® Continuum CL				111	107
Pioneer® 45Y93 CL		109			102
Hyola® Solstice CL			116	93	111
Pioneer® 43Y92 (CL)					104
Hyola® Equinox CL		100	108	88	
VICTORY® V75-03CL					93
PY520TC					92
Sowing date		**3 May**	**24 May**	**2 May**	**28 Apr**
Rainfall J–M (mm)		**23**	**64**	**110**	**37**
Rainfall A–O (mm)		**327**	**435**	**395**	**317**

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

Table 4: Yeelanna med-high rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.66	1.72	1.77		3.60
PY421C				Compromised trial	116
Hyola® Solstice CL			129		111
Pioneer® 44Y94 CL	110	112	121		115
Pioneer® 45Y95 (CL)	112		116		112
Nuseed® Ceres IMI			125		
Hyola® Continuum CL					108
Pioneer® 43Y92 (CL)					105
Pioneer® 45Y93 CL	109	104			102
VICTORY® V75-03CL	90				91
PY520TC					88
Sowing date	**7 May**	**4 May**	**24 May**	**2 May**	**27 Apr**
Rainfall J–M (mm)	**6**	**41**	**62**	**173**	**36**
Rainfall A–O (mm)	**346**	**330**	**339**	**382**	**288**

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

Table 5: Lock low-med rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.37	1.38		4.50	
Pioneer® 44Y94 CL			Compromised trial	110	Compromised trial
Pioneer® 44Y90 (CL)	112	105			
Saintly CL	80				
Hyola® Continuum CL				96	
Nuseed® Ceres IMI				93	
Pioneer® 43Y92 (CL)	90	94		98	
Hyola® 575CL	107				
VICTORY® V7002CL	66				
Hyola® Equinox CL				88	
Sowing date	**7 May**	**30 Apr**	**24 May**	**6 May**	**1 May**
Rainfall J–M (mm)	**3**	**45**	**45**	**116**	**36**
Rainfall A–O (mm)	**198**	**252**	**233**	**331**	**216**

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

Table 6: Minnipa low-med rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.07		1.41	1.52	1.05
PY421C		Trial results below standard			114
Pioneer® 44Y94 CL				113	100
Pioneer® 44Y90 (CL)	108				
Hyola® Continuum CL				102	102
Hyola® 575CL	96				
Hyola® Equinox CL				93	
Pioneer® 43Y92 (CL)	100		102	99	94
Saintly CL	103				
Nuseed® Ceres IMI				94	113
Hyola® Solstice CL					96
Sowing date	**2 May**	**8 May**	**24 May**	**22 Apr**	**28 Apr**
Rainfall J–M (mm)	**5**	**77**	**44**	**89**	**38**
Rainfall A–O (mm)	**216**	**218**	**210**	**300**	**166**

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

Table 7: Mt Hope med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		2.15	1.81	2.72	3.18
Renegade TT(ϕ)	No trial		98	124	98
Hyola® Blazer TT		109	114	117	111
InVigor® T 4510		114	116	114	108
InVigor® LT 4530P				115	102
HyTTec® Trophy		104	120	112	112
HyTTec® Trifecta		107	114	111	112
RGT Capacity TT			103	113	104
Hyola® Defender CT				118	107
InVigor® T 4511			112	109	107
PY520TC			109	113	108
Sowing date		**3 May**	**24 May**	**2 May**	**28 Apr**
Rainfall J–M (mm)		**23**	**64**	**110**	**37**
Rainfall A–O (mm)		**327**	**435**	**395**	**317**

Special thanks to 2023 trial cooperator, JM & EJ Doudle.
Learn more via the NVT Long Term Yield Reporter

Table 8: Yeelanna med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.42	1.82	2.21		3.20
HyTTec® Trifecta	113	114	116	Compromised trial	113
HyTTec® Trophy	108	110	119		115
Hyola® Blazer TT		111	113		113
InVigor® T 4510	107	111	116		112
InVigor® T 4511			113		110
PY520TC			108		109
InVigor® LT 4530P			108		107
RGT Capacity TT			104		106
Hyola® Defender CT					109
Renegade TT(ϕ)					104
Sowing date	**6 May**	**4 May**	**24 May**	**2 May**	**27 Apr**
Rainfall J–M (mm)	**6**	**41**	**62**	**173**	**36**
Rainfall A–O (mm)	**346**	**330**	**339**	**382**	**288**

