NVT
HARVEST REPORT

GRDC NATIONAL VARIETY TRIALS™

MARCH 2024

Southern New South Wales
Northern Region

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NVT Harvest Report – Southern New South Wales

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

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

Design and production:
Coretext, www.coretext.com.au

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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 - Southern New South Wales provides information to support growers and advisers with decisions on variety selection for **Southern New South Wales**. 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 **Southern New South Wales** 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 - Southern New South Wales***, 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 **Southern New South Wales**.

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.

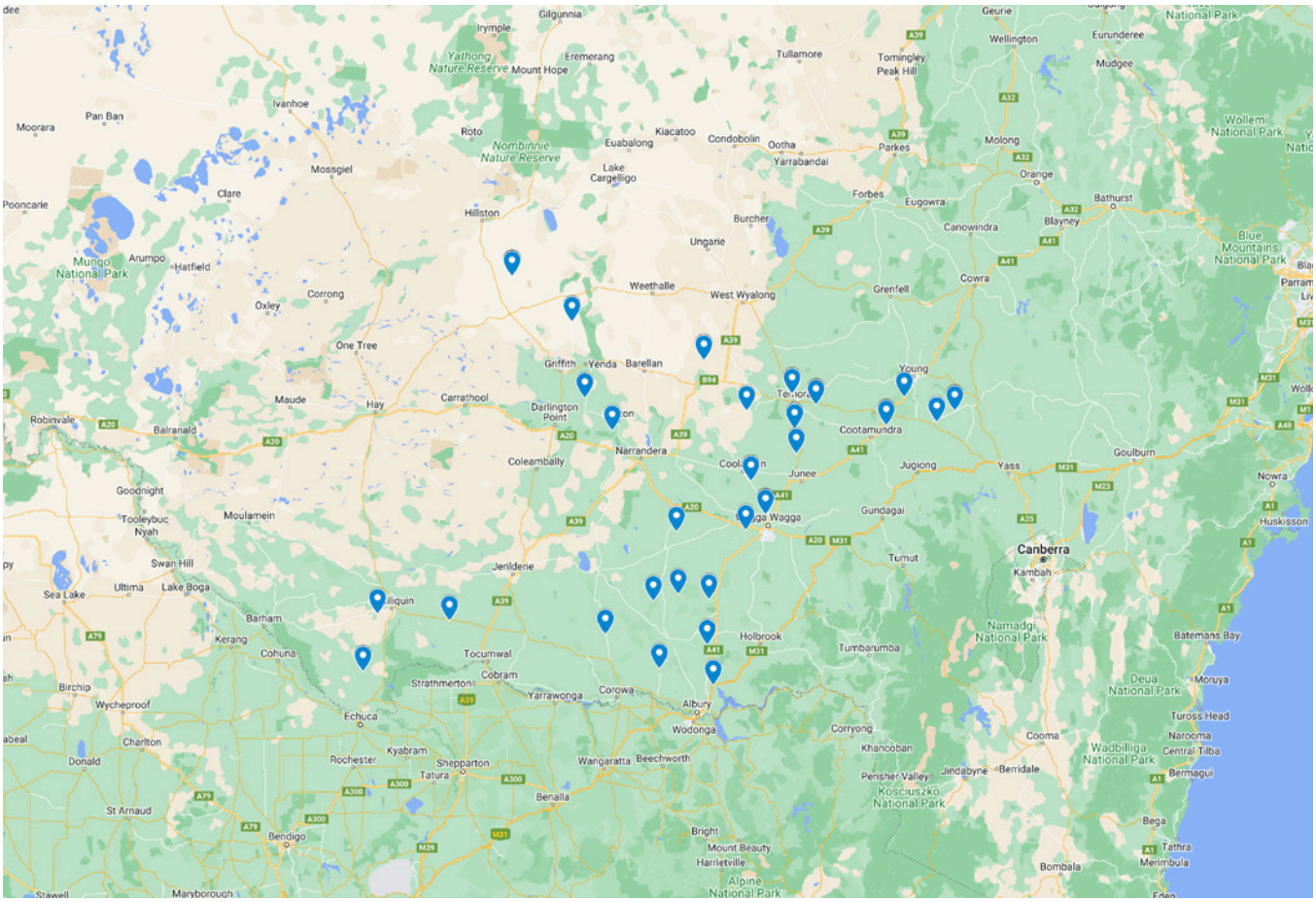
Trials listed as compromised are not suitable for making variety decisions. Results can be found in the Quarantined trial reports.

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

NVT SITE LOCATIONS – Southern New South Wales

Figure 1: Locality of NVT trial sites in Southern New South Wales 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]
Genie(ф)	InterGrain		3.50	Genie(ф) is a mid-slow maturing wheat and is an excellent alternative to RockStar(ф) 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(ф). Genie(ф), with its slightly later maturity than RockStar(ф) and long coleoptile, enables earlier sowing opportunities to be maximised. Genie(ф) 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(ф) has good sprouting tolerance. Genie(ф) 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.
Leverage(ф)	Australian Grain Technologies		TBC	Replacement for EGA Gregory(ф), Coolah(ф) and LRPB Flanker(ф). Very high yielding in the early planting window. APH quality classification in the northern zone, with south eastern zone classification pending. Good resistance to major diseases. Mid-slow maturity, suited to late April/early May planting. Good yellow spot resistance. Good physical grain quality characteristics. Shorter plant type than other EGA Gregory(ф)-type varieties.
Longford	Australian Grain and Forage Seeds		3.85	Longford is a long season, high yield potential red wheat with a strong disease package and lodging tolerance. Longford is suited to dual purpose (graze/grain) or grain-only farming systems.
LRPB Major(ф)	LongReach Plant Breeders		TBC	Mid-slow maturing spring wheat (similar to Beckom(ф) and RockStar(ф)) 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(ф) 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(ф)	LongReach Plant Breeders		TBC	Variety description not supplied.
LRPB Tracer(ф)	LongReach Plant Breeders		TBC	Mid-spring maturing variety (similar to LRPB Reliant(ф) and Suntop(ф)) suitable for main season seeding opportunities across NSW and Queensland. Strong performance in sodic soil yield trials combined with a good disease package for northern production systems and excellent RLN (*Pratylenchus thornei*) tolerance. Compact canopy (similar plant height to LRPB Lancer(ф)) which can aid in stubble management in zero-till farming systems. APH south east (Southern NSW) northern classification (Northern NSW and Queensland) expected prior to sowing in 2024. Marketed by Pacific 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	Grain classification	End point royalty* ($)	Comments supplied by breeding company[1]
Sundancer(Φ)	Australian Grain Technologies		TBC	An ideal replacement for LRPB Lancer(Φ). Very high yielding, with excellent yield stability. Suits late April, early May planting. Excellent rust resistance. Medium-short plant type with better straw strength than LRPB Lancer(Φ). Longer coleoptile than LRPB Lancer(Φ) and other early season varieties. APH classification for the northern zone, with southern eastern zone pending.
Tomahawk CL Plus(Φ)	Australian Grain Technologies		4.15	Scepter(Φ)-type Clearfield® variety with increased yield over Scepter(Φ). The highest-yielding Clearfield® wheat variety in WA, South Australia and Victoria. Tolerant to Clearfield® Intervix® herbicide. Similar disease resistance profile to Scepter(Φ). Similar grain size and test weight as Scepter(Φ). Mid-season maturity, similar to Scepter(Φ). APW quality classification in South Australia, Victoria, southern NSW, classification for WA pending.

* 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.

Wheat variety yield performance – Southern New South Wales

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: Beckom main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		**4.35**	**5.32**	**4.39**	**3.38**
Tomahawk CL Plus(ↀ)*	Trial failed			100	119
Calibre(ↀ)		105	108	99	115
Vixen(ↀ)		103	109	97	115
Brumby(ↀ)			107	101	111
Sunmaster(ↀ)		110	99	107	107
Boree(ↀ)		103	108	99	111
Suncentral(ↀ)		107	101	107	106
LRPB Matador(ↀ)				97	110
RockStar(ↀ)		101	109	101	106
Scepter(ↀ)		104	105	99	111
Beckom(ↀ)		105	103	103	107
Leverage(ↀ)					103
Borlaug 100(ↀ)				104	111
Ballista(ↀ)		99	107	103	103
Sunblade CL Plus(ↀ)*		105	101	102	104
Sowing date	**14 May**	**18 May**	**13 May**	**23 May**	**15 May**
Rainfall J–M (mm)	**76**	**122**	**261**	**187**	**140**
Rainfall A–O (mm)	**128**	**366**	**276**	**450**	**192**

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

Table 2: Deniliquin main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		**2.31**	**3.08**	**7.06**	**4.77**
Tomahawk CL Plus(ↀ)*	No trial			105	115
LRPB Matador(ↀ)				104	110
Calibre(ↀ)		118	111	100	114
Sunmaster(ↀ)		117	100	112	101
Brumby(ↀ)			108	103	110
RockStar(ↀ)		98	107	107	112
Vixen(ↀ)		111	107	100	114
Scepter(ↀ)		113	106	103	108
Leverage(ↀ)					107
Sunblade CL Plus(ↀ)*		112	102	108	102
Beckom(ↀ)		112	104	105	105
Boree(ↀ)		104	107	100	114
Ballista(ↀ)		99	106	105	108
Suncentral(ↀ)		106	100	107	105
Kingston(ↀ)				103	106
Sowing date		**13 May**	**28 May**	**10 May**	**1 Jun**
Rainfall J–M (mm)		**122**	**90**	**74**	**26**
Rainfall A–O (mm)		**308**	**249**	**456**	**270**

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

Table 3: Galong main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**1.03**	**6.17**	**7.13**	**8.63**	**4.74**
RGT Zanzibar	-6	119	137	117	89
Ballista(ↀ)	173	107	110	107	111
Sunmaster(ↀ)	63	116	121	108	103
Tomahawk CL Plus(ↀ)*				104	121
Brumby(ↀ)			102	104	114
LRPB Scotch(ↀ)			130	111	89
Scepter(ↀ)	159	109	100	103	114
Sunblade CL Plus(ↀ)*	86	111	111	103	105
Beckom(ↀ)	124	107	106	104	106
RockStar(ↀ)	155	113	90	105	113
LRPB Tracer(ↀ)					109
Leverage(ↀ)					102
Kingston(ↀ)				102	108
Calibre(ↀ)		102	89	100	115
Razor CL Plus(ↀ)*	142	98	110	95	109
Sowing date	**13 May**	**13 May**	**24 May**	**17 May**	**23 May**
Rainfall J–M (mm)	**282**	**107**	**363**	**194**	**146**
Rainfall A–O (mm)	**160**	**569**	**390**	**729**	**294**

Special thanks to 2023 trial cooperator, Tony and Samantha Flanery; Belinda Bateman.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 4: Gerogery main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**2.72**	**6.38**	**7.18**	**5.39**	**5.42**
RGT Zanzibar	85	113	115	125	93
RockStar(ↀ)	113	112	107	102	104
Tomahawk CL Plus(ↀ)*				93	115
Leverage(ↀ)					100
Ballista(ↀ)	116	108	104	106	105
Suncentral(ↀ)	101	106	107	108	102
Sunmaster(ↀ)	101	106	107	103	106
Brumby(ↀ)			101	97	111
Boree(ↀ)		107	103	98	107
Vixen(ↀ)	121	107	102	91	110
Calibre(ↀ)		103	99	94	114
LRPB Scotch(ↀ)			112	118	86
Beckom(ↀ)	109	104	103	100	107
Scepter(ↀ)	117	104	101	93	109
Kingston(ↀ)				98	106
Sowing date	**20 May**	**19 May**	**16 May**	**2 Jun**	**20 May**
Rainfall J–M (mm)	**85**	**157**	**204**	**403**	**283**
Rainfall A–O (mm)	**206**	**378**	**228**	**720**	**383**

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

Table 5: Lockhart main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**1.62**	**6.28**	**6.07**	**6.09**	**4.99**
Tomahawk CL Plus(ф)*				94	116
RockStar(ф)	121	108	109	102	106
Vixen(ф)	140	107	108	94	112
Boree(ф)		106	109	100	108
Ballista(ф)	123	103	106	104	107
Calibre(ф)		100	108	95	113
Brumby(ф)			106	97	111
Leverage(ф)					101
Scepter(ф)	130	103	104	95	109
Suncentral(ф)	92	106	104	107	102
Beckom(ф)	113	103	104	100	106
LRPB Matador(ф)				90	108
RGT Zanzibar		110	100	120	94
Kingston(ф)				98	105
Sunmaster(ф)	95	106	102	101	104
Sowing date	**20 May**	**14 May**	**20 May**	**24 May**	**18 May**
Rainfall J–M (mm)	**60**	**250**	**255**	**383**	**130**
Rainfall A–O (mm)	**185**	**446**	**239**	**371**	**231**

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

Table 6: Mayrung main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**7.21**	**7.75**	**8.40**	**5.71**	**7.44**
RGT Zanzibar	116	113	113	124	104
Sunmaster(ф)	121	113	111	111	109
Sunblade CL Plus(ф)*	122	111	109	105	106
LRPB Matador(ф)				98	108
Tomahawk CL Plus(ф)*				100	112
Leverage(ф)					104
RockStar(ф)	117	110	112	104	105
LRPB Scotch(ф)			109	117	96
Scepter(ф)	112	107	107	99	107
Beckom(ф)	110	106	106	104	107
Brumby(ф)			106	100	109
Suncentral(ф)	106	106	107	108	105
Ballista(ф)	109	105	106	105	106
Kingston(ф)				101	105
Vixen(ф)	108	106	109	95	105
Sowing date	**22 May**	**25 May**	**24 May**	**11 May**	**2 Jun**
Rainfall J–M (mm)	**24**	**94**	**90**	**190**	**98**
Rainfall A–O (mm)	**141**	**278**	**216**	**448**	**233**
Irrigation A–O (mm)	**300**	**210**	**140**		**180**

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

Table 7: Merriwagga main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**1.23**	**4.83**	**4.37**	**4.84**	**3.52**
Tomahawk CL Plus(ф)*				101	108
Calibre(ф)		109	112	100	105
Vixen(ф)	115	112	111	98	107
Brumby(ф)			110	102	104
RockStar(ф)	113	106	115	100	105
Ballista(ф)	117	104	112	105	102
Boree(ф)		108	111	99	106
Scepter(ф)	111	109	107	100	104
LRPB Matador(ф)				93	105
Beckom(ф)	108	105	104	102	103
Kingston(ф)				99	102
Leverage(ф)					105
Suncentral(ф)	100	103	101	105	104
Reilly(ф)				99	99
Borlaug 100(ф)				109	101
Sowing date	**15 May**	**12 May**	**18 May**	**19 May**	**17 May**
Rainfall J–M (mm)	**47**	**170**	**144**	**133**	**160**
Rainfall A–O (mm)	**126**	**239**	**286**	**469**	**135**

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

Table 8: Oaklands main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**2.60**	**4.97**	**5.51**	**6.48**	**4.74**
RGT Zanzibar		111	101	122	111
Sunmaster(ф)	108	109	105	110	112
Tomahawk CL Plus(ф)*				104	108
Suncentral(ф)	100	108	105	108	108
Leverage(ф)					108
Beckom(ф)	108	103	106	104	107
Sunblade CL Plus(ф)*	107	106	103	103	109
Brumby(ф)			109	103	105
RockStar(ф)	101	101	109	106	104
Calibre(ф)		98	110	98	106
Borlaug 100(ф)				106	102
Scepter(ф)	110	99	108	102	104
Vixen(ф)	107	99	112	101	102
LRPB Matador(ф)				95	109
Boree(ф)		101	109	101	103
Sowing date	**17 May**	**19 May**	**21 May**	**17 May**	**11 May**
Rainfall J–M (mm)	**28**	**197**	**125**	**196**	**99**
Rainfall A–O (mm)	**115**	**365**	**231**	**482**	**258**

