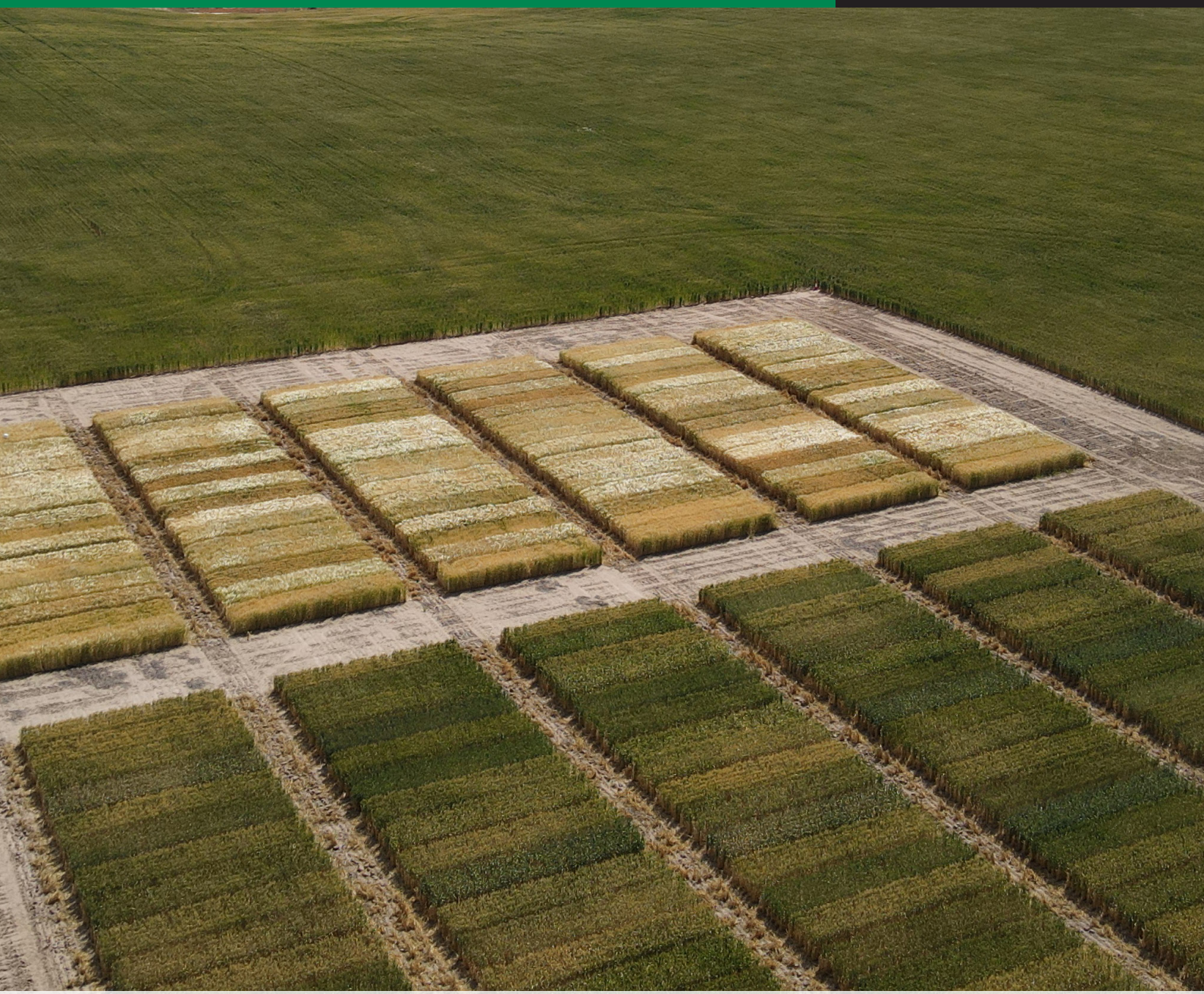
NVT
HARVEST REPORT

GRDC NATIONAL VARIETY TRIALS™

REVISED MAY 2023



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COVER: NVT barley and wheat, Lake Grace, WA in 2022.
PHOTO: Isabelle Rogers

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grdc.com.au/harvestreports

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
grdc.com.au/nvt-crop-sowing-guides

INTRODUCTION

This ***NVT Harvest Report*** 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 2022 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 acknowledges that an ongoing project of this type would not be possible without the cooperation of growers prepared to contribute sites and who often assist with the management of trials on their property.