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

Table 9: Lock low-med rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.28	1.20		3.80	
InVigor® LT 4530P			Compromised trial	115	Compromised trial
HyTTec® Velocity				107	
HyTTec® Trident	94	128		114	
InVigor® T 4510	102	120		112	
Renegade TT(ϕ)				105	
Hyola® Defender CT				107	
HyTTec® Trophy	100	118		109	
RGT Capacity TT				99	
InVigor® T 4511				104	
SF Spark TT	93	105		100	
Sowing date	**7 May**	**30 Apr**	**24 May**	**6 May**	**1 May**
Rainfall J–M (mm)	**3**	**45**	**45**	**116**	**36**
Rainfall A–O (mm)	**198**	**252**	**233**	**331**	**216**

Special thanks to 2023 trial cooperator, CJ Kay & Sons.
Learn more via the NVT Long Term Yield Reporter

Table 10: Minnipa low-med rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.11		1.09	1.56	0.79
Hyola® Blazer TT		Trial failed			108
Hyola® Defender CT				112	102
HyTTec® Velocity				104	132
HyTTec® Trident			115	105	110
HyTTec® Trophy	104		113	106	107
InVigor® LT 4530P				110	100
InVigor® T 4510	104		105	105	107
Renegade TT(ϕ)			94	109	107
RGT Capacity TT				101	110
Hyola® Enforcer CT	103			103	92
Sowing date	**2 May**	**8 May**	**24 May**	**22 Apr**	**28 Apr**
Rainfall J–M (mm)	**5**	**77**	**44**	**89**	**38**
Rainfall A–O (mm)	**216**	**218**	**210**	**300**	**166**

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

Australian canola variety disease ratings

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

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

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

Table 11: Canola disease guide – 2024 autumn blackleg ratings and resistance groups.

Variety	2024 Blackleg rating Bare	2024 Blackleg rating InVigor®	2024 Blackleg rating Saltro®	Type	*Section A* – resistance group of cultivar	*Section B* – resistance group of previous year's cultivar (stubble)																			
						A	B	C	AB	AC	AD	ABC	ABD	ABF	ABS	ABDF	ABDS	ADF	BF	BC	H	AH	ACH	ABH	ADFH
CONVENTIONAL VARIETIES																									
Outlaw(Φ)	RMR			Open pollinated	A																				
Nuseed® Quartz	RMR			Hybrid	ABD																				
Nuseed® Diamond	RMR	R	R	Hybrid	ABF																				
TRIAZINE-TOLERANT VARIETIES																									
HyTTec® Trifecta	R			Hybrid	ABD																				
HyTTec® Trident	R			Hybrid	AD																				
Monola® H524TT	R			High stability oil, hybrid	AD																				
DG Bidgee TT(Φ)	R	R	R	Open pollinated	H																				
HyTTec® Trophy	R	R	R	Hybrid	AD																				
DG Torrens TT(Φ)	RMR			Open pollinated	H																				
Hyola® Blazer TT	RMR		R	Hybrid	ADF																				
InVigor® T 4511	RMR	R		Hybrid	Different blackleg resistance pattern, further testing required. Effective rotation with existing groups currently unknown																				
Monola® H421TT	RMR			High stability oil, hybrid	BC																				
ATR-Bluefin(Φ)	RMR			Open pollinated	AB																				
DG Avon TT(Φ)	MR	R	R	Open pollinated	AC																				
SF Spark™ TT	MR	R	R	Hybrid	ABDS																				
InVigor® T 4510	MR	R	R	Hybrid	BF																				
Renegade TT(Φ)	MR			Open pollinated	A																				
HyTTec® Velocity	MR			Hybrid	AB																				
Monola® 422TT	MRMS			Open pollinated	BC																				
ATR-Swordfish(Φ)	MRMS			Open pollinated	AB																				
SF Dynatron™ TT	MRMS	R	R	Hybrid	BC																				
RGT Baseline™ TT	MRMS	R	R	Hybrid	B																				
Bandit TT(Φ)	MRMS	R	R	Open pollinated	A																				
RGT Capacity™ TT	MRMS	RMR	R	Hybrid	B																				
AFP Cutubury(Φ)	MS	MR	RMR	Open pollinated	AB																				
ATR-Bonito(Φ)	MS	RMR	R	Open pollinated	A																				

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Table 11: Canola disease guide – 2024 autumn blackleg ratings and resistance groups (continued).