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

Table 9: Temora main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**0.69**	**6.21**	**6.43**		**4.89**
Tomahawk CL Plus(ↀ)*				Trial failed	115
Vixen(ↀ)	160	110	105		112
Calibre(ↀ)		107	104		111
RockStar(ↀ)	141	108	108		109
Brumby(ↀ)			104		110
Scepter(ↀ)	142	110	103		109
Ballista(ↀ)	154	106	106		107
Boree(ↀ)		104	105		109
Sunmaster(ↀ)	70	114	104		104
Beckom(ↀ)	117	108	103		106
Kingston(ↀ)					106
Leverage(ↀ)					103
Sunblade CL Plus(ↀ)*	90	109	102		104
Suncentral(ↀ)	85	106	105		103
Catapult(ↀ)	142	100	100		106
Sowing date	**20 May**	**14 May**	**22 May**	**23 May**	**12 May**
Rainfall J–M (mm)	**162**	**179**	**303**	**232**	**229**
Rainfall A–O (mm)	**130**	**429**	**331**	**622**	**219**

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

Table 10: Wagga Wagga main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**1.69**	**6.48**	**5.69**	**5.72**	**4.38**
Tomahawk CL Plus(ↀ)*				96	118
Brumby(ↀ)			108	104	113
Ballista(ↀ)	134	106	108	108	109
Calibre(ↀ)		103	108	97	114
Scepter(ↀ)	135	105	107	100	111
Sunmaster(ↀ)	90	105	104	120	102
RockStar(ↀ)	124	110	110	91	107
Beckom(ↀ)	116	103	105	107	106
Vixen(ↀ)	145	108	111	79	114
Kingston(ↀ)				101	106
Sunblade CL Plus(ↀ)*	99	103	103	110	101
RGT Zanzibar	45	107	102	130	90
Razor CL Plus(ↀ)*	131	97	99	104	107
Leverage(ↀ)					98
LRPB Tracer(ↀ)					106
Sowing date	**16 May**	**18 May**	**16 May**	**19 May**	**13 May**
Rainfall J–M (mm)	**81**	**123**	**267**	**229**	**188**
Rainfall A–O (mm)	**191**	**408**	**267**	**498**	**257**

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

Table 11: Yenda main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**7.84**	**5.93**	**8.41**	**6.24**	**6.05**
RGT Zanzibar	111	114	105	119	112
Tomahawk CL Plus(ↀ)*				109	111
RockStar(ↀ)	117	111	106	105	117
Sunmaster(ↀ)	112	109	111	113	109
LRPB Scotch(ↀ)			102	112	115
Sunblade CL Plus(ↀ)*	115	108	109	106	110
Leverage(ↀ)					115
LRPB Matador(ↀ)				100	111
Ballista(ↀ)	110	106	107	110	107
Scepter(ↀ)	110	104	110	106	107
Vixen(ↀ)	109	105	108	101	112
Brumby(ↀ)			109	107	104
Beckom(ↀ)	107	105	107	106	104
Sundancer(ↀ)					110
Kingston(ↀ)				103	105
Sowing date	**23 May**	**26 May**	**19 May**	**23 May**	**19 May**
Rainfall J–M (mm)	**54**	**141**	**211**	**219**	**131**
Rainfall A–O (mm)	**184**	**323**	**203**	**439**	**153**
Irrigation A–O (mm)	**400**	**137**	**140**		**298**

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

Table 12: Beckom early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**0.44**	**4.70**	**5.82**	**4.68**	**3.41**
RockStar(ↀ)	150	107	111	99	122
Leverage(ↀ)				105	120
Catapult(ↀ)	113	106	108	93	123
Sundancer(ↀ)				106	113
LRPB Beaufort(ↀ)		103	106	112	106
Brumby(ↀ)					125
Genie(ↀ)					111
Denison(ↀ)	64	104	105	96	120
Sheriff CL Plus(ↀ)*	135	104	104	91	116
Coota(ↀ)	136	104	104	90	117
LRPB Trojan(ↀ)	132	104	104	91	116
Rebel 65(ↀ)				99	108
LRPB Major(ↀ)				100	114
SUN1081A(ↀ)					114
Beckom(ↀ)	120	104	103	93	112
Sowing date	**15 Apr**	**27 Apr**	**5 May**	**3 May**	**5 May**
Rainfall J–M (mm)	**76**	**122**	**261**	**187**	**140**
Rainfall A–O (mm)	**128**	**366**	**276**	**450**	**192**

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

Table 13: Galong early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**0.55**	**6.40**	**7.50**	**8.74**	**5.49**
BigRed(ф)			119	138	86
RGT Zanzibar	54	121	117	118	106
LRPB Beaufort(ф)		117	114	121	104
RGT Accroc(ф)	24	118	113	133	84
RGT Cesario(ф)		117	113	133	80
RGT Waugh(ф)		123	108	126	78
Stockade(ф)				116	95
Genie(ф)					112
RockStar(ф)	178	108	103	100	121
IGW6755					106
Leverage(ф)				107	112
Sundancer(ф)				109	108
EG Jet(ф)	71	114	108	108	100
LRPB Scotch(ф)			109	105	103
LRPB Major(ф)				99	113
Sowing date	**29 Apr**	**28 Apr**	**23 Apr**	**2 May**	**3 May**
Rainfall J–M (mm)	**282**	**107**	**363**	**194**	**146**
Rainfall A–O (mm)	**160**	**569**	**390**	**729**	**294**

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

Table 14: Gerogery early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**3.20**	**6.87**	**7.46**	**5.58**	**5.65**
RGT Zanzibar	102	116	114	120	106
LRPB Beaufort(ф)		114	115	122	105
BigRed(ф)			120	140	83
Leverage(ф)				107	115
RockStar(ф)	125	108	102	98	120
Sundancer(ф)				109	109
Genie(ф)					111
RGT Accroc(ф)	74	111	117	134	82
LRPB Major(ф)				99	113
Stockade(ф)				118	95
RGT Cesario(ф)		110	117	135	79
LRPB Scotch(ф)			103	106	102
Valiant(ф) CL Plus*		103	102	100	107
EG Jet(ф)	94	107	104	109	98
IGW6755					101
Sowing date	**1 May**	**27 Apr**	**30 Apr**	**23 Apr**	**30 Apr**
Rainfall J–M (mm)	**85**	**157**	**204**	**403**	**283**
Rainfall A–O (mm)	**206**	**378**	**228**	**720**	**383**

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

Table 15: Lockhart early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		**6.14**	**6.00**	**6.45**	**5.13**
LRPB Beaufort(ф)	Compromised trial	117	114	116	101
RGT Zanzibar		120	110	113	102
Leverage(ф)				106	113
RGT Accroc(ф)		110	117		78
RGT Cesario(ф)					75
Sundancer(ф)				108	108
Stockade(ф)				112	92
Genie(ф)					108
RockStar(ф)		108	99	99	117
LRPB Major(ф)				99	112
LRPB Scotch(ф)			99	102	100
Valiant(ф) CL Plus*		104	101	100	106
EG Jet(ф)		108	100	105	95
Denison(ф)		100	99	93	117
IGW6755					98
Sowing date	**26 Apr**	**24 Apr**	**30 Apr**	**26 Apr**	**8 May**
Rainfall J–M (mm)	**60**	**250**	**255**	**383**	**130**
Rainfall A–O (mm)	**185**	**446**	**239**	**371**	**231**

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

Table 16: Mayrung early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**7.31**	**7.64**	**7.93**	**6.00**	**7.72**
RGT Zanzibar	116	113	121	117	112
LRPB Beaufort(ф)		111	118	116	107
Genie(ф)					110
RockStar(ф)	114	110	108	98	112
LRPB Scotch(ф)			111	107	107
IGW6755					102
Stockade(ф)				114	100
RGT Accroc(ф)	105	107	119	123	87
EG Jet(ф)	108	107	112	108	102
Leverage(ф)				104	111
LRPB Major(ф)				101	112
Sundancer(ф)				106	107
RGT Cesario(ф)				124	86
RGT Waugh(ф)				119	78
Sunflex(ф)	107	105		100	106
Sowing date	**8 May**	**8 May**	**7 May**	**3 May**	**9 May**
Rainfall J–M (mm)	**24**	**94**	**90**	**190**	**98**
Rainfall A–O (mm)	**141**	**278**	**216**	**448**	**233**
Irrigation A–O (mm)	**300**	**210**	**140**		**180**

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

Table 17: Merriwagga early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**1.71**	**4.94**	**4.68**	**4.97**	**4.37**
RockStar(ↄ)	140	114	123	108	111
Leverage(ↄ)				110	107
Catapult(ↄ)	126	115	118	97	106
Brumby(ↄ)					107
Genie(ↄ)					106
Denison(ↄ)	104	114	116	99	104
Sundancer(ↄ)				110	106
Coota(ↄ)	134	111	114	94	103
Sheriff CL Plus(ↄ)*	133	111	113	95	103
LRPB Major(ↄ)				107	103
LRPB Trojan(ↄ)	130	111	113	94	103
LRPB Beaufort(ↄ)		104	110	117	106
Beckom(ↄ)	122	108	111	98	103
RGT Zanzibar	71	103	111	119	103
IGW6755					104
Sowing date	**29 Apr**	**28 Apr**	**29 Apr**	**28 Apr**	**4 May**
Rainfall J–M (mm)	**47**	**170**	**144**	**133**	**160**
Rainfall A–O (mm)	**126**	**239**	**286**	**469**	**135**

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

Table 18: Oaklands early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**2.76**	**5.73**	**5.91**	**5.59**	**4.67**
RGT Accroc(ↄ)		106	106		100
LRPB Beaufort(ↄ)		111	111	126	110
RGT Cesario(ↄ)					99
RGT Zanzibar	93	111	111	118	109
RockStar(ↄ)	119	106	115	104	110
Leverage(ↄ)				106	112
Sundancer(ↄ)				110	109
RGT Waugh(ↄ)					88
Genie(ↄ)					107
Stockade(ↄ)				120	102
IGW6755					100
LRPB Major(ↄ)				96	107
EG Jet(ↄ)	96	101	105	111	100
Valiant(ↄ) CL Plus*		103	105	101	104
LRPB Scotch(ↄ)			104	103	101
Sowing date	**7 May**	**23 Apr**	**27 Apr**	**22 Apr**	**1 May**
Rainfall J–M (mm)	**28**	**197**	**125**	**196**	**99**
Rainfall A–O (mm)	**115**	**365**	**231**	**482**	**258**

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

Table 19: Temora early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**0.41**	**5.89**	**6.88**		
RGT Zanzibar	61	132	119	Trial failed	Trial failed
BigRed(ↄ)			125		
Longford			115		
LRPB Beaufort(ↄ)		121	119		
RGT Cesario(ↄ)		116	122		
RGT Accroc(ↄ)	42	114	120		
RGT Calabro	51	115	113		
LRPB Scotch(ↄ)			105		
EG Jet(ↄ)	87	116	105		
Illabo(ↄ)	74	119	103		
LRPB Nighthawk(ↄ)	61	115	103		
Severn(ↄ)			103		
RGT Waugh(ↄ)		111	105		
DS Pascal(ↄ)	99	110	99		
Valiant(ↄ) CL Plus*		104	102		
Sowing date	**1 May**	**22 Apr**	**27 Apr**	**3 May**	**20 Apr**
Rainfall J–M (mm)	**162**	**179**	**303**	**232**	**229**
Rainfall A–O (mm)	**130**	**429**	**331**	**622**	**219**

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

Table 20: Wagga Wagga early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		**6.87**	**6.08**	**5.91**	**4.22**
RGT Zanzibar	Compromised trial	114	114	118	113
LRPB Beaufort(ↄ)		114	115	115	108
BigRed(ↄ)			115	131	91
RGT Cesario(ↄ)		105	112	127	87
Leverage(ↄ)				101	112
RGT Accroc(ↄ)		106	111	125	88
Sundancer(ↄ)				104	108
Stockade(ↄ)				115	101
Genie(ↄ)					110
LRPB Major(ↄ)				99	112
LRPB Scotch(ↄ)			103	109	107
EG Jet(ↄ)		103	102	110	102
RockStar(ↄ)		109	104	93	112
Illabo(ↄ)		99	100	111	101
Valiant(ↄ) CL Plus*		104	103	99	105
Sowing date	**18 Apr**	**28 Apr**	**26 Apr**	**29 Apr**	**25 Apr**
Rainfall J–M (mm)	**81**	**123**	**267**	**229**	**188**
Rainfall A–O (mm)	**191**	**408**	**267**	**498**	**257**

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

Table 21: Yenda early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**7.80**	**6.49**	**8.26**	**6.52**	**6.84**
RGT Zanzibar	112	113	114	116	117
LRPB Beaufort(Ф)		113	108	115	111
Genie(Ф)					109
IGW6755					108
RockStar(Ф)	108	110	111	104	107
LRPB Scotch(Ф)			110	107	111
EG Jet(Ф)	109	104	106	109	109
LRPB Major(Ф)				102	109
Stockade(Ф)				112	107
Sunflex(Ф)	107	100		102	110
Illabo(Ф)	108	100	106	107	109
Leverage(Ф)				104	105
RGT Accroc(Ф)	108	108	92	121	101
Sundancer(Ф)				106	105
RGT Waugh(Ф)				123	101
Sowing date	**14 May**	**15 May**	**6 May**	**2 May**	**10 May**
Rainfall J–M (mm)	**54**	**141**	**211**	**219**	**131**
Rainfall A–O (mm)	**184**	**323**	**203**	**439**	**153**
Irrigation A–O (mm)	**400**	**137**	**140**		**298**

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

Table 22: Culcairn long season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**3.26**	**5.96**	**6.67**	**5.93**	**6.45**
Anapurna	105	110	109	143	104
LRPB Beaufort(Ф)	126	108	112	108	115
Stockade(Ф)				114	102
RGT Zanzibar	121	107	108	105	116
BigRed(Ф)			107	142	97
Longford			102	147	97
RGT Cesario(Ф)		102	106	134	88
RGT Accroc(Ф)	93	103	108	124	91
RGT Waugh(Ф)		101	97	149	93
Valiant(Ф) CL Plus*			105	77	106
IGW6755			113	77	94
Willaura(Ф)					106
Illabo(Ф)	108	100	100	97	108
LRPB Nighthawk(Ф)	106	97	96	96	105
Severn(Ф)			94	97	104
Sowing date	**18 Apr**	**20 Apr**	**16 Apr**	**18 Apr**	**19 Apr**
Rainfall J–M (mm)	**85**	**157**	**204**	**334**	**91**
Rainfall A–O (mm)	**206**	**378**	**228**	**543**	**282**

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

Table 23: Galong long season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		**5.61**	**7.98**	**8.92**	**5.99**
Anapurna	Trial failed	123	124	125	102
LRPB Beaufort(Ф)		120	119	118	111
BigRed(Ф)			118	126	96
Longford			115	126	93
RGT Waugh(Ф)		133	111	127	86
RGT Accroc(Ф)		121	108	130	92
RGT Cesario(Ф)		118	110	128	90
RGT Zanzibar		114	116	109	111
Stockade(Ф)				112	108
Illabo(Ф)		104	104	98	104
Manning(Ф)		117	85	111	83
Einstein		111	85	112	77
Willaura(Ф)					115
LRPB Nighthawk(Ф)		94	101	90	102
Severn(Ф)			95	90	101
Sowing date	**3 Apr**	**14 Apr**	**9 Apr**	**19 Apr**	**18 Apr**
Rainfall J–M (mm)	**282**	**107**	**363**	**194**	**146**
Rainfall A–O (mm)	**160**	**569**	**390**	**729**	**294**