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 Statistics for the Australian Grains Industry (SAGI) program.

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 this **Southern New South Wales** Harvest Report, 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.

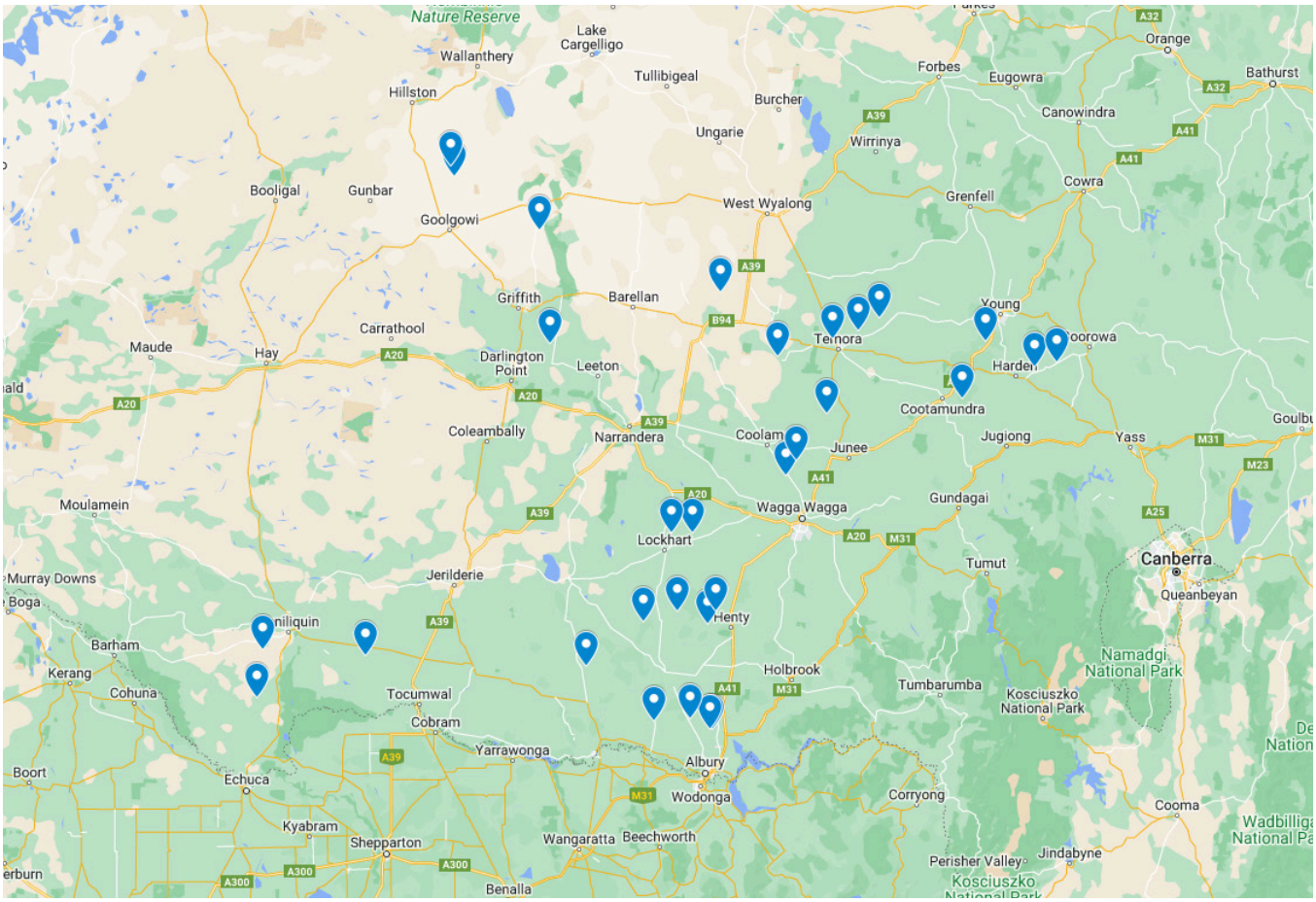
Trials listed as compromised are not suitable for making variety decisions. Results can be found in the Quarantined trial reports.