Variety	2024 Blackleg rating Bare	2024 Blackleg rating ILeVo®	2024 Blackleg rating Saltro®	Type	*Section A* – resistance group of cultivar	*Section B* – resistance group of previous year's cultivar (stubble)																		
						A	B	C	AB	AC	AD	ABC	ABD	ABF	ABS	ABDF	ABDS	ADF	BF	BC	H	AH	ACH	ABH	ADFH
IMIDAZOLINONE-TOLERANT VARIETIES																								
Hyola® Continuum CL	R		R	Hybrid, Clearfield®	ADF																			
Hyola® Solstice CL	R		R	Hybrid, Clearfield®	ADFH																			
Captain CL	R			Winter, hybrid, Clearfield®	AH																			
Hyola® Feast CL	R		R	Winter, hybrid, Clearfield®	H																			
RGT Nizza™ CL	R			Winter, hybrid, Clearfield®	B																			
Hyola® 970CL	R		R	Winter, hybrid, Clearfield®	H																			
Phoenix CL	R			Winter, hybrid, Clearfield®	B																			
Pioneer® 45Y93 CL	R		R	Hybrid, Clearfield®	BC																			
RGT Clavier™ CL	R			Winter, hybrid, Clearfield®	ACH																			
Pioneer® PN526C	RMR			High stability oil, Hybrid, Clearfield®	ABD																			
Pioneer® 45Y95 CL	RMR		R	Hybrid, Clearfield®	C																			
Nuseed® Ceres IMI	RMR			Hybrid	AD																			
Pioneer® 43Y92 CL	RMR		R	Hybrid, Clearfield®	B																			
Pioneer® 44Y94 CL	RMR		R	Hybrid, Clearfield®	BC																			
Pioneer® PY421C	RMR		R	Hybrid, Clearfield®	A																			
VICTORY® V75-03CL	RMR			High stability oil, hybrid, Clearfield®	AB																			
IMIDAZOLINONE AND TRIAZINE-TOLERANT VARIETIES																								
Hyola® Defender CT	R		R	Hybrid, Clearfield®, Triazine	ADF																			
Hyola® Enforcer CT	R			Hybrid, Clearfield®, Triazine	ADF																			
Pioneer® PY520 TC	MR		R	Hybrid, Clearfield®, Triazine	BC																			
GLYPHOSATE-TOLERANT VARIETIES																								
DG Hotham TF	R			Hybrid, TruFlex®	ABH																			
Nuseed® Raptor TF	R			Hybrid, TruFlex®	AD																			
Nuseed® Eagle TF	R			Hybrid, TruFlex®	ABD																			
VICTORY® V55-04TF	R		R	High stability oil, hybrid, TruFlex®	AB																			
DG Lofty TF	R			Hybrid, TruFlex®	ABH																			
Nuseed® Hunter TF	RMR			Hybrid, TruFlex®	AB																			
Pioneer® 45Y28 RR	RMR		R	Hybrid, Roundup Ready®	BC																			
Pioneer® 44Y27 RR	RMR		R	Hybrid, Roundup Ready®	B																			
Pioneer® 44Y30 RR	RMR		R	Hybrid, Roundup Ready®	AB																			
Pioneer® PY422G	MR		R	Hybrid, Optimum GLY®	AB																			
Nuseed® Emu TF	MR			Hybrid, TruFlex®	AB																			
Pioneer® PY525G	MR		R	Hybrid, Optimum GLY®	AB																			

Continued on next page

Table 11: Canola disease guide – 2024 autumn blackleg ratings and resistance groups (continued).

Variety	2024 Blackleg rating Bare	2024 Blackleg rating ILeVo®	2024 Blackleg rating Saltro®	Type	*Section A* – resistance group of cultivar	*Section B* – resistance group of previous year's cultivar (stubble)																		
						A	B	C	AB	AC	AD	ABC	ABD	ABF	ABS	ABDF	ABDS	ADF	BF	BC	H	AH	ACH	ABH	ADFH
GLYPHOSATE-TOLERANT VARIETIES																								
InVigor® R 4022P	MRMS	R		Hybrid, TruFlex®	ABC																			
InVigor® R 4520P	MRMS	R		Hybrid, Truflex®	B																			
Pioneer® PY323G	MRMS		R	Hybrid, Optimum GLY®	BC																			
GLYPHOSATE AND IMIDAZOLINONE-TOLERANT VARIETIES																								
Hyola® Regiment XC	R		R	Hybrid, TruFlex®, Clearfield®	ADFH																			
Hyola® Battalion XC	RMR			Hybrid, TruFlex®, Clearfield®	ADF																			
Hyola® Garrison XC	RMR		R	Hybrid, TruFlex®, Clearfield®	ADF																			
GLUFOSINATE AND TRIAZINE-TOLERANT VARIETIES																								
InVigor® LT 4530P	RMR	R		Hybrid, LibertyLink®, Triazine	BF																			
GLUFOSINATE AND GLYPHOSATE-TOLERANT VARIETIES																								
InVigor® LR 4540P	RMR	R		Hybrid, LibertyLink®, TruFlex®	B																			