Special thanks to 2023 trial cooperator, Tony and Samantha Flanery; Belinda Bateman.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 24: Lockhart durum wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**0.94**	**5.46**	**4.85**	**5.10**	**4.01**
Patron(Ф)			102		108
Bitalli(Ф)	115	101	103	115	104
Westcourt(Ф)	114	100	104	107	104
DBA Mataroi(Ф)	114	99	103	109	104
DBA-Aurora(Ф)	105	105	103	106	100
DBA Spes		106		104	97
DBA-Artemis(Ф)			102	99	97
DBA Bindaroi(Ф)	94	101	102	85	98
Caparoi(Ф)	92	100	100	85	98
DBA Vittaroi(Ф)	94	99	103	77	98
Sowing date	**20 May**	**14 May**	**20 May**	**24 May**	**18 May**
Rainfall J–M (mm)	**60**	**250**	**255**	**383**	**130**
Rainfall A–O (mm)	**185**	**446**	**239**	**371**	**231**

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

Table 25: Mayrung durum wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		7.22	8.38	4.05	7.39
Patron(Ф)	No trial		106		108
Westcourt(Ф)		104	107	109	102
Bitalli(Ф)		102	105	114	103
DBA Mataroi(Ф)		103	106	110	102
DBA-Aurora(Ф)		101	103	108	99
DBA-Artemis(Ф)			101	101	98
DBA Vittaroi(Ф)		105	103		96
DBA Spes		97		103	98
DBA Bindaroi(Ф)		102	101	91	97
Caparoi(Ф)		101	99	89	97
Sowing date		**25 May**	**24 May**	**20 May**	**2 June**
Rainfall J–M (mm)		**94**	**90**	**190**	**98**
Rainfall A–O (mm)		**278**	**216**	**448**	**233**
Irrigation A–O (mm)		**210**	**140**		**180**

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

Table 26: Merriwagga durum wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	0.76	3.65	3.87	3.50	3.06
Patron(Ф)			101		110
Westcourt(Ф)	107	106	106	102	105
DBA Mataroi(Ф)	106	106	105	101	105
Bitalli(Ф)	108	105	103	102	105
DBA-Aurora(Ф)	107	102	102	102	102
DBA Vittaroi(Ф)	94	101	106	98	97
DBA Bindaroi(Ф)	97	100	103	99	98
DBA-Artemis(Ф)			100	102	99
DBA Spes		97		102	99
Caparoi(Ф)	95	98	101	99	97
Sowing date	**15 May**	**12 May**	**18 May**	**19 May**	**17 May**
Rainfall J–M (mm)	**47**	**170**	**144**	**133**	**160**
Rainfall A–O (mm)	**126**	**239**	**286**	**469**	**135**

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

Table 27: Yenda durum wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	8.67	5.65	7.41	3.80	
Westcourt(Ф)	104	101	107	112	Compromised trial
Bitalli(Ф)	102	102	104	119	
DBA Mataroi(Ф)	103	99	106	116	
DBA-Aurora(Ф)	103	108	100	95	
DBA-Artemis(Ф)			98	82	
DBA Vittaroi(Ф)	104	98	106	77	
DBA Spes		110		87	
DBA Bindaroi(Ф)	103	102	102	78	
Caparoi(Ф)	101	100	101	82	
DBA Lillaroi(Ф)	93	93	93	96	
Sowing date	**23 May**	**26 May**	**19 May**	**23 May**	**19 May**
Rainfall J–M (mm)	**54**	**141**	**211**	**219**	**131**
Rainfall A–O (mm)	**184**	**323**	**203**	**439**	**153**
Irrigation A–O (mm)	**400**	**137**	**140**		**298**

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

Wheat variety quality – Southern New South Wales

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 Southern New South Wales 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 10 NVT sites in Southern NSW in 2022.

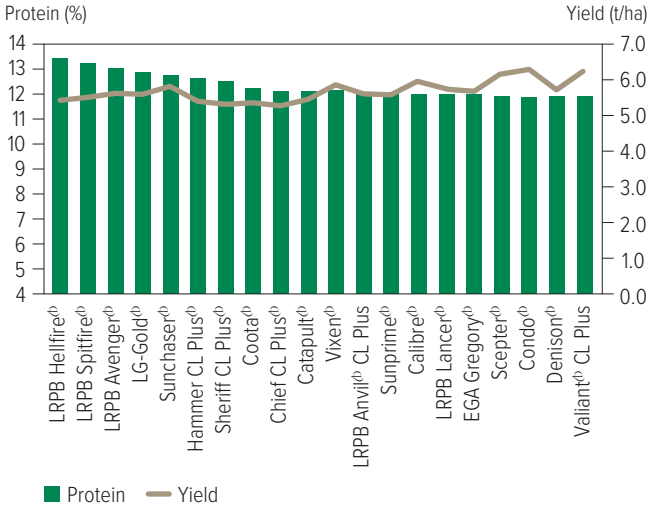


Figure 2: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from 11 NVT sites in Southern NSW in 2023.

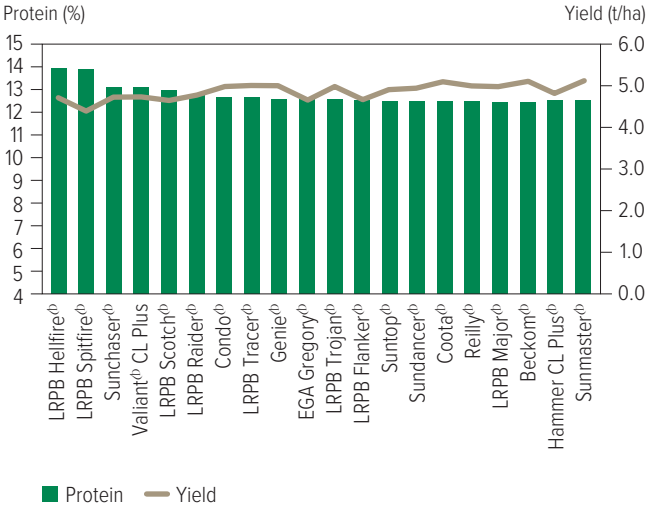


Figure 3: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from nine NVT sites in Southern NSW in 2022.

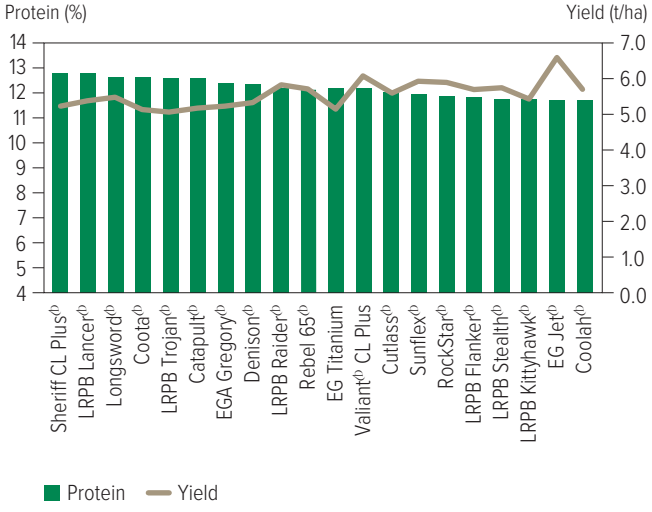


Figure 4: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from nine NVT sites in Southern NSW in 2023.

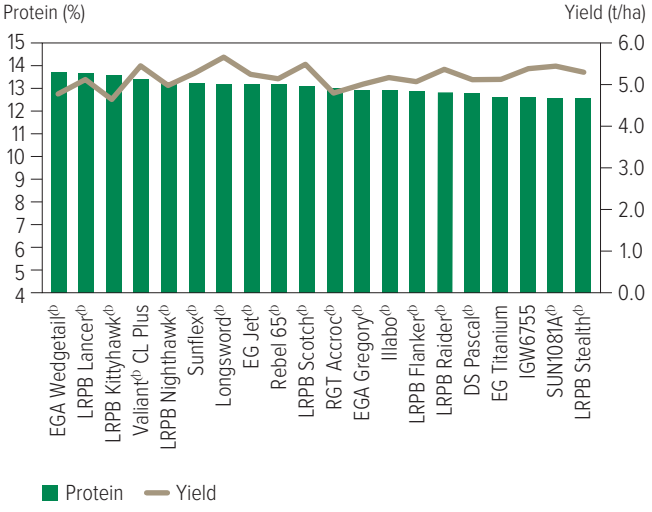


Figure 5: Protein (%) and yield (t/ha) comparisons for long season wheat varieties from two NVT sites in Southern NSW in 2022.

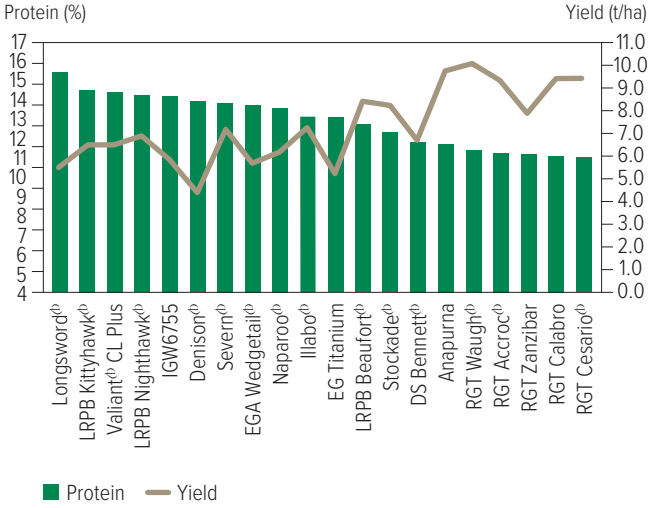


Figure 6: Protein (%) and yield (t/ha) comparisons for long season wheat varieties from two NVT sites in Southern NSW in 2023.

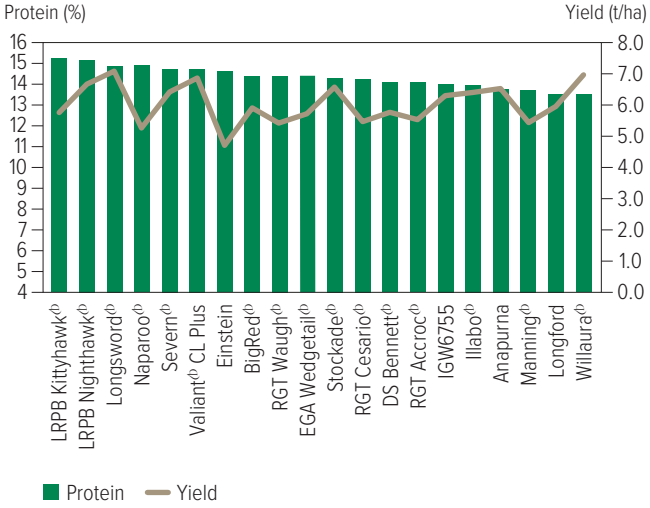


Figure 7: Protein (%) and yield (t/ha) comparisons for durum wheat varieties from four NVT sites in Southern NSW in 2022.

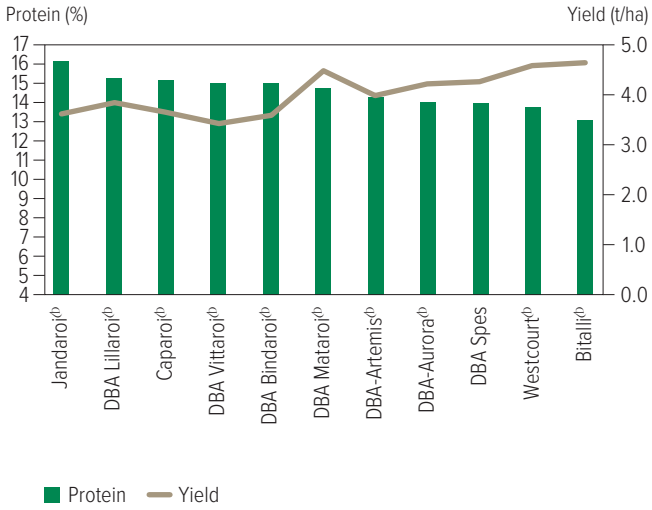
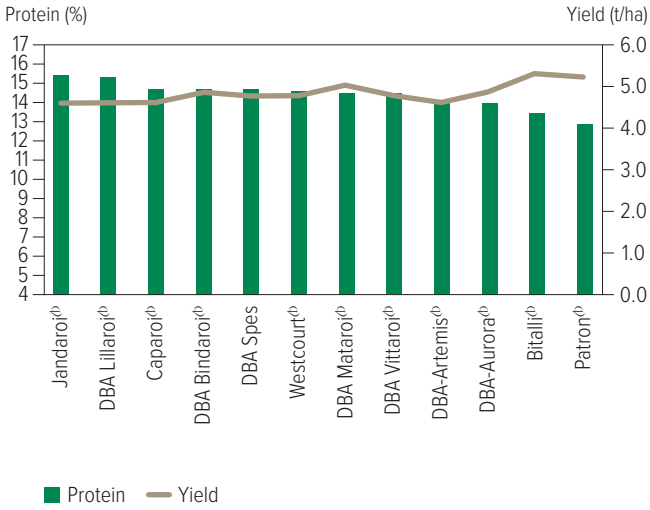


Figure 8: Protein (%) and yield (t/ha) comparisons for durum wheat varieties from three NVT sites in Southern NSW in 2023.



Test weight comparisons

Figure 9: Test weight (kg/hL) comparisons for main season wheat varieties from 10 NVT sites in Southern NSW in 2022.

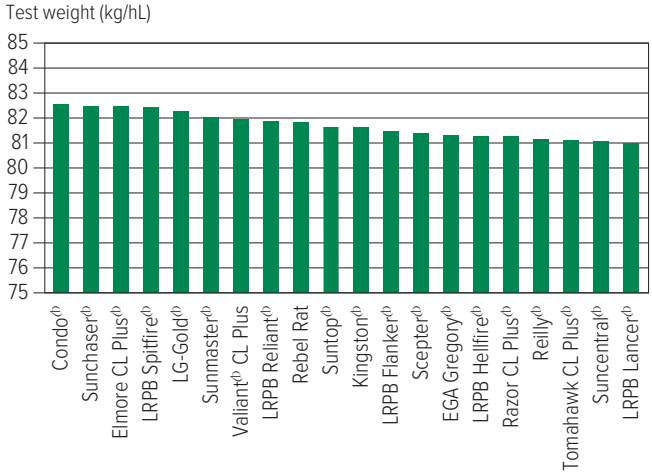


Figure 10: Test weight (kg/hL) comparisons for main season wheat varieties from 11 NVT sites in Southern NSW in 2023.

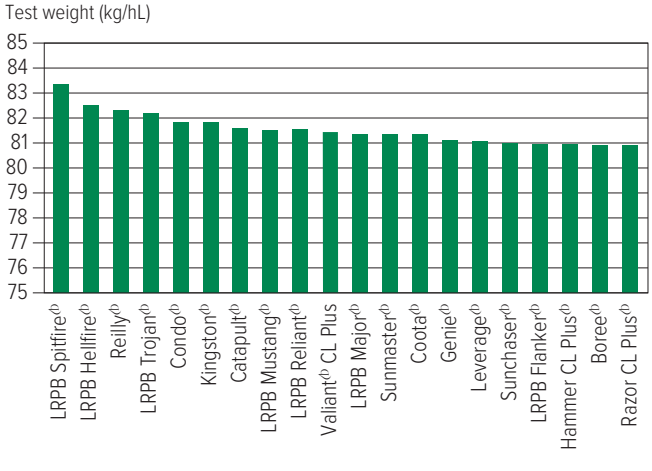


Figure 11: Test weight (kg/hL) comparisons for early season wheat varieties from nine NVT sites in Southern NSW in 2022.