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

NVT SITE LOCATIONS – Southern New South Wales

Figure 1: Locality of NVT trial sites in Southern New South Wales from 2018 to 2022.

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.

Variety	Variety owner	Grain classification	End point royalty* ($)	Comments supplied by variety owner
Brumby(Ф)	InterGrain	Milling	3.50	Mid-maturing, with a slightly later time of flowering than Scepter(Ф), although earlier than RockStar(Ф). Well-suited to May sowing.
Kingston(Ф)	BASF Australia	Milling	3.55	Exhibits outstanding lodging resistance with a plant type that produces low residue to manage the following year.
LRPB Anvil(Ф)	LongReach Plant Breeders Pty Ltd	Milling	4.25	Clearfield® Plus wheat with two-gene tolerance to label rates of Intervix® herbicide with quick maturity and bold early growth. Fast grain fill with large grain, suited to low to medium-rainfall areas. Bred by Grains Innovation Australia, developed by LongReach Plant Breeders and marketed by Pacific Seeds.
LRPB Scotch(Ф)	LongReach Plant Breeders Pty Ltd	Milling	None provided.	Mid-slow spring maturing suited for high-yielding soft wheat production systems. Medium-short height with good straw strength well-suited for irrigated production.
Rebel 65	Rebel Seeds	Milling	None provided.	None provided.
Rebel Rat	Rebel Seeds	Feed	None provided.	A mid-maturity variety similar to Borlaug 100(Ф). Upright, grows to about a metre, strong resistance to lodging. Replacement for crown rot susceptible varieties. Large seed, high starch suitable for livestock processing.
Reilly(Ф)	BASF Australia	Milling	3.55	Shows yield stability in tough conditions. Provides new genetics for Australian growers.
RGT Waugh(Ф)	RAGT	Feed	None provided.	An awned, white-grained winter wheat. Mid-slow maturing variety for medium to high-rainfall zones and irrigation. Suitable for dual-purpose applications when early sowing is possible. Excellent standability.
Stockade(Ф)	LongReach Plant Breeders Pty Ltd	Milling	None provided.	Very slow spring maturity similar to RGT Accroc(Ф). Suitable for high-rainfall zones of south-west Victoria, south-east South Australia and Tasmania as main target area but will have relevance to north-east Victoria and south-east slopes. Growth habit with high production canopy with steady biomass accumulation over season based on its slower maturity. Potential variety replacement for RGT Accroc(Ф) and LRPB Beaufort(Ф) feed wheats.

* EPR amount is ex-GST, (Ф) denotes Plant Breeder's Rights apply.

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

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	2018	2019	2020	2021	2022
Mean yield (t/ha)	1.08		4.31	5.31	4.34
Calibre(Φ)		Trial failed	108	109	101
Brumby(Φ)				106	104
Rebel Rat					106
Denison(Φ)			107	106	101
Beckom(Φ)	108		109	103	105
Boree(Φ)			104	108	100
Vixen(Φ)	123		104	109	98
Sunmaster(Φ)			112	100	109
Cutlass(Φ)	103		109	101	107
LRPB Beaufort(Φ)	94		103	100	
IMI-TOLERANT					
Sunblade CL Plus(Φ)			104	102	103
LRPB Anvil(Φ)				107	94
Valiant(Φ) CL Plus			99	99	103
Sowing date	**7 Jun**	**14 May**	**18 May**	**13 May**	**23 May**
Rainfall J–M (mm)	**47**	**76**	**122**	**261**	**187**
Rainfall A–O (mm)	**128**	**128**	**366**	**276**	**450**

Special thanks to 2022 trial cooperator, O'Hare.
Learn more via the NVT Long Term Yield Reporter