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

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

Please check updated ratings using the Blackleg Management Guide or the NVT Disease Ratings.

FABA BEAN

Faba bean variety yield performance – Eyre Peninsula

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: Yeelanna faba bean.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		**3.80**	**4.18**	**4.55**	**5.62**
PBA Zahra(ɗ)	No trial	100	105	100	98
PBA Marne(ɗ)		83	100	105	106
PBA Samira(ɗ)		99	99	101	98
PBA Bendoc(ɗ)*		108	107	89	94
PBA Amberley(ɗ)		100	99	99	96
Fiesta VF		96	97	97	97
Farah(ɗ)		97	99	95	96
Nura(ɗ)		107	102	86	91
PBA Rana(ɗ)			85	87	86
Sowing date		**5 May**	**31 May**	**17 May**	**18 May**
Rainfall J–M (mm)		**25**	**62**	**173**	**36**
Rainfall A–O (mm)		**349**	**339**	**382**	**288**

Special thanks to 2023 trial cooperator, Chad Glover.

* 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

Faba bean variety disease ratings – South Australia

The following table contains varietal ratings for the predominant diseases of faba bean in South Australia. These ratings are updated annually by crop pathologists and were released in March 2024.

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

Table 2: Faba bean disease guide for South Australia.

Variety	Ascochyta blight	Cercospora leaf spot	Chocolate spot (Botrytis)	RLN resistance (*Pratylenchus thornei*)	Leaf rust
Cairo	VS	S	S	MSS	S
Doza	VS	S	S	MSS	MR
Farah(Þ)	MS	S	S	MS	VS
FBA Ayla(Þ)		S	S	MRMS	MR
Fiesta VF	S	S	S	MS	VS
Nura(Þ)	MR (P)	S	MS	MS	VS
PBA Amberley(Þ)	MR	S	MRMS	MRMS	VS
PBA Bendoc(Þ)	MR	S	S	MRMS	VS
PBA Marne(Þ)	MS	S	MS (P)	MS	MRMS
PBA Nanu(Þ)		S	S	MRMS	MR
PBA Nasma(Þ)	S	S	S	MSS	MRMS
PBA Rana(Þ)	MRMS (P)	S	MS	MS	VS
PBA Samira(Þ)	MR (P)	S	MS	MRMS	S
PBA Warda(Þ)	S	S	S	MRMS	MRMS
PBA Zahra(Þ)	MRMS	S	MS	MRMS	S

Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, (P) = provisional rating.

FIELD PEA

New field pea varieties

The following information is for field pea varieties released in the 12 months to the date when the MET analysis was published on NVT online. Please go to nvt.grdc.com.au 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]
APB Bondi(Ф)	Agriculture Victoria	TBC	APB Bondi(Ф) (tested as OZP1903) is a Kaspa-type pea with mid-flowering and mid-maturity. APB Bondi(Ф) combines a number of traits in a semi-leafless and semi-dwarf background. It is rated resistant to moderately resistant to downy mildew; resistant to powdery mildew, pea seed-borne mosaic virus and bean leaf roll virus; tolerant to boron toxicity and moderately tolerant to salinity. It has a high yield potential and wide adaptation. Seed is marketable as Kaspa pea.