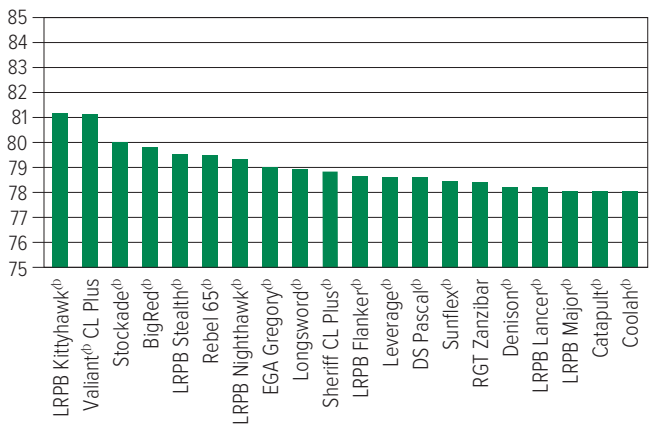


Figure 12: Test weight (kg/hL) comparisons for early season wheat varieties from nine NVT sites in Southern NSW in 2023.

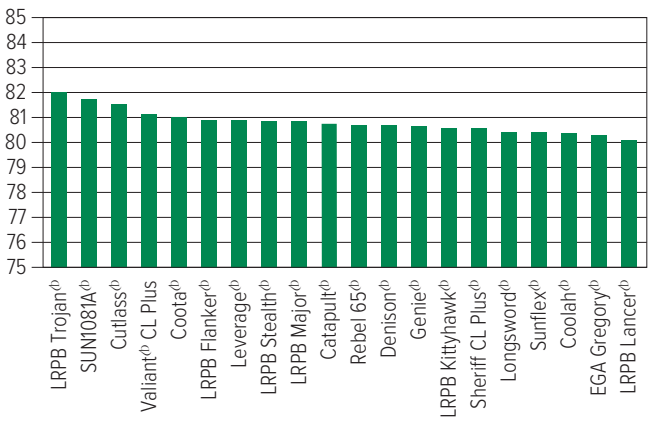


Figure 13: Test weight (kg/hL) comparisons for long season wheat varieties from two NVT sites in Southern NSW in 2022.

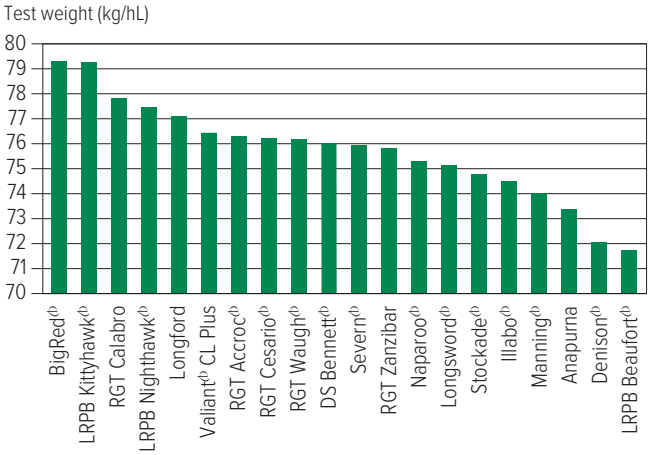


Figure 14: Test weight (kg/hL) comparisons for long season wheat varieties from two NVT sites in Southern NSW in 2023.

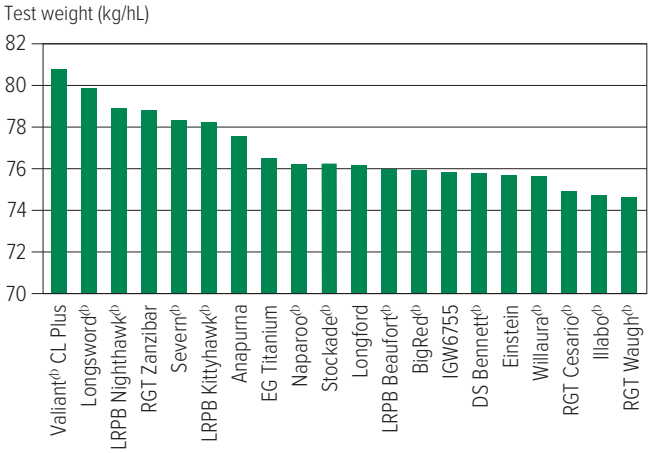


Figure 15: Test weight (kg/hL) comparisons for durum wheat varieties from four NVT sites in Southern NSW in 2022.

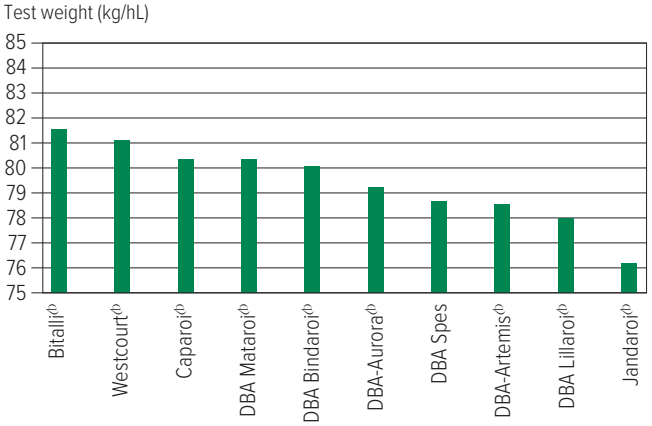
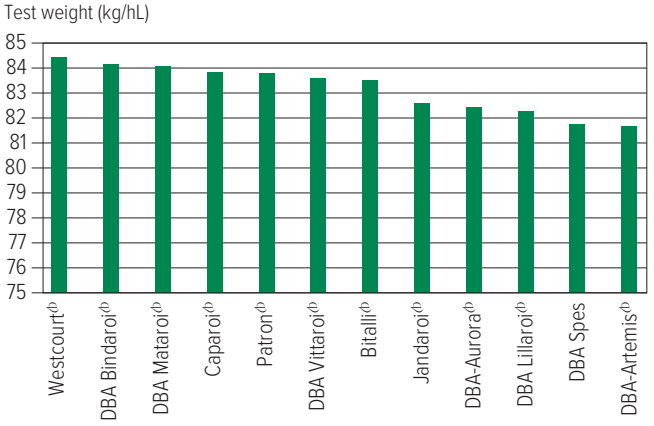


Figure 16: Test weight (kg/hL) comparisons for durum wheat varieties from three NVT sites in Southern NSW in 2023.



Screenings comparisons

Figure 17: Screenings (<2.0mm) comparisons for main season wheat varieties from 10 NVT sites in Southern NSW in 2022.

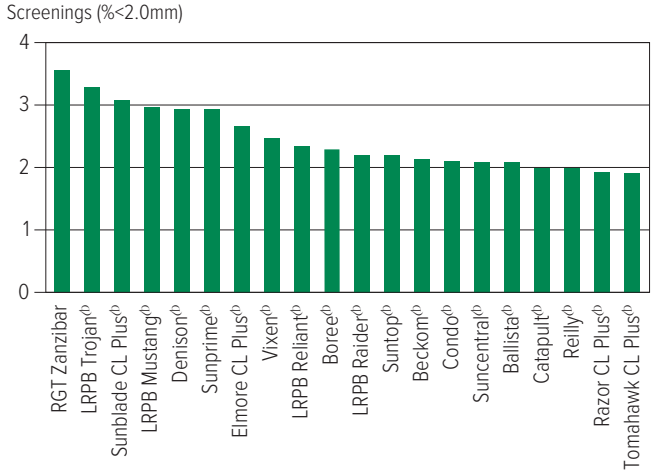


Figure 18: Screenings (<2.0mm) comparisons for main season wheat varieties from 11 NVT sites in Southern NSW in 2023.

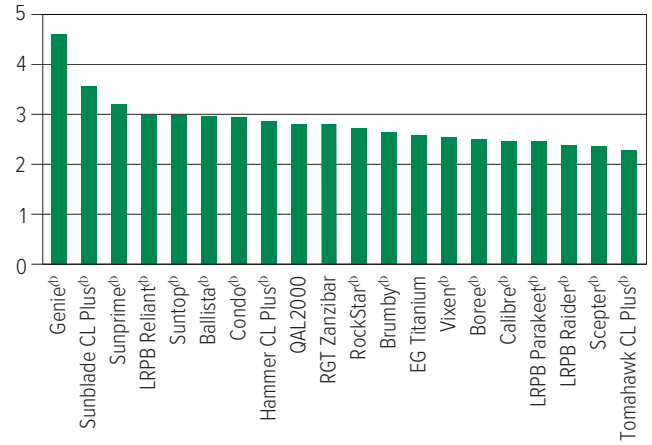


Figure 19: Screenings (<2.0mm) comparisons for early season wheat varieties from nine NVT sites in Southern NSW in 2022.

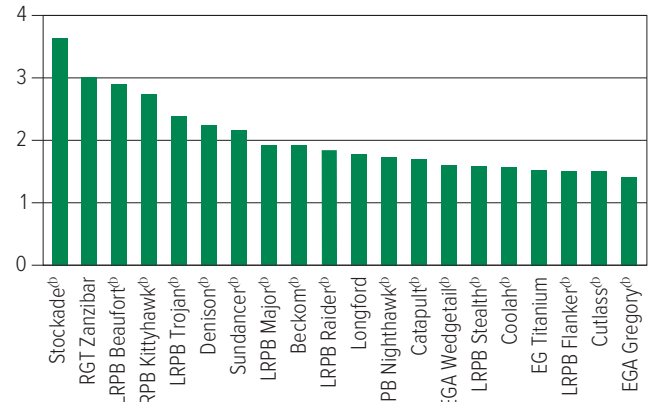


Figure 20: Screenings (<2.0mm) comparisons for early season wheat varieties from nine NVT sites in Southern NSW in 2023.

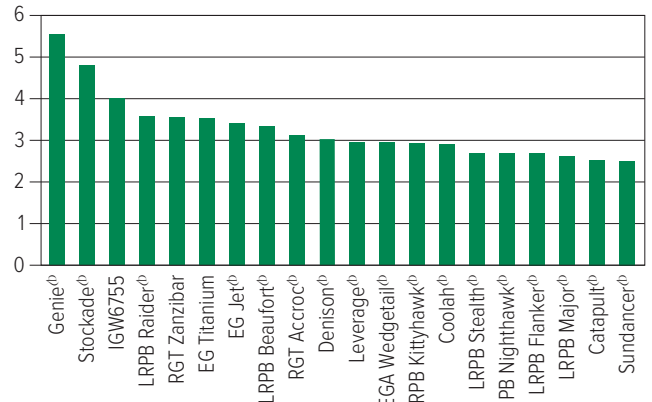


Figure 21: Screenings (<2.0mm) comparisons for long season wheat varieties from two NVT sites in Southern NSW in 2022.

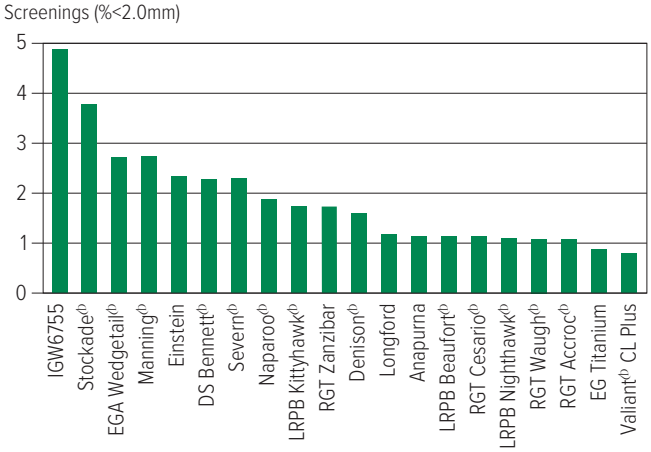


Figure 22: Screenings (<2.0mm) comparisons for long season wheat varieties from two NVT sites in Southern NSW in 2023.

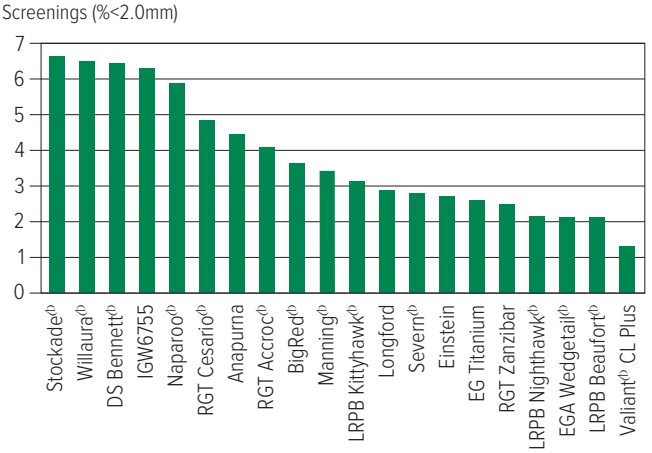


Figure 23: Screenings (<2.0mm) comparisons for durum wheat varieties from four NVT sites in Southern NSW in 2022.

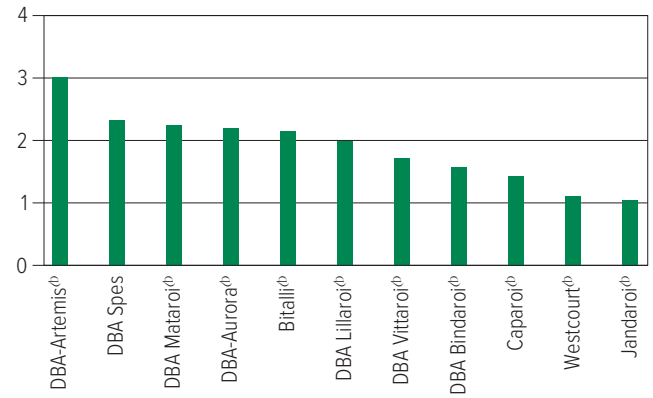
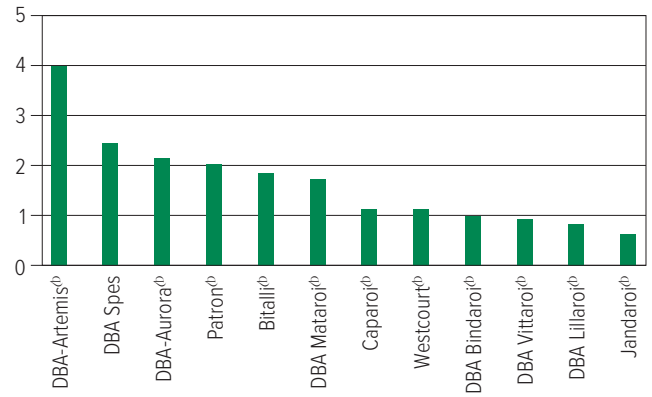


Figure 24: Screenings (<2.0mm) comparisons for durum wheat varieties from three NVT sites in Southern NSW in 2023.



Wheat variety disease ratings – New South Wales

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

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

Table 28: Wheat disease guide for New South Wales.