Table 2: Deniliquin main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			2.28	3.07	7.00
Sunmaster(Φ)	No trial	No trial	117	100	113
RGT Zanzibar			91	94	121
Beckom(Φ)			115	104	107
Brumby(Φ)				108	104
Calibre(Φ)			121	111	101
Scepter(Φ)			115	106	104
RockStar(Φ)			98	106	108
Kingston(Φ)					104
Rebel Rat					102
Ballista(Φ)			100	107	106
IMI-TOLERANT					
Sunblade CL Plus(Φ)			108	102	109
Valiant(Φ) CL Plus			90	96	104
Sheriff CL Plus(Φ)			108	103	95
Sowing date			**13 May**	**28 May**	**10 May**
Rainfall J–M (mm)			**122**	**90**	**74**
Rainfall A–O (mm)			**308**	**249**	**456**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 3: Galong main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		1.00	6.13	6.98	8.56
RGT Zanzibar	Compromised trial	-5	119	139	118
Sunmaster(Φ)		64	118	124	110
LRPB Scotch(Φ)				129	113
Ballista(Φ)		174	107	114	108
EG Jet(Φ)			107	124	109
Beckom(Φ)		127	108	109	105
Brumby(Φ)				105	104
Scepter(Φ)		159	109	104	104
Rebel Rat					106
RockStar(Φ)		160	113	93	106
IMI-TOLERANT					
Sunblade CL Plus(Φ)		82	112	118	105
Razor CL Plus(Φ)		142	97	110	96
Valiant(Φ) CL Plus			107	96	105
Sowing date	**14 May**	**13 May**	**13 May**	**24 May**	**17 May**
Rainfall J–M (mm)	**79**	**282**	**107**	**363**	**194**
Rainfall A–O (mm)	**142**	**160**	**569**	**390**	**729**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 4: Gerogery main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	3.42	2.69	6.35	7.14	5.31
RGT Zanzibar	100	87	114	115	128
RockStar(Φ)		114	112	108	102
Ballista(Φ)		117	108	104	107
Suncentral(Φ)		102	108	107	110
Boree(Φ)			108	104	100
Sunmaster(Φ)		104	107	108	105
LRPB Scotch(Φ)				112	118
Vixen(Φ)	119	125	108	103	93
Brumby(Φ)				101	101
Denison(Φ)			106	104	102
IMI-TOLERANT					
Valiant(Φ) CL Plus			106	106	108
Sunblade CL Plus(Φ)		101	105	104	97
LRPB Anvil(Φ)				94	90
Sowing date	**15 May**	**20 May**	**19 May**	**16 May**	**2 Jun**
Rainfall J–M (mm)	**79**	**85**	**157**	**204**	**403**
Rainfall A–O (mm)	**173**	**206**	**378**	**228**	**720**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 5: Lockhart main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		**1.60**	**6.27**	**6.04**	**6.04**
RockStar(Ф)	Compromised trial	122	108	108	103
Vixen(Ф)		143	108	109	96
Boree(Ф)			106	109	101
RGT Zanzibar			110	101	121
Ballista(Ф)		123	102	106	105
Denison(Ф)			104	109	102
Suncentral(Ф)		94	107	104	108
Borlaug 100(Ф)					104
LRPB Scotch(Ф)					115
Brumby(Ф)				106	99
IMI-TOLERANT					
Valiant(Ф) CL Plus			107	100	108
Sunblade CL Plus(Ф)		103	102	102	97
LRPB Anvil(Ф)				102	92
Sowing date	**16 May**	**20 May**	**14 May**	**20 May**	**24 May**
Rainfall J–M (mm)	**96**	**60**	**250**	**255**	**383**
Rainfall A–O (mm)	**136**	**185**	**446**	**239**	**371**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 6: Mayrung main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	**7.33**	**7.17**	**7.72**	**8.35**	**5.65**
Sunmaster(Ф)		120	114	112	111
RGT Zanzibar	98	114	114	113	125
RockStar(Ф)		119	111	112	105
LRPB Scotch(Ф)				110	118
Scepter(Ф)	108	113	108	107	100
Beckom(Ф)	106	111	107	107	105
Vixen(Ф)	108	110	107	110	96
Suncentral(Ф)		107	107	109	108
Ballista(Ф)		109	106	106	106
Brumby(Ф)				106	102
IMI-TOLERANT					
Sunblade CL Plus(Ф)		123	112	109	106
Sheriff CL Plus(Ф)		107	103	103	90
Valiant(Ф) CL Plus			103	105	106
Sowing date	**21 May**	**22 May**	**25 May**	**24 May**	**11 May**
Rainfall J–M (mm)	**28**	**24**	**94**	**90**	**190**
Rainfall A–O (mm)	**127**	**141**	**278**	**216**	**448**
Irrigation A–O (mm)	**240**	**300**	**280**	**210**	