* EPR amount is ex-GST, (Ф) 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

Field pea variety yield performance – Eyre Peninsula

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: Minnipa field pea.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		1.33	2.13	2.69	0.92
APB Bondi(b)	No trial	107	104	116	101
PBA Butler(b)			109	110	108
PBA Pearl		105	100	119	99
PBA Taylor(b)		106	105	106	105
PBA Noosa(b)		96	99	105	94
PBA Gunyah(b)			103	94	105
PBA Oura(b)		105	97	98	102
Kaspa		96	106	94	105
PBA Percy		101	100	95	107
PBA Wharton(b)		106	95	98	97
Sowing date		6 May	4 June	11 May	4 May
Rainfall J–M (mm)		77	44	89	38
Rainfall A–O (mm)		218	210	300	167

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

Table 2: Rudall field pea.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	0.86	1.75	2.12	2.44	
PBA Pearl	128	108	118	123	Compromised trial
APB Bondi(b)		117	107	111	
PBA Butler(b)	97		109	108	
PBA Noosa(b)	111	103	102	108	
PBA Taylor(b)	88	112	100	100	
PBA Percy	107	90	106	100	
Kaspa	88	104	98	95	
PBA Oura(b)	99	93	99	96	
PBA Gunyah(b)	85		95	90	
PBA Wharton(b)	88	97	90	90	
Sowing date	17 May	19 May	31 May	24 May	22 May
Rainfall J–M (mm)	3	45	53	203	36
Rainfall A–O (mm)	213	252	225	274	152

Special thanks to 2023 trial cooperator, BA & JD Heath.
Learn more via the NVT Long Term Yield Reporter

Table 3: Yeelanna field pea.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	3.42	2.98	3.74	3.45	4.35
PBA Pearl	105	108	104	118	108
APB Bondi(b)		103	102	107	113
PBA Butler(b)	101		100	107	110
PBA Noosa(b)	97	102	100	106	106
PBA Taylor(b)	100	100	100	98	106
PBA Percy	106	101	100	102	90
Kaspa	98	99	97	98	102
PBA Oura(b)	104	99	101	96	92
PBA Gunyah(b)	100		99	92	96
PBA Wharton(b)	100	96	101	89	96
Sowing date	27 May	19 May	2 June	17 May	18 May
Rainfall J–M (mm)	6	25	62	173	36
Rainfall A–O (mm)	346	349	339	382	288

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

Field pea variety disease ratings – South Australia

The following table contains varietal ratings for the predominant diseases of field pea in South Australia. These ratings are updated annually by crop pathologists and were released in March 2024.

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

Table 4: Field pea disease guide for South Australia.

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

Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, (P) = provisional rating, ( ) show outlier.

LENTIL

New lentil varieties

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

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

* EPR amount is ex-GST, (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

Lentil variety yield performance – Eyre Peninsula

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: Yeelanna lentil.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		**1.86**	**3.31**	**1.72**	**3.92**
GIA Thunder(Ф)*	Compromised trial	122	114	138	111
GIA Lightning(Ф)*		109	109	107	112
PBA Jumbo2(Ф)		108	102	132	105
ALB Terrier(Ф)			109	116	102
PBA KelpieXT(Ф)*		96	91	126	105
PBA Ace(Ф)		105	94	95	110
PBA HighlandXT(Ф)*		97	100	108	102
PBA Hurricane XT(Ф)*		100	97	98	99
GIA Leader(Ф)*		104	97	93	97
PBA Bolt(Ф)		90	97	88	103
Sowing date	**27 May**	**19 May**	**2 Jun**	**17 May**	**18 May**
Rainfall J–M (mm)	**6**	**25**	**62**	**173**	**36**
Rainfall A–O (mm)	**346**	**349**	**339**	**382**	**288**

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

Lentil variety disease ratings – South Australia

The following table contains varietal ratings for the predominant diseases of lentil in South Australia. These ratings are updated annually by crop pathologists and were released in March 2024.

Selected varieties of most relevance to South 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 South Australia.

Variety	Ascochyta blight (Pathotype 2 PBA Hurricane XT(Ф) virulent)	Ascochyta blight (Pathotype 1 Nipper(Ф) virulent)	Botrytis grey mould	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)
ALB Terrier(Ф)	MR (P)	R	MRMS (P)	MR	MR
GIA Leader(Ф)	MR (P)	MR (P)	MRMS (P)	MRMS (P)	MR (P)
GIA Lightning(Ф)	MRMS (P)	R (P)	MS (P)	MRMS (P)	MR (P)
GIA Metro(Ф)	RMR (P)	MR (P)	MRMS (P)	MR (P)	MRMS (P)
GIA Sire(Ф)	MRMS (P)	R (P)	MS (P)	MRMS (P)	MRMS (P)
GIA Thunder(Ф)	MRMS (P)	R (P)	MRMS (P)	MR (P)	MR (P)
Nipper(Ф)	MR	MRMS	MRMS	RMR	MR
PBA Ace(Ф)	MR	R	MS	MR	MRMS
PBA Bolt(Ф)	MRMS	MR	S	MR	MR
PBA Hallmark XT(Ф)	MRMS	RMR	MRMS	MR	MRMS
PBA HighlandXT(Ф)	MR (P)	MR	MS	MR	MRMS
PBA Hurricane XT(Ф)	MRMS (P)	RMR	MS	MRMS	MRMS
PBA Jumbo2(Ф)	RMR	R	MR (P)	MR	MRMS
PBA KelpieXT(Ф)	MRMS	MRMS	MS	MRMS	MRMS

Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, (P) = provisional rating.