Variety	Crown rot	Leaf rust	Stem rust	Stripe rust (east coast resistance)	Powdery mildew	*Septoria tritici* blotch	Yellow leaf spot	RLN resistance (*Pratylenchus thornei*)	RLN tolerance (*Pratylenchus thornei*)	RLN resistance (*Pratylenchus neglectus*)	RLN tolerance (*Pratylenchus neglectus*)	CCN	Black point*
Anapurna	SVS	MS	MSS	RMR	RMR	MRMS	MRMS	S (P)		MS		MRMS	
Ascot(ф)	S	RMR	MRMS	MSS	S	S	MRMS	S	MI	S	MI	MR	
Ballista(ф)	S	S	MR	MSS	SVS	SVS	MS	MRMS	MI	S	MTMI	MRMS	
Beckom(ф)	S	MSS	MRMS	MRMS	S	S	MSS	MSS	TMT	S	MTMI	R	
BigRed(ф)	MSS	MRMS	S	RMR	R	MR	MR	MS		MS		S	
Boree(ф)	S	S	MR	SVS	VS	SVS	MRMS	MSS	MII	S	I	MSS	
Borlaug 100(ф)	MSS	MR	MR	SVS		MSS	MRMS	MS	TMT	S	T	MS	
Brumby(ф)	S	SVS	MR	MS	MR/S	S	MRMS	MS (P)	MI	MRMS	TMT	MRMS	
Calibre(ф)	S	S	MR	S	MSS	S	MRMS	MSS	MII	S	MT	MRMS	
Catapult(ф)	MSS	S	MR	S	S	MSS	MRMS	MS	MT	S	MII	R	
Chief CL Plus(ф)	MSS	MR	MR	SVS	SVS	S	MRMS	MSS	IVI	MRMS	MT	MS	
Condo(ф)	S	S	MR	MRMS/MS	MR	S	MS	MS	TMT	S	MT	MR	
Coolah(ф)	MSS	RMR	MR	MSS	S	MSS	MSS	MS	MT	S	MT	S	
Coota(ф)	MSS	MR	RMR	S	S	S	MSS	MS	MTMI	MR	MI	MR	
Cutlass(ф)	S	RMR	R	MSS	MSS	MSS	MSS	MSS	MI	MSS	MT	MR	
Denison(ф)	MSS	S	MS	S	S	MSS	MRMS	S	MI	S	MII	MS	
DS Bennett(ф)	VS	SVS	MS	S	R	MSS	MRMS	S		S		S	
DS Faraday(ф)	MSS	RMR	RMR	MRMS		MSS	MSS	MSS	MT	S	MTMI	MS	
DS Pascal(ф)	S	MRMS#	MSS	MRMS	RMR	MSS	MS	S	IVI	S	MTMI	S	
DS Tull(ф)	S	MSS	MR	MS		SVS	S	MSS	MTMI	MSS	MT	MSS	
EG Jet(ф)	S	S	S	MRMS	MSS	MSS	MRMS	S	I	S	MI	MRMS	
EG Titanium	MSS	MS	MS	MR	S	MSS	MSS	MSS	MTMI	MSS	MTMI	R	
EGA Gregory(ф)	S	MR	MR	MS	RMR	MSS	S	MSS	MT	S	MT	S	
EGA Wedgetail(ф)	S	MSS	MRMS	MS	MRMS	MSS	MSS	VS	MII	S	MII	S	
Einstein	S (P)	S	S	RMR		MSS	MR	S		MRMS		S	
Emu Rock(ф)	MSS	SVS	MS	SVS	MSS	S	MS	S	IVI	MSS	MI	S	
Genie(ф)		S (P)	MS (P)	MRMS (P)	SVS (P)	S (P)	MRMS (P)						
Hammer CL Plus(ф)	MSS	S	MR	MS	S	MSS	MRMS	S	I	MSS	MTMI	MRMS	
Hyperno(ф)	SVS	RMR	RMR	MR	RMR	MSS	MRMS	RMR	TMT	MS	MTMI	MS	
IGW6755	S	MS	MRMS	MSS	S	MSS	MRMS	MR	MI	MSS	I	MSS	
Illabo(ф)	S	S	MRMS	MRMS	R	MSS	MS	MSS	MII	MSS	VI	MRMS	
Jandaroi(ф)	VS	MR	MRMS	MRMS	MS	MSS	MRMS	MRMS	MTMI	MS	MII	MS	
Jillaroo(ф)	S	S	MS	MSS	S	S	MS	MS (P)	MII	S	I	MS	
Jumbuck(ф)		RMR (P)	MRMS (P)	MR (P)	MS (P)	MSS (P)	MS (P)						
Kingston(ф)	S	S	S	MSS	S	S	MSS	MRMS	MTMI	S	MTMI	R	
Leverage(ф)	S	RMR#	MR	MRMS	S	S	MRMS	MS	MT	S		MS (P)	
Longford	MSS	RMR	RMR	RMR	R	MRMS/S	MRMS	S		S		MS	
Longsword(ф)	MSS	MS	MR	MRMS/MS	MSS	MS	MRMS	MRMS	MI	MRMS	VI	MRMS	
LRPB Anvil(ф) CL Plus	MSS	SVS	MR	S	SVS	VS	MSS	S	VI	MSS	MII	MS	
LRPB Avenger(ф)	S	S	MS	S	SVS	S	MS	MRMS	MI	MSS	MI	MRMS	
LRPB Beaufort(ф)	S	MSS	SVS	RMR	RMR	S	MRMS	MSS	MT	MS	MI	MS	

Continued on next page

Table 28: Wheat disease guide for New South Wales (continued).

Variety	Crown rot	Leaf rust	Stem rust	Stripe rust (east coast resistance)	Powdery mildew	*Septoria tritici* blotch	Yellow leaf spot	RLN resistance (*Pratylenchus thornei*)	RLN tolerance (*Pratylenchus thornei*)	RLN resistance (*Pratylenchus neglectus*)	RLN tolerance (*Pratylenchus neglectus*)	CCN	Black point*
LRPB Flanker(Þ)	MSS	RMR	MR	MRMS	MR (P)	MSS	MSS	MSS	MT	S	MT	S	
LRPB Hellfire(Þ)	MSS	MSS	MR	MR	SVS	S	MSS	MSS	MI	MSS	MTMI	MS	
LRPB Impala(Þ)	MSS	SVS	MR	MRMS	R	SVS	MSS	S	MII	SVS	MTMI	MSS	
LRPB Kittyhawk(Þ)	SVS	MR	MRMS (S)	MR	MS	MRMS	MRMS	S	I	S	MI	S	
LRPB Lancer(Þ)	MSS	RMR	R	RMR	R	MS	MS	MS	TMT	S	MTMI	S	
LRPB Major(Þ)	S	MR#	MRMS	MRMS	MS	MSS	MS	MSS	MTMI	MSS		MRMS (P)	
LRPB Matador(Þ)	S	MSS	MS	MS	MS	S (P)	MRMS	MRMS	MT	S		MS (P)	
LRPB Mustang(Þ)	MSS	MSS	MRMS	MR	MSS	S	MSS	MSS	MTMI	S	MI	MR	
LRPB Nighthawk(Þ)	MSS	MSS	RMR	MR	SVS	MS	MS	MS	MI	MSS	IVI	MS	
LRPB Oryx(Þ)	MSS	RMR#	MR	MS	MR	SVS	MSS	MSS	IVI	MSS	MII	S	
LRPB Parakeet(Þ)	MSS	R	MR	MR	SVS	SVS	MSS	S	MII	MRMS	MT	MS	
LRPB Raider(Þ)	S	RMR	RMR	MR	MSS	S	MSS	MS	TMT	MSS	MTMI	S	
LRPB Reliant(Þ)	MS	RMR	R	MR	MR (P)	MSS	S	MSS	TMT	SVS	MTMI	MSS	
LRPB Scotch(Þ)	S	MR#	MSS	MRMS	MR	S	MRMS	S	MI	MS	MTMI	MS	
LRPB Spitfire(Þ)	MS	S	MR	MRMS	MR	S	S	MS	MTMI	MSS	MI	MS	
LRPB Stealth(Þ)	MSS	RMR#	R	RMR	MRMS	MSS	MS	S	MTMI	MSS	MTMI	S	
LRPB Tracer(Þ)		MR# (P)	MS (P)	MR (P)	MSS (P)	S (P)	S (P)						
LRPB Trojan(Þ)	MS	MR#	MRMS	S	S	S	MSS	MSS	MI	MSS	MT	MS	
Mace(Þ)	S	S	MRMS	SVS	MSS	SVS	MRMS	MS	MT	MS	MII	MRMS	
Manning(Þ)	VS	MSS	MR	RMR	MS	MRMS/S	MRMS	S		MSS		S	
Naparoo(Þ)	S	MS	MRMS	MRMS	R	S	MRMS	S	MI	SVS	I		
Razor CL Plus(Þ)	S	S	MRMS	MRMS	MSS	SVS	MSS	MS	MI	S	MT	MR	
Rebel 65(Þ)	S	MRMS	MSS	MS		SVS	MSS	MRMS	TMT	S	TMT	MSS	
Rebel Rat	MSS	MRMS#	MRMS	MS	VS	MSS	MRMS	MSS	MT	S	T	MRMS	
Reilly(Þ)	S	MSS	MRMS	MS	MSS	S	S	MSS	MTMI	MS	MTMI	R	
RGT Accroc(Þ)	SVS	SVS	MS	RMR	MSS	MS	MRMS	MSS		MS		S	
RGT Calabro	SVS	MSS	MS	RMR	RMR	MRMS	MR	MS		S	VI	S	
RGT Cesario(Þ)	VS	RMR	RMR	RMR	RMR	MRMS	MR	MSS		MRMS		MSS (P)	
RGT Waugh(Þ)	S	S	MS	RMR	R	MRMS#	MRMS	MSS		MSS		MS	
RGT Zanzibar	S	SVS	VS	MR	RMR	MSS	MS	MS (P)	MI	S	IVI	MSS	
RockStar(Þ)	S	S	MRMS	S	SVS	S	MRMS	MS	MI	MRMS	I	MSS	
Scepter(Þ)	MSS	MSS	MRMS	MSS	SVS	S	MRMS	MSS	MT	S	MTMI	MRMS	
SEA Condamine	MSS	RMR	MRMS	MSS		VS	MSS	MS	MT	S	MT	S	
SEA Peel	MSS	RMR	MR#	MR	MSS	MSS	MS	MRMS	MI	MSS		MS	
SEA Stockman	S	MR	MS	MRMS	SVS	MSS	MSS	S	MTMI	MSS		S	
Severn(Þ)	S	MRMS	MS	RMR	R	MSS	MRMS	MRMS		S		MSS (P)	
Sheriff CL Plus(Þ)	S	SVS	MS	SVS	SVS	S	MRMS	MRMS	I	MRMS	MTMI	MS	
Sting(Þ)	MSS	SVS	MRMS	S	SVS	SVS	MRMS	MS	MTMI	MS	MTMI	MS	
Stockade(Þ)	S	MR	MS	MR	SVS	MS	MRMS	MSS	MTMI	S	MT	MRMS	
SUN1081A(Þ)	MS	MR#	MRMS	MR	S	S	MRMS	MRMS	TMT	S		MS (P)	
Sunblade CL Plus(Þ)	S	MSS	MS	MRMS	S	S	MSS	MRMS	MT	MSS	MI	MSS	
Suncentral(Þ)	MSS	RMR	MRMS		SVS	S	MSS	MRMS	MT	MRMS	MI	S	
Sunchaser(Þ)	MSS	R	MR		VS	MSS	MS	MSS	MT	MSS	MTMI	MSS	
Sundancer(Þ)	MSS	RMR	MR	MR	S	MSS	MS	MS	MT	MSS		MS (P)	
Sunflex(Þ)	MSS	RMR#	MR	MRMS	S	SVS	MS	MSS	MI	S	MI	MS	
Sunmaster(Þ)	MSS	RMR	MS	MRMS	MSS	S	MSS	MS	TMT	MRMS	MTMI	MSS	
Sunmax(Þ)	MSS	MS	MRMS	RMR	S	MSS	MSS	MS	MI	S	MT	MRMS	
Sunprime(Þ)	MSS	MR#	MS	MS		S	MSS	S	MTMI	S	MTMI	MS	
Suntop(Þ)	MSS	MR	MRMS	MRMS	S	MSS	MSS	MRMS	TMT	S	MT	S	

Continued on next page

Table 28: Wheat disease guide for New South Wales (continued).

Variety	Crown rot	Leaf rust	Stem rust	Stripe rust (east coast resistance)	Powdery mildew	*Septoria tritici* blotch	Yellow leaf spot	RLN resistance (*Pratylenchus thornei*)	RLN tolerance (*Pratylenchus thornei*)	RLN resistance (*Pratylenchus neglectus*)	RLN tolerance (*Pratylenchus neglectus*)	CCN	Black point*
Tomahawk CL Plus(Ф)	S	S	MR	MSS	SVS	S (P)	MRMS	MS	TMT	S		MRMS (P)	
Valiant(Ф) CL Plus	MSS	S	MR	S	VS	MSS	MRMS	S (P)	IVI	S	MII	MSS (P)	
Vixen(Ф)	S	SVS	MRMS	SVS	SVS	S	MRMS	MS	I	MRMS	I	MSS	
Willaura(Ф)	S	MRMS	MR	S	SVS	S	MS	MRMS	MTMI	MSS	MII	MS	
Yitpi	S	S	S	MS	MS	S	SVS	S		MSS	MI	MR	
DURUM													
Caparoi(Ф)	VS	RMR	MR	MS	S	MRMS/S	MR	MR	MT	MS	MI	MRMS (P)	
DBA Bindaroi(Ф)	SVS	MR	MR	MS	MSS	MS	MS	MR	MTMI	MRMS	MI	MS	
DBA Lillaroi(Ф)	SVS	RMR	RMR	MS	MS	S	MRMS	RMR	MT	MRMS	MI	S	
DBA Mataroi(Ф)	SVS	MR	MRMS	MS	S	MSS	MRMS	RMR	MI	MS	MT	MRMS	
DBA Spes	VS	RMR	R	MS	MSS	S	MRMS	RMR	MI	MRMS	MTMI	MS	
DBA Vittaroi(Ф)	SVS	RMR	MR	MS	MS	MSS	MRMS	MR	MI	MS	I	S	
DBA-Artemis(Ф)	SVS	RMR	MR	MRMS	S	MRMS/S	MRMS	MR	MTMI	MS	MII	MS	
DBA-Aurora(Ф)	SVS	RMR	RMR	MRMS	MSS	MRMS/S	MRMS	RMR	MT	MRMS	MI	MSS	
Patron(Ф)	SVS	MR#	RMR	MRMS	MSS	MRMS	MRMS	MR	MT	MRMS	T	S	
Westcourt(Ф)	VS	RMR	RMR	MR	S	S	MRMS	MR	MT	MS	MI	MSS	

* ratings will be updated when available. Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible,
T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant,
(P) = provisional rating, / 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 – Southern New South Wales

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: Beckom main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		4.25	5.99	5.06	3.57
Neo(Ф) CL*	No trial				106
Combat(Ф)			118	107	118
Minotaur(Ф)		114	108	106	110
Cyclops(Ф)		114	107	100	119
Spinnaker(Ф)				111	100
Rosalind(Ф)		113	105	101	111
RGT Planet(Ф)		101	113	113	93
Zena(Ф) CL*			110	110	93
Yeti(Ф)		116	95	95	115
Laperouse(Ф)		113	96	96	113
Leabrook(Ф)		100	101	98	113
Maximus(Ф) CL*		117	92	90	116
Titan AX(Ф)*				97	112
Beast(Ф)		104	97	93	116
Bottler(Ф)		97	102	107	88
Sowing date		**18 May**	**13 May**	**23 May**	**15 May**
Rainfall J–M (mm)		**122**	**261**	**187**	**140**
Rainfall A–O (mm)		**366**	**276**	**450**	**192**