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 7: Merriwagga main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	**2.48**	**1.23**	**4.81**	**4.34**	**4.78**
Calibre(Ф)			110	114	102
Borlaug 100(Ф)					110
Brumby(Ф)				110	105
Ballista(Ф)		120	104	113	105
Vixen(Ф)	105	114	113	112	100
Rebel Rat					109
Boree(Ф)			108	111	102
RockStar(Ф)		111	106	115	101
Scepter(Ф)	104	112	109	108	101
Beckom(Ф)	105	109	106	107	105
IMI-TOLERANT					
LRPB Anvil(Ф)				107	98
Sunblade CL Plus(Ф)		98	102	106	99
Hammer CL Plus(Ф)			100	99	94
Sowing date	**7 Jun**	**15 May**	**12 May**	**18 May**	**19 May**
Rainfall J–M (mm)	**41**	**47**	**170**	**144**	**133**
Rainfall A–O (mm)	**110**	**126**	**239**	**286**	**469**

Special thanks to 2022 trial cooperator, Palomar Partners.
Learn more via the NVT Long Term Yield Reporter

Table 8: Oaklands main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		**2.58**	**4.96**	**5.44**	**6.42**
RGT Zanzibar	Trial failed		112	103	123
Sunmaster(Ф)		108	109	110	111
Borlaug 100(Ф)					109
Suncentral(Ф)		99	108	107	110
Beckom(Ф)		110	104	110	104
Brumby(Ф)				111	103
Rebel Rat					108
Vixen(Ф)		108	100	113	103
Scepter(Ф)		111	100	109	103
Cutlass(Ф)		100	108	106	103
IMI-TOLERANT					
Sunblade CL Plus(Ф)		106	104	104	104
Valiant(Ф) CL Plus			103	100	109
Chief CL Plus(Ф)		102	102	105	94
Sowing date	**31 May**	**17 May**	**19 May**	**21 May**	**17 May**
Rainfall J–M (mm)	**46**	**28**	**197**	**125**	**196**
Rainfall A–O (mm)	**125**	**115**	**365**	**231**	**482**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 9: Temora main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		0.68	6.16	6.38	
Vixen(Ф)	Compromised trial	168	111	106	Trial failed
Calibre(Ф)			108	105	
RockStar(Ф)		143	108	108	
Brumby(Ф)				105	
Ballista(Ф)		156	106	106	
Sunmaster(Ф)		70	115	106	
Scepter(Ф)		142	110	103	
Boree(Ф)			105	106	
Beckom(Ф)		118	109	105	
LRPB Beaufort(Ф)			104	112	
IMI-TOLERANT					
Sunblade CL Plus(Ф)		88	109	102	
LRPB Anvil(Ф)				98	
Sheriff CL Plus(Ф)		128	104	98	
Sowing date	**15 May**	**20 May**	**14 May**	**22 May**	**23 May**
Rainfall J–M (mm)	**83**	**162**	**179**	**303**	**232**
Rainfall A–O (mm)	**151**	**130**	**429**	**331**	**622**

Special thanks to 2022 trial cooperator, Farmlink Research.
Learn more via the NVT Long Term Yield Reporter