LUPIN

New lupin varieties

The following information is for lupin varieties released in the 12 months to the date when the MET analysis was published on NVT online. Please go to nvt.grdc.com.au 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]
Gidgee(Φ)	Australian Grain Technologies	4.50	A very high and stable yielding alternative to PBA Jurien(Φ) and Mandelup(Φ). Widely adapted but particularly well adapted to the northern and central wheatbelt of WA. Metribuzin tolerant. Reduced risk of seed splitting compared with PBA Jurien(Φ). Moderately resistant to stem Phomopsis. Good CMV resistance. Slightly quicker maturity relative to PBA Jurien(Φ), slightly slower than Mandelup(Φ).
Rosemont(Φ)	Australian Grain Technologies	4.50	A very high yielding alternative to PBA Jurien(Φ), Coyote(Φ) and Mandelup(Φ). Best performance in softer-finishing situations and southern WA environments. Unique white flower and faintly speckled seed. Metribuzin tolerant. Excellent early vigour. Reduced risk of seed splitting compared with PBA Jurien(Φ). Taller plant height, may improve harvestability. Moderately resistant to stem Phomopsis. Good CMV resistance. Slightly slower maturity relative to PBA Jurien(Φ), slightly quicker than Coyote(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.

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

Lupin variety yield performance – Eyre Peninsula

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: Ungarra narrow-leaf lupin.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.32	1.89		3.22	2.01
Coyote[Ф]		109	Compromised trial	103	109
PBA Bateman[Ф]	109	114		103	107
Rosemont[Ф]				107	103
PBA Gunyidi[Ф]	107	112		100	105
Lawler[Ф]		100		104	103
Jenabillup[Ф]	95	111		100	103
PBA Jurien[Ф]	83	107		108	100
PBA Barlock[Ф]	82	110		104	100
Mandelup[Ф]	96	101		102	100
Gidgee[Ф]				105	98
Sowing date	**13 May**	**5 May**	**24 May**	**3 May**	**2 May**
Rainfall J–M (mm)	**4**	**39**	**51**	**131**	**25**
Rainfall A–O (mm)	**260**	**330**	**318**	**364**	**178**

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

Lupin variety disease ratings – South Australia

The following table contains varietal ratings for the predominant diseases of lupin in South Australia. These ratings are updated annually by crop pathologists and were released in March 2024.

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

Table 2: Lupin disease guide for South Australia.

Variety	Anthracnose resistance	Cucumber mosaic virus (CMV)	Phomopsis pod infection	Phomopsis stem infection	Sclerotinia stem rot
Coromup[Ф]	MR	MR	MS	MR	S (P)
Coyote[Ф]	MRMS	MRMS	MRMS	S	S (P)
Gidgee[Ф]	RMR	MRMS	S (P)	MR	S (P)
Jenabillup[Ф]	MS	MRMS	MR	MS	S (P)
Lawler[Ф]	MR	MRMS	MS	MR	S (P)
Mandelup[Ф]	MRMS	MRMS	S	MR	S (P)
PBA Barlock[Ф]	RMR	MRMS	MR	MR	S (P)
PBA Bateman[Ф]	MRMS	MR	MS	RMR	S (P)
PBA Gunyidi[Ф]	MRMS	MRMS	MRMS	RMR	S (P)
PBA Jurien[Ф]	RMR	MS	MRMS	RMR	S (P)
PBA Leeman[Ф]	MRMS	MRMS	MRMS	MR	S (P)
Rosemont[Ф]	MRMS	MR	MRMS (P)	MR	S (P)
Wonga	MR	MR	MR	MR	S (P)

Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, (P) = provisional rating.

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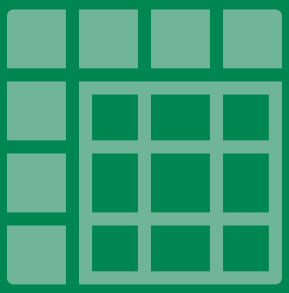

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