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

Table 2: Deniliquin main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		5.14	4.22	6.71	5.56
Neo(Ф) CL*	No trial				104
Combat(Ф)			118	101	106
Spinnaker(Ф)				106	106
RGT Planet(Ф)		106	102	107	106
Minotaur(Ф)		108	102	105	101
Zena(Ф) CL*			100	106	105
Cyclops(Ф)		109	107	100	101
Rosalind(Ф)		105	106	102	101
Leabrook(Ф)		101	113	99	97
Titan AX(Ф)*				97	98
Bottler(Ф)		98	96	105	101
Beast(Ф)		99	112	97	96
Fathom(Ф)		100	109	95	99
Buff(Ф)		101	106	93	102
Yeti(Ф)		100	102	102	94
Sowing date		**13 May**	**28 May**	**10 May**	**1 Jun**
Rainfall J–M (mm)		**122**	**90**	**74**	**26**
Rainfall A–O (mm)		**308**	**249**	**456**	**270**

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

Table 3: Lockhart main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.14	6.17	6.86	6.01	5.67
Neo(Ф) CL*					113
Combat(Ф)			108	110	110
Spinnaker(Ф)				118	106
Rosalind(Ф)	120	112	109	109	107
Minotaur(Ф)		112	108	111	108
RGT Planet(Ф)	92	115	107	119	104
Cyclops(Ф)		110	108	103	109
Zena(Ф) CL*			105	116	103
Yeti(Ф)	124	101	104	98	104
Maximus(Ф) CL*	122	101	105	94	105
Laperouse(Ф)	115	100	103	96	104
Bottler(Ф)	86	102	100	108	98
Spartacus CL(Ф)*	116	99	103	91	103
La Trobe(Ф)	114	99	102	91	103
Leabrook(Ф)	125	96	98	95	100
Sowing date	**20 May**	**14 May**	**20 May**	**24 May**	**18 May**
Rainfall J–M (mm)	**60**	**250**	**255**	**383**	**130**
Rainfall A–O (mm)	**185**	**446**	**239**	**371**	**231**

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

Table 4: Merriwagga main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.03	4.27	4.89	5.30	3.80
Neo(Ф) CL*					113
Combat(Ф)			111	111	112
Spinnaker(Ф)				112	107
Minotaur(Ф)		114	110	103	107
Cyclops(Ф)		111	108	101	108
Rosalind(Ф)	144	107	105	102	107
RGT Planet(Ф)	104	100	109	112	105
Zena(Ф) CL*			107	110	103
Yeti(Ф)	127	116	101	92	103
Laperouse(Ф)	101	115	102	93	102
Maximus(Ф) CL*	134	114	99	89	103
Bottler(Ф)	83	101	102	104	98
Leabrook(Ф)	126	97	99	98	101
Beast(Ф)	141	99	97	94	102
Spartacus CL(Ф)*	137	104	96	91	102
Sowing date	**15 May**	**12 May**	**18 May**	**19 May**	**17 May**
Rainfall J–M (mm)	**47**	**170**	**144**	**133**	**160**
Rainfall A–O (mm)	**126**	**239**	**286**	**469**	**135**

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

Table 5: Oaklands main season barley.					
Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	3.29	5.11	5.57	5.77	5.01
Neo(Φ) CL*					109
Rosalind(Φ)	111	108	110	110	103
Combat(Φ)			106	110	107
Minotaur(Φ)		111	108	110	104
Spinnaker(Φ)				105	107
RGT Planet(Φ)	103	111	108	102	107
Cyclops(Φ)		106	106	109	103
Yeti(Φ)	106	105	105	114	97
Zena(Φ) CL*			107	101	105
Maximus(Φ) CL*	106	104	106	107	98
Laperouse(Φ)	100	103	102	107	98
Beast(Φ)	111	94	99	112	96
Leabrook(Φ)	109	94	97	112	97
Spartacus CL(Φ)*	106	99	103	101	99
Bottler(Φ)	96	105	101	99	101
Sowing date	**17 May**	**19 May**	**21 May**	**17 May**	**11 May**
Rainfall J–M (mm)	**28**	**197**	**125**	**196**	**99**
Rainfall A–O (mm)	**115**	**365**	**231**	**482**	**258**

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

Barley variety quality – Southern New South Wales

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

Protein and yield comparisons

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

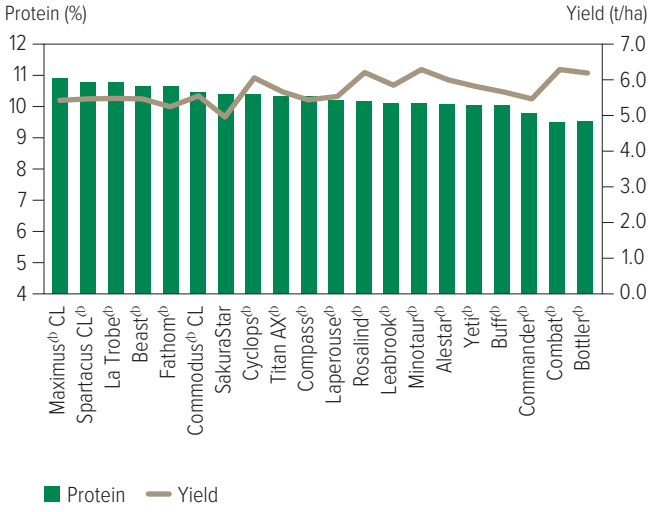
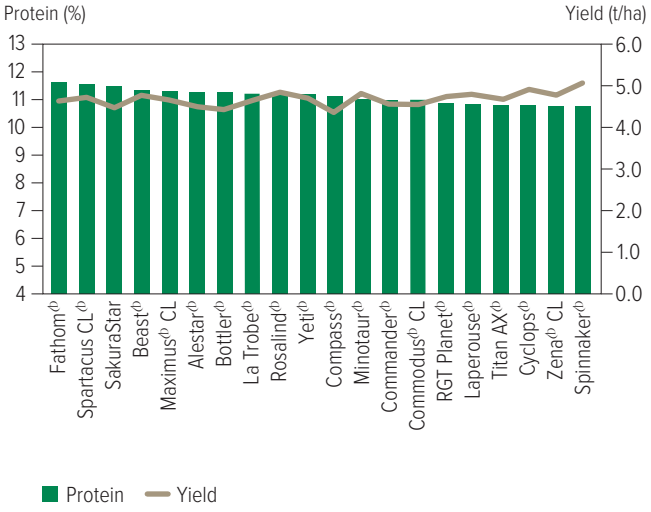


Figure 2: Protein (%) and yield (t/ha) comparisons for main season barley varieties from five NVT sites in Southern NSW in 2023.



Test weight comparisons

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

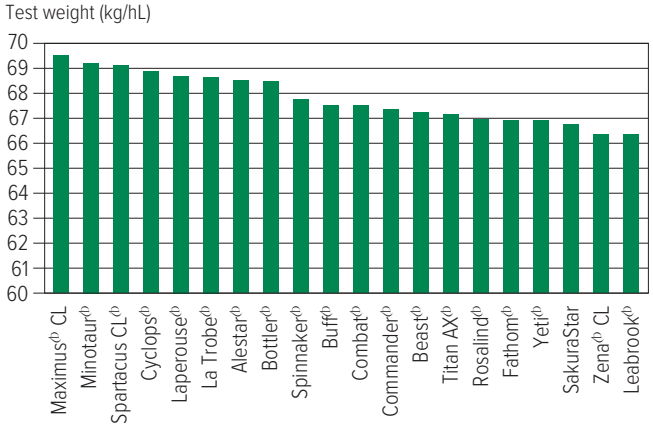
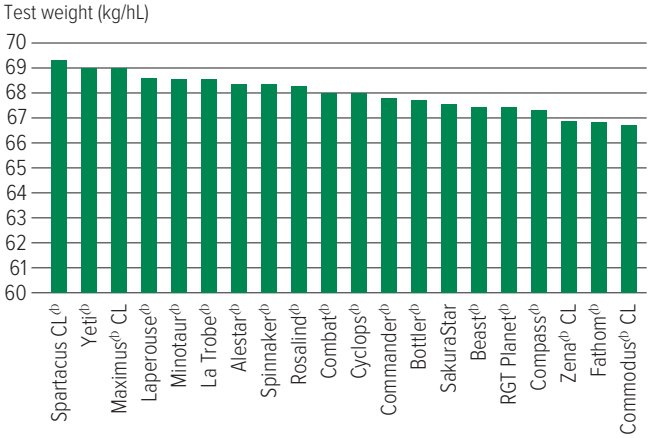


Figure 4: Test weight (kg/hL) comparisons for main season barley varieties from five NVT sites in Southern NSW in 2023.



Screenings comparisons

Figure 5: Screenings (<2.2mm) comparisons for main season barley varieties from five NVT sites in Southern NSW in 2022.

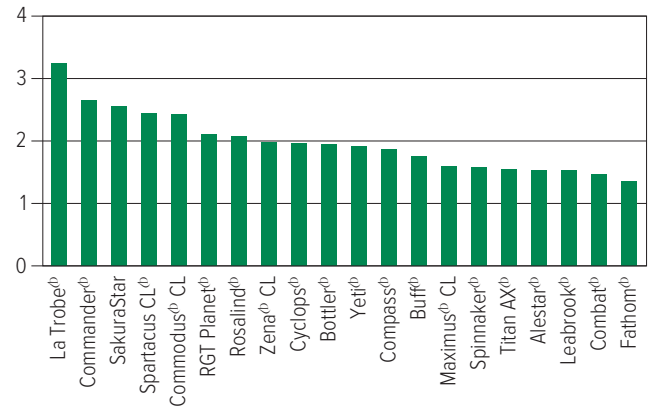
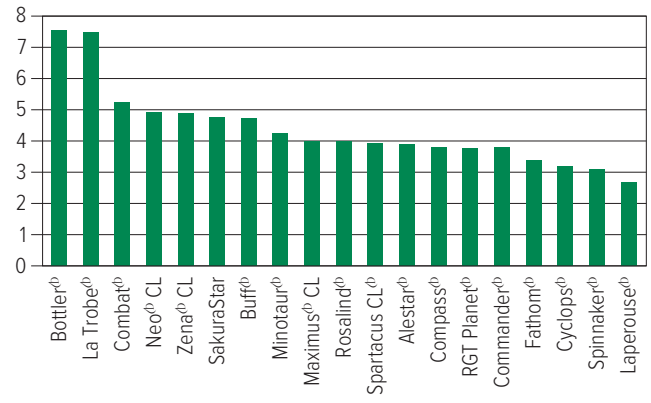


Figure 6: Screenings (<2.2mm) comparisons for main season barley varieties from five NVT sites in Southern NSW in 2023.



Retention comparisons

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

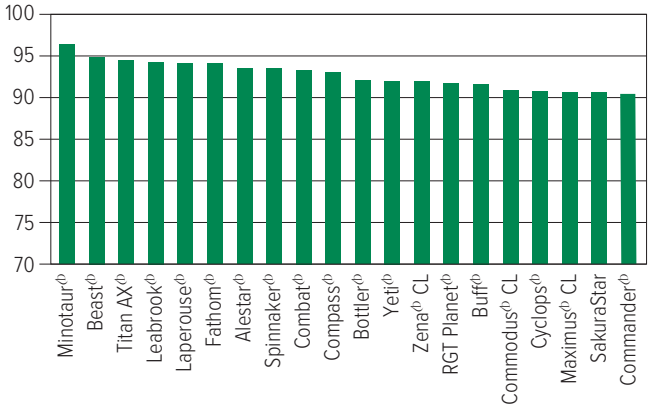
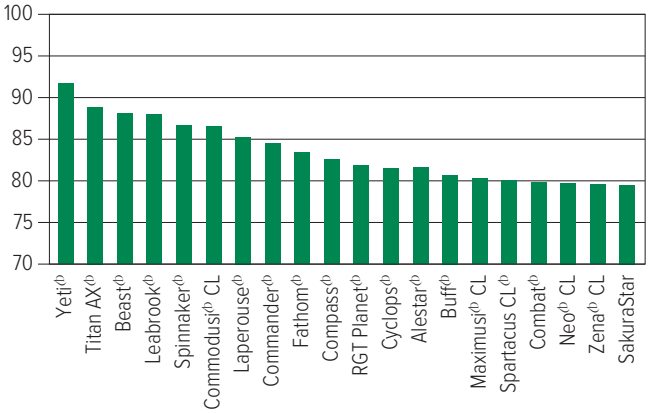


Figure 8: Retention (>2.5mm) comparisons for main season barley varieties from five NVT sites in Southern NSW in 2023.



Barley variety disease ratings – New South Wales

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

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

Table 6: Barley disease guide for New South Wales.

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

* ratings will be updated when available. Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible,
T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant,
(P) = provisional rating, - hyphen indicates a range, ^ line contains a few susceptible off types.

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]
Archer(Φ)	InterGrain	TBC	Variety description not supplied.
Kingbale(Φ)	InterGrain	TBC	Variety description not supplied.
Kultarr(Φ)	InterGrain	TBC	Variety description not supplied.
Wallaby(Φ)	InterGrain	TBC	Variety description not supplied.

* 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 – Southern New South Wales

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: Gerogery oat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.57	5.69	5.22	4.07	4.16
Archer(Ф)*					98
Wallaby(Ф)					95
Koala(Ф)	64	115	115	113	102
Williams(Ф)	94	112	109	110	100
Bannister(Ф)	88	106	112	110	105
13008-18				110	111
Bilby(Ф)	118	100	104	102	105
Kowari(Ф)	119	94	96	96	102
Mitika(Ф)	114	93	91	93	98
Durack(Ф)	115	77	80	82	94
Sowing date	**20 May**	**19 May**	**16 May**	**23 May**	**19 May**
Rainfall J–M (mm)	**85**	**157**	**204**	**403**	**283**
Rainfall A–O (mm)	**206**	**378**	**228**	**720**	**383**

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

Table 2: Merriwagga oat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		3.58	4.56	5.62	2.45
13008-18	No trial			107	114
Archer(Ф)*					99
Bannister(Ф)		108	107	107	101
Bilby(Ф)		111	104	101	110
Koala(Ф)		104	108	109	89
Williams(Ф)		97	103	109	101
Kowari(Ф)		104	99	97	107
Wallaby(Ф)					84
Mitika(Ф)		97	95	94	103
Durack(Ф)		86	86	88	101
Sowing date		**12 May**	**18 May**	**19 May**	**17 May**
Rainfall J–M (mm)		**170**	**144**	**133**	**160**
Rainfall A–O (mm)		**239**	**286**	**469**	**135**

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

Table 3: Wagga Wagga oat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.58	6.08	4.49	5.43	3.74
Archer(Ф)*					93
13008-18				105	110
Wallaby(Ф)					98
Bannister(Ф)	89	106	110	111	103
Bilby(Ф)	124	103	113	100	105
Koala(Ф)	59	112	103	117	101
Williams(Ф)	95	103	97	114	96
Kowari(Ф)	123	98	106	93	103
Mitika(Ф)	115	95	96	91	99
Durack(Ф)	112	81	84	78	95
Sowing date	**16 May**	**18 May**	**16 May**	**19 May**	**11 May**
Rainfall J–M (mm)	**81**	**123**	**267**	**229**	**188**
Rainfall A–O (mm)	**191**	**408**	**267**	**498**	**257**

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

Oat variety disease ratings – New South Wales

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

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

Table 4: Oat disease guide for New South Wales.

Variety	Stem rust*	Leaf rust (crown rust) (northern NSW)*	Leaf rust (crown rust) (southern NSW)*	Barley yellow dwarf virus (BYDV)	Septoria blotch	Red leather leaf	Bacterial blight
Archer(Φ)				MSS (P)	MRMS (P)	SVS (P)	MSS (P)
Bannister(Φ)				MS	MSS	MSS-SVS	S
Bilby(Φ)				S	S	MS	SVS
Brusher(Φ)				S	MSS	MS	SVS
Carrolup				SVS	MSS	SVS	MSS
Durack(Φ)				S	S	SVS	S
Echidna				MSS	SVS	MSS	S
Goldie(Φ)				MS	MS	SVS	S
Kingbale(Φ)				MS	MSS	S (P)	MSS (P)
Koala(Φ)				MSS	MSS	S	S
Kojonup(Φ)				MS	MSS	S	SVS
Kowari(Φ)				S	S	S	S
Kultarr(Φ)				MSS (P)	MS (P)	S (P)	MS (P)
Mitika(Φ)				SVS	SVS	SVS	S
Mulgara(Φ)				MSS	S/MS	SVS	MSS
Tungoo(Φ)				MSS	MRMS#	MRMS	S
Wallaby(Φ)				MS (P)	MS (P)	SVS (P)	MSS (P)
Wandering				MSS	MSS	S	S
Williams(Φ)				MSS	MSS	MS	MSS
Wintaroo				MS	MS#	S	S
Yallara(Φ)				S	MSS	SVS	S

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

* EPR amount is ex-GST, (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.

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

Canola variety yield performance – Southern New South Wales

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: Beckom med-high rainfall GLY.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.25	2.82	3.25	2.87	2.09
InVigor® R 4520P	110	108	108	106	106
Nuseed® Hunter TF				99	109
Nuseed® Eagle TF				114	103
InVigor® LR 4540P				94	109
Pioneer® 44Y30 RR			108	105	104
Nuseed® Raptor TF	109	101	106	101	105
Hyola® Regiment XC			106	92	110
PY323G					104
Pioneer® 44Y27 (RR)	111	97	109	95	104
PY422G					96
Sowing date	**15 Apr**	**24 Apr**	**5 May**	**24 Apr**	**26 Apr**
Rainfall J–M (mm)	**76**	**122**	**261**	**187**	**140**
Rainfall A–O (mm)	**128**	**366**	**276**	**450**	**192**

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

Table 2: Cootamundra med-high rainfall GLY.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.52	3.91	3.59	2.14	3.21
Hyola® Regiment XC			110	122	111
Pioneer® 45Y28 RR		107	108	118	107
Nuseed® Hunter TF				111	106
InVigor® R 4520P	117	107	109	100	109
Nuseed® Eagle TF			107	117	106
InVigor® LR 4540P				98	105
Nuseed® Raptor TF	103		104	117	101
PY525G					106
Pioneer® 44Y30 RR		103	105	105	102
PY323G					97
Sowing date	**29 Apr**	**17 Apr**	**23 Apr**	**2 May**	**27 Apr**
Rainfall J–M (mm)	**168**	**174**	**301**	**188**	**153**
Rainfall A–O (mm)	**189**	**485**	**425**	**640**	**292**

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

Table 3: Gerogery med-high rainfall GLY.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.02	3.13	3.37	2.18	3.22
InVigor® R 4520P	123	131	104	109	107
InVigor® LR 4540P				108	100
Nuseed® Hunter TF				108	103
Pioneer® 44Y30 RR		113	102	111	101
Pioneer® 45Y28 RR		98	108	110	108
Nuseed® Eagle TF			107	110	107
InVigor® R 4022P	113	118	97	98	98
Hyola® Regiment XC			112	93	109
PY525G					111
PY422G					103
Sowing date	**4 May**	**27 Apr**	**30 Apr**	**23 Apr**	**30 Apr**
Rainfall J–M (mm)	**85**	**157**	**204**	**375**	**283**
Rainfall A–O (mm)	**206**	**378**	**228**	**697**	**383**

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

Table 4: Lockhart med-high rainfall GLY.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	0.58	3.49	2.77	3.51	2.70
InVigor® R 4520P	133	103	101	111	110
Nuseed® Eagle TF				110	105
PY422G					108
Pioneer® 44Y30 RR			97	105	105
Nuseed® Hunter TF			98	103	102
InVigor® LR 4540P				101	104
Hyola® Regiment XC			108	99	92
PY424GC					102
Nuseed® Raptor TF	104	102	100	98	96
InVigor® R 4022P	125	97	96	97	101
Sowing date	**24 Apr**	**23 Apr**	**12 May**	**26 Apr**	**27 Apr**
Rainfall J–M (mm)	**60**	**250**	**255**	**383**	**153**
Rainfall A–O (mm)	**185**	**446**	**239**	**371**	**232**

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

Table 5: Temora med-high rainfall GLY.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**0.25**	**3.32**	**3.08**	**1.74**	**2.04**
Hyola® Regiment XC			108	107	114
Pioneer® 45Y28 RR			106	111	106
PY525G					98
Nuseed® Eagle TF				110	104
InVigor® R 4520P	138	104	105	111	109
Nuseed® Hunter TF				106	111
Nuseed® Raptor TF	107	103	104	101	105
InVigor® LR 4540P				103	110
Pioneer® 44Y30 RR			103	104	105
DG Drummond TF			100	104	97
Sowing date	**1 May**	**21 Apr**	**7 May**	**3 May**	**24 Apr**
Rainfall J–M (mm)	**162**	**179**	**303**	**254**	**229**
Rainfall A–O (mm)	**138**	**429**	**331**	**610**	**219**

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

Table 6: Wagga Wagga med-high rainfall GLY.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		**3.08**	**4.20**	**3.03**	**3.12**
InVigor® R 4520P	No trial	107	108	110	108
Pioneer® 45Y28 RR		110	108	108	104
Hyola® Regiment XC			109	105	102
PY525G					105
Nuseed® Eagle TF			107	107	103
Nuseed® Hunter TF				106	103
InVigor® LR 4540P				105	104
Pioneer® 44Y30 RR		100	106	104	102
PY422G					102
DG Drummond TF			100	102	101
Sowing date		**17 Apr**	**21 Apr**	**22 Apr**	**20 Apr**
Rainfall J–M (mm)		**123**	**267**	**229**	**188**
Rainfall A–O (mm)		**408**	**267**	**498**	**257**

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

Table 7: Oaklands low-med rainfall GLY.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		**3.23**	**3.67**	**2.62**	**2.51**
Nuseed® Hunter TF	Trial failed		108	109	107
InVigor® LR 4540P				112	104
PY424GC					103
InVigor® R 4520P		101	108	112	102
Pioneer® 44Y30 RR			103	108	103
Nuseed® Raptor TF		105	100	109	103
Pioneer® 44Y27 (RR)		103	103	105	100
Hyola® Regiment XC			102		105
InVigor® R 4022P		99	102	103	98
PY323G					101
Sowing date	**1 May**	**22 Apr**	**27 Apr**	**21 Apr**	**24 Apr**
Rainfall J–M (mm)	**28**	**197**	**125**	**196**	**99**
Rainfall A–O (mm)	**115**	**365**	**231**	**482**	**258**

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

Table 8: Beckom med-high rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	**0.77**	**2.87**	**3.14**	**2.90**	**1.91**
PY421C					113
Pioneer® 45Y95 (CL)				125	110
Pioneer® 44Y94 CL		110	112	122	109
Hyola® Continuum CL				115	104
Hyola® Solstice CL			115	86	119
Pioneer® 43Y92 (CL)	111	101	105	100	103
Hyola® Equinox CL		100	108		
Nuseed® Ceres IMI			112	76	110
PY520TC				110	91
VICTORY® V75-03CL	79	93	91		91
Sowing date	**15 Apr**	**24 Apr**	**5 May**	**24 Apr**	**26 Apr**
Rainfall J–M (mm)	**76**	**122**	**261**	**187**	**140**
Rainfall A–O (mm)	**128**	**366**	**276**	**450**	**192**

Special thanks to 2023 trial cooperator, O'Hare.
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 9: Cootamundra med-high rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.55	3.94	3.22		3.18
Hyola® Solstice CL				Compromised trial	116
PY421C					116
Pioneer® 45Y95 (CL)	116		117		113
Pioneer® 44Y94 CL	113	108	113		108
Hyola® Equinox CL		107	108		
Pioneer® 45Y93 CL	102	106	108		107
Hyola® Continuum CL					102
Pioneer® 44Y90 (CL)	103	102			
PY520TC					97
VICTORY® V75-03CL	84	91	88		90
Sowing date	**29 Apr**	**17 Apr**	**23 Apr**	**2 May**	**27 Apr**
Rainfall J–M (mm)	**168**	**174**	**301**	**188**	**153**
Rainfall A–O (mm)	**189**	**485**	**425**	**640**	**292**

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

Table 10: Gerogery med-high rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.01	2.95	3.27	2.21	3.15
PY421C				122	116
Pioneer® 45Y95 (CL)	115		113	122	114
Pioneer® 44Y94 CL	112	119	108	125	108
Pioneer® 45Y93 CL	101	118	106	120	112
Hyola® Solstice CL				96	111
Pioneer® 44Y90 (CL)	103	112			
Hyola® Continuum CL				117	103
Hyola® Equinox CL		90	107		
PY520TC				96	102
VICTORY® V75-03CL	81	85	92		92
Sowing date	**4 May**	**27 Apr**	**30 Apr**	**23 Apr**	**30 Apr**
Rainfall J–M (mm)	**85**	**157**	**204**	**375**	**283**
Rainfall A–O (mm)	**206**	**378**	**228**	**697**	**383**

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

Table 11: Lockhart med-high rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	0.66	3.48	2.83	3.60	2.60
PY421C					117
Pioneer® 45Y95 (CL)			106	120	113
Pioneer® 44Y94 CL		108	100	116	113
Hyola® Continuum CL				109	106
Hyola® Solstice CL			106	98	91
PY520TC				104	102
Pioneer® 43Y92 (CL)	111	100	98	100	100
Hyola® Equinox CL		99	102		
VICTORY® V75-03CL	77	95	97		95
Nuseed® Ceres IMI				85	87
Sowing date	**24 Apr**	**23 Apr**	**12 May**	**26 Apr**	**27 Apr**
Rainfall J–M (mm)	**60**	**250**	**255**	**383**	**153**
Rainfall A–O (mm)	**185**	**446**	**239**	**371**	**232**

Special thanks to 2023 trial cooperator.
Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties have not been included in this trial, but have been tested in other herbicide trials at this location: Hyola® 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 12: Temora med-high rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	0.28	3.30	3.07	1.84	1.94
Hyola® Solstice CL				109	124
PY421C				122	117
Pioneer® 45Y95 (CL)			110	120	113
Pioneer® 44Y94 CL	119	106	108	115	110
Pioneer® 45Y93 CL	95		103	117	100
Hyola® Equinox CL		107	106		
Hyola® Continuum CL				107	103
Pioneer® 44Y90 (CL)	101	102			
PY520TC				101	90
VICTORY® V75-03CL	66	91	93		88
Sowing date	**1 May**	**21 Apr**	**7 May**	**3 May**	**24 Apr**
Rainfall J–M (mm)	**162**	**179**	**303**	**254**	**229**
Rainfall A–O (mm)	**138**	**429**	**331**	**610**	**219**

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

Table 13: Wagga Wagga med-high rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.37	3.43	3.63	2.93	2.69
PY421C				120	115
Pioneer® 45Y95 (CL)	108		118	117	110
Hyola® Solstice CL				108	105
Pioneer® 44Y94 CL	110	107	117	113	107
Pioneer® 45Y93 CL	92	112	107	115	110
Hyola® Equinox CL		103	108		
Hyola® Continuum CL				105	102
Nuseed® Ceres IMI			106		
PY520TC				99	99
VICTORY® V75-03CL	83	92	88		93
Sowing date	**18 Apr**	**17 Apr**	**21 Apr**	**22 Apr**	**20 Apr**
Rainfall J–M (mm)	**81**	**123**	**267**	**229**	**188**
Rainfall A–O (mm)	**191**	**408**	**267**	**498**	**257**

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

Table 14: Oaklands low-med rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		3.26	3.85	2.83	2.35
PY421C	Trial failed				111
Pioneer® 44Y94 (CL)			109	116	110
Pioneer® 44Y90 CL		101			
Hyola® Continuum CL				99	104
Hyola® Solstice CL			97		113
Pioneer® 43Y92 (CL)		101	99	100	103
Hyola® Equinox CL				87	
Nuseed® Ceres IMI			98	88	101
PY520TC					92
VICTORY® V7002CL		93	93		
Sowing date	**1 May**	**22 Apr**	**27 Apr**	**21 Apr**	**24 Apr**
Rainfall J–M (mm)	**28**	**197**	**125**	**196**	**99**
Rainfall A–O (mm)	**115**	**365**	**231**	**482**	**258**

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

Table 15: Beckom med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.14	2.57	2.84	2.51	1.94
Hyola® Blazer TT		114	111	129	109
HyTTec® Trifecta		114	113	122	112
Hyola® Defender CT				134	103
PY520TC				129	105
HyTTec® Trophy	121	109	114	112	111
SF Dynatron TT	112	109	110	119	106
HyTTec® Trident	130	102	121	94	114
RGT Baseline® TT			98	133	101
InVigor® T 4511			110	105	108
InVigor® T 4510	116	104	112	101	108
Sowing date	**15 Apr**	**24 Apr**	**5 May**	**24 Apr**	**26 Apr**
Rainfall J–M (mm)	**76**	**122**	**261**	**187**	**140**
Rainfall A–O (mm)	**128**	**366**	**276**	**450**	**192**

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

Table 16: Cootamundra med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.45	3.63	3.09	2.06	2.97
HyTTec® Trifecta	120	115	119	130	116
Hyola® Blazer TT		112	117	126	112
HyTTec® Trophy	116	110	114	125	109
PY520TC			112	122	108
SF Dynatron TT	111	107	111	113	107
InVigor® T 4511			110	113	107
RGT Baseline® TT			110	112	110
Hyola® Defender CT				118	106
InVigor® T 4510	113	106	108	110	105
InVigor® T 6010	106	107	108	102	110
Sowing date	**29 Apr**	**17 Apr**	**23 Apr**	**2 May**	**27 Apr**
Rainfall J–M (mm)	**168**	**174**	**301**	**188**	**153**
Rainfall A–O (mm)	**189**	**485**	**425**	**640**	**292**

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

Table 17: Gerogery med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.61	2.62	3.03	2.04	2.67
HyTTec® Trifecta	124	113	116	119	117
Hyola® Blazer TT		118	113	125	115
SF Dynatron TT		121	106	120	108
Hyola® Defender CT				127	111
PY520TC			110	123	112
RGT Baseline® TT			108	117	115
InVigor® T 6010	111	122	106	107	114
HyTTec® Trophy	118	108	111	117	109
RGT Capacity TT	115	121	105	109	108
InVigor® T 4510	118	114	105	110	103
Sowing date	**4 May**	**27 Apr**	**30 Apr**	**23 Apr**	**30 Apr**
Rainfall J–M (mm)	**85**	**157**	**204**	**375**	**283**
Rainfall A–O (mm)	**206**	**378**	**228**	**697**	**383**

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

Table 18: Lockhart med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	0.22	3.32	2.59	3.09	2.39
RGT Baseline® TT				125	117
Hyola® Blazer TT	145	111	106	123	114
HyTTec® Trifecta		111	108	120	110
Hyola® Defender CT				123	116
PY520TC				121	113
SF Dynatron TT	154	106	101	115	112
RGT Capacity TT	136	104	103	112	109
HyTTec® Trophy	171	107	101	110	105
DG Bidgee TT(ϕ)			109	113	106
InVigor® T 4511			101	106	103
Sowing date	**24 Apr**	**23 Apr**	**12 May**	**26 Apr**	**27 Apr**
Rainfall J–M (mm)	**60**	**250**	**255**	**383**	**153**
Rainfall A–O (mm)	**185**	**446**	**239**	**371**	**232**

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

Table 19: Temora med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	0.28	2.97	2.69	1.56	1.89
HyTTec® Trifecta		123	113	122	116
Hyola® Blazer TT		117	111	122	112
RGT Baseline® TT				121	102
HyTTec® Trophy	130	109	110	113	113
PY520TC				118	106
InVigor® T 6010	110	119	103	117	103
Hyola® Defender CT				118	103
InVigor® T 4511			107	109	110
SF Dynatron TT	117	105	107	114	108
RGT Capacity TT	118	108	104	111	106
Sowing date	**1 May**	**21 Apr**	**7 May**	**3 May**	**24 Apr**
Rainfall J–M (mm)	**162**	**179**	**303**	**254**	**229**
Rainfall A–O (mm)	**138**	**429**	**331**	**610**	**219**

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

Table 20: Wagga Wagga med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.35	2.81	3.69	2.88	2.69
HyTTec® Trifecta	113	119	119	116	110
Hyola® Blazer TT	108	115	117	116	110
HyTTec® Trophy	113	108	117	110	105
RGT Baseline® TT			107	115	110
PY520TC			113	113	107
SF Dynatron TT	110	107	112	111	107
InVigor® T 6010	101	116	103	113	110
Hyola® Defender CT				113	107
RGT Capacity TT	109	109	106	109	107
InVigor® T 4511			110	107	104
Sowing date	**18 Apr**	**17 Apr**	**21 Apr**	**22 Apr**	**20 Apr**
Rainfall J–M (mm)	**81**	**123**	**267**	**229**	**188**
Rainfall A–O (mm)	**191**	**408**	**267**	**498**	**257**

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

Table 21: Oaklands low-med rainfall TT.					
Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		3.17	3.36	2.44	2.34
Hyola® Blazer TT	Trial failed	108		117	112
SF Dynatron TT		108		117	111
HyTTec® Trident		108	112	111	112
HyTTec® Trophy		107	109	109	111
Hyola® Defender CT				114	107
HyTTec® Velocity		108		99	109
InVigor® LT 4530P		102	107	116	100
InVigor® T 4510		104	108	108	104
Hyola® Enforcer CT		105		106	111
InVigor® T 4511			104	104	106
Sowing date	**30 Apr**	**22 Apr**	**27 Apr**	**21 Apr**	**24 Apr**
Rainfall J–M (mm)	**28**	**197**	**125**	**196**	**99**
Rainfall A–O (mm)	**115**	**365**	**231**	**482**	**258**

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

Australian canola variety disease ratings

The following table contains varietal ratings for blackleg disease of canola.
These ratings are updated twice a year by crop pathologists and were released in autumn 2024.
Varieties are listed in alphabetical order and disease ratings are colour-coded to match resistance and susceptibility ratings.

Table 22: Canola disease guide – autumn 2024 ratings.

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

The autumn 2024 blackleg disease ratings will be added to this report when they become available. The most recent published ratings are available using the Blackleg Management Guide or the NVT Disease Ratings tool.

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

Table 22: Canola disease guide – autumn 2024 ratings (continued).				
Variety	2024 autumn blackleg rating			Type
	Bare	Fluopyram (e.g. ILeVO®)	Pydiflumetofen (e.g. Saltro®)	
IMIDAZOLINONE AND TRIAZINE-TOLERANT VARIETIES				
GLYPHOSATE-TOLERANT VARIETIES				
GLYPHOSATE AND IMIDAZOLINONE-TOLERANT VARIETIES				
GLUFOSINATE AND TRIAZINE-TOLERANT VARIETIES				

The autumn 2024 blackleg disease ratings will be added to this report when they become available. The most recent published ratings are available using the Blackleg Management Guide or the NVT Disease Ratings tool.

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

CHICKPEA

Chickpea variety yield performance – Southern New South Wales

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: Rankins Springs desi chickpea.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		**2.14**	**2.27**	**2.08**	**1.21**
CBA Captain(Φ)	No trial	105	102	117	100
PBA Striker(Φ)		101	113	89	110
Neelam(Φ)		99		99	103
PBA Maiden(Φ)		97	101	99	106
PBA Slasher(Φ)		102	109	85	102
Genesis™ 090				112	108
PBA Seamer(Φ)		92	78	92	88
PBA Boundary(Φ)		87	80	84	97
Sowing date		**8 May**	**18 May**	**9 May**	**9 May**
Rainfall J–M (mm)		**151**	**173**	**275**	**125**
Rainfall A–O (mm)		**280**	**291**	**449**	**220**

Special thanks to 2023 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 – New South Wales

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

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

Table 2: Chickpea disease guide for New South Wales.

Variety	Ascochyta blight (pathogen group 1 – south)	Ascochyta blight (pathogen group 2 – north)	Phytophthora root rot*	RLN resistance (*Pratylenchus neglectus*)*	RLN tolerance (*Pratylenchus neglectus*)*	RLN resistance (*Pratylenchus thornei*)*	RLN tolerance (*Pratylenchus thornei*)
DESI							
CBA Captain[Φ]	S	MS					MT
Genesis™ 836	S	S					MT
Kyabra[Φ]	VS	VS					MT
Neelam[Φ]	S	S					MTMI
PBA Boundary[Φ]	S	S					MT
PBA Drummond[Φ]	VS	VS					MT
PBA HatTrick[Φ]	S	S					MTMI
PBA Maiden[Φ]	S	S					MII
PBA Pistol[Φ]	S	VS					MII
PBA Seamer[Φ]	S	MS					MTMI
PBA Slasher[Φ]	S	S					MT
PBA Striker[Φ]	S	S					TMT
KABULI							
Almaz[Φ]	S	MS					IVI
Genesis™ 090	MS	MS					MII
Genesis™ Kalkee	S	S					MI
PBA Magnus[Φ]	S	MS					I
PBA Monarch[Φ]	S	MS					MII
PBA Royal[Φ]	MS	MS					MII

* ratings will be updated when available. Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible,
T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant.

FABA BEAN

Faba bean variety yield performance – Southern New South Wales

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: Lockhart faba bean.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		4.29	4.73	3.27	1.89
PBA Nasma(Ф)	No trial				126
FBA Ayla(Ф)					115
PBA Marne(Ф)		97	105	100	105
PBA Samira(Ф)		99	95	109	93
PBA Amberley(Ф)		97	92		90
PBA Zahra(Ф)		92	93		93
Fiesta VF		97	93	95	92
Farah(Ф)		94	92	93	91
PBA Rana(Ф)			84	84	78
PBA Bendoc(Ф)*		87	90	78	94
Sowing date		**21 April**	**26 April**	**26 May**	**28 April**
Rainfall J–M (mm)		**142**	**248**	**383**	**174**
Rainfall A–O (mm)		**401**	**343**	**371**	**217**

Special thanks to 2023 trial cooperator.

* 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 – New South Wales

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

Selected varieties of most relevance to New South Wales 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 New South Wales.

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

* ratings will be updated when available. Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, (P) = provisional rating.

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[Φ]	Agriculture Victoria	TBC	APB Bondi[Φ] (tested as OZP1903) is a Kaspa-type pea with mid-flowering and mid-maturity. APB Bondi[Φ] 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, [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

Field pea variety yield performance – Southern New South Wales

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: Brocklesby field pea.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	0.66	2.34	2.36	1.55	2.71
APB Bondi[Ф]		116	109	104	118
PBA Butler[Ф]	92	112	109	107	114
PBA Pearl	118	96	109	128	102
PBA Taylor[Ф]	90	114	104	95	114
PBA Noosa[Ф]	94	102	105	103	104
Kaspa	84	107	102	92	106
PBA Wharton[Ф]	101	104	93	86	101
Sturt	113	92	95	104	91
PBA Oura[Ф]	116	92	94	103	90
PBA Percy	121	83	96	114	83
Sowing date	**28 May**	**28 May**	**29 May**	**1 June**	**2 June**
Rainfall J–M (mm)	**76**	**142**	**151**	**245**	**247**
Rainfall A–O (mm)	**211**	**401**	**365**	**514**	**417**

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

Table 2: Deniliquin field pea.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	0.55	1.32	1.92	1.06	1.56
PBA Pearl	107	86	107	152	93
PBA Butler[Ф]	100	109	104	108	109
APB Bondi[Ф]		107	95	113	110
PBA Taylor[Ф]	106	115	95	92	112
PBA Percy	108	93	113	116	91
Sturt	112	103	106	102	98
PBA Oura[Ф]	116	100	101	106	96
Kaspa	89	109	102	79	107
PBA Noosa[Ф]	88	92	99	108	98
PBA Wharton[Ф]	115	108	88	85	104
Sowing date	**27 May**	**27 May**	**28 May**	**25 May**	**30 May**
Rainfall J–M (mm)	**49**	**122**	**90**	**73**	**39**
Rainfall A–O (mm)	**152**	**308**	**249**	**471**	**238**

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

Table 3: Rankins Springs field pea.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		2.48		2.60	0.99
PBA Pearl	No trial	111	Compromised trial	128	99
PBA Butler[Ф]		107		106	112
PBA Percy		98		121	91
APB Bondi[Ф]		107		100	115
Sturt		96		109	100
PBA Noosa[Ф]		105		100	95
PBA Oura[Ф]		95		106	100
PBA Taylor[Ф]		101		93	115
Kaspa		100		92	102
PBA Wharton[Ф]		93		84	109
Sowing date		**8 May**	**18 May**	**19 May**	**18 May**
Rainfall J–M (mm)		**151**	**173**	**275**	**125**
Rainfall A–O (mm)		**280**	**291**	**449**	**220**

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

Table 4: Temora field pea.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	0.61	2.20	2.07	1.38	1.33
PBA Pearl	102	109	127	136	105
APB Bondi[Ф]		118	116	120	107
PBA Butler[Ф]	77	112	113	115	106
PBA Noosa[Ф]	100	105	109	114	100
PBA Taylor[Ф]	104	111	102	101	105
PBA Wharton[Ф]	149	100	87	83	100
Kaspa	69	101	96	94	100
PBA Oura[Ф]	117	93	93	90	99
Sturt	91	92	93	88	100
PBA Percy	76	87	98	95	98
Sowing date	**29 May**	**19 May**	**25 May**	**25 May**	**22 May**
Rainfall J–M (mm)	**162**	**179**	**303**	**254**	**229**
Rainfall A–O (mm)	**138**	**429**	**331**	**610**	**219**

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

Field pea variety disease ratings – New South Wales

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

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

Table 5: Field pea disease guide for New South Wales.

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

* ratings will be updated when available. Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, (P) = provisional rating, ( ) show outlier.

LENTIL

New lentil varieties

The following information is for lentil varieties released in the 12 months to the date when the MET analysis was published on NVT online. Please go to nvt.grdc.com.au 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 – Southern New South Wales

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: Wagga Wagga lentil.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		**2.38**	**0.88**	**3.54**	**2.17**
GIA Thunder(Ɗ)*	No trial	125	124	116	116
PBA Jumbo2(Ɗ)		130	114	102	105
ALB Terrier(Ɗ)			116	112	109
GIA Lightning(Ɗ)*		97	106	112	112
PBA KelpieXT(Ɗ)*		131	104	90	98
PBA Ace(Ɗ)		98	104	101	110
PBA HighlandXT(Ɗ)*		106	98	98	99
PBA Hurricane XT(Ɗ)*		102	101	98	100
GIA Leader(Ɗ)*		97	103	100	101
PBA Bolt(Ɗ)		89	88	95	97
Sowing date		**25 May**	**21 May**	**23 May**	**18 May**
Rainfall J–M (mm)		**123**	**267**	**229**	**188**
Rainfall A–O (mm)		**408**	**267**	**498**	**257**

Special thanks to 2023 trial cooperator, Hart Bros Seeds.

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

Lentil variety disease ratings – New South Wales

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

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

Table 2: Lentil disease guide for New South Wales.

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

* ratings will be updated when available. Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, (P) = provisional rating.

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]
Rosemont(Þ)	Australian Grain Technologies	TBC	A very high yielding alternative to PBA Jurien(Þ), Coyote(Þ) and Mandelup(Þ). 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(Þ). Taller plant height, may improve harvestability. Moderately resistant to stem Phomopsis. Good CMV resistance. Slightly slower maturity relative to PBA Jurien(Þ), slightly quicker than Coyote(Þ).

* 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

Lupin variety yield performance – Southern New South Wales

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: Ariah Park narrow-leaf lupin.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	0.17	1.33	2.33	3.10	0.77
Coyote[Φ]		132	110	98	118
PBA Bateman[Φ]	111	130	97	111	112
PBA Gunyidi[Φ]	106	127	96	109	109
Jenabillup[Φ]	91	117		112	103
Rosemont[Φ]				102	
PBA Barlock[Φ]	74	101	87	119	97
Lawler[Φ]			106	99	
PBA Jurien[Φ]	78	91	91	118	98
Mandelup[Φ]	95	96	99	103	99
Wonga	78	112	87	103	94
Sowing date	**1 May**	**22 Apr**	**6 May**	**10 May**	**22 May**
Rainfall J–M (mm)	**147**	**124**	**246**	**187**	**256**
Rainfall A–O (mm)	**121**	**354**	**282**	**449**	**229**

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

Table 2: Harden narrow-leaf lupin.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	0.63	4.04	3.94	3.93	2.03
Coyote[Φ]		119	94	106	101
PBA Bateman[Φ]	113	114	100	103	108
PBA Gunyidi[Φ]	110	112	102	100	107
Jenabillup[Φ]	96	106		99	108
Rosemont[Φ]				108	
PBA Barlock[Φ]	79	98	106	101	111
PBA Jurien[Φ]	79	96	103	106	110
Lawler[Φ]			96	105	
Mandelup[Φ]	95	98	100	102	102
Wonga	89	99	108	87	102
Sowing date	**30 Apr**	**28 Apr**	**8 May**	**7 May**	**10 May**
Rainfall J–M (mm)	**282**	**107**	**363**	**197**	**156**
Rainfall A–O (mm)	**160**	**569**	**390**	**616**	**218**

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

Table 3: Henty/Wagga Wagga narrow-leaf lupin.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	0.69			2.31	1.98
PBA Bateman[Φ]	104	Trial failed	Compromised trial	114	110
PBA Gunyidi[Φ]	103			114	106
Jenabillup[Φ]	94			116	104
Coyote[Φ]				100	112
PBA Barlock[Φ]	80			119	104
PBA Jurien[Φ]	80			113	107
Quilinock	87			112	
Rosemont[Φ]				97	
Wonga	94			113	90
Mandelup[Φ]	95			102	101
Sowing date	**7 May**	**16 May**	**14 May**	**29 May**	**8 May**
Rainfall J–M (mm)	**37**	**177**	**222**	**229**	**188**
Rainfall A–O (mm)	**247**	**404**	**282**	**498**	**257**

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

Lupin variety disease ratings – New South Wales

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

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

Table 4: Lupin disease guide for New South Wales.

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

* ratings will be updated when available. Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, (P) = provisional rating.

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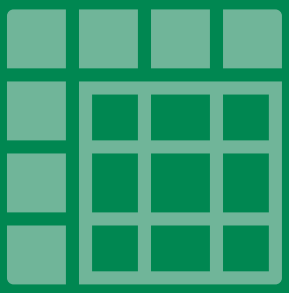

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