Table 10: Wagga Wagga main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		1.66	6.45	5.64	5.58
Ballista(Ф)	Compromised trial	135	106	108	110
Sunmaster(Ф)		93	106	106	122
Calibre(Ф)			103	110	101
Brumby(Ф)				108	107
RGT Zanzibar		47	108	103	133
Beckom(Ф)		118	104	107	110
Scepter(Ф)		136	105	107	103
Rebel Rat					110
Kingston(Ф)					103
RockStar(Ф)		125	110	109	91
IMI-TOLERANT					
Sunblade CL Plus(Ф)		99	103	103	115
LRPB Anvil(Ф)				104	90
Razor CL Plus(Ф)		132	96	98	106
Sowing date	**17 May**	**16 May**	**18 May**	**16 May**	**19 May**
Rainfall J–M (mm)	**83**	**81**	**123**	**267**	**229**
Rainfall A–O (mm)	**175**	**191**	**408**	**267**	**498**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 11: Yenda main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	6.92	7.82	5.90	8.36	6.18
Sunmaster(Ф)		113	110	113	115
RGT Zanzibar	105	110	114	105	120
RockStar(Ф)		118	112	107	106
LRPB Scotch(Ф)				103	115
Scepter(Ф)	103	111	105	110	107
Ballista(Ф)		111	107	107	110
LRPB Cobra(Ф)	102	112	104	109	105
Vixen(Ф)	104	110	107	108	102
Beckom(Ф)	104	107	105	107	107
Brumby(Ф)				108	106
IMI-TOLERANT					
Sunblade CL Plus(Ф)		117	108	110	108
Sheriff CL Plus(Ф)		107	100	104	94
Razor CL Plus(Ф)	98	104	95	108	101
Sowing date	**25 May**	**23 May**	**26 May**	**19 May**	**23 May**
Rainfall J–M (mm)	**5**	**54**	**141**	**211**	**219**
Rainfall A–O (mm)	**102**	**184**	**323**	**203**	**439**
Irrigation A–O (mm)	**240**	**400**	**137**	**140**	

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 12: Beckom early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		0.37	4.67	5.70	4.66
RGT Zanzibar	Compromised trial	13	109	108	111
RockStar(Ф)		164	107	110	98
LRPB Beaufort(Ф)			103	109	110
Catapult(Ф)		132	106	110	92
LRPB Scotch(Ф)				103	103
Stockade(Ф)					108
Beckom(Ф)		140	108	103	95
Denison(Ф)		71	106	109	95
BigRed(Ф)				101	119
Coota(Ф)		160	106	106	91
IMI-TOLERANT					
Valiant(Ф) CL Plus			102	106	100
Sheriff CL Plus(Ф)		162	105	105	92
Sowing date	**8 May**	**15 Apr**	**27 Apr**	**5 May**	**3 May**
Rainfall J–M (mm)	**47**	**76**	**122**	**261**	**187**
Rainfall A–O (mm)	**128**	**128**	**366**	**276**	**450**
Irrigation A–O (mm)	**240**	**300**	**280**	**210**	

Special thanks to 2022 trial cooperator, O'Hare.
Learn more via the NVT Long Term Yield Reporter

Table 13: Galong early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		0.52	6.33	7.46	8.69
BigRed(Þ)	Compromised trial			123	138
RGT Zanzibar		95	121	122	123
RGT Cesario(Þ)			121	119	130
RGT Accroc(Þ)		1	122	117	130
RGT Waugh(Þ)			128	114	125
RGT Calabro		12	122	114	126
LRPB Beaufort(Þ)			121	115	121
Stockade(Þ)					117
EG Jet(Þ)		90	114	108	110
LRPB Scotch(Þ)				110	107
IMI-TOLERANT					
Valiant(Þ) CL Plus			107	101	102
Sheriff CL Plus(Þ)		178	94	94	85
Sowing date	**30 Apr**	**29 Apr**	**28 Apr**	**23 Apr**	**2 May**
Rainfall J–M (mm)	**79**	**282**	**107**	**363**	**194**
Rainfall A–O (mm)	**142**	**160**	**569**	**390**	**729**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 14: Gerogery early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	3.50	3.11	6.78	7.40	5.55
BigRed(Þ)				122	142
RGT Zanzibar	104	109	116	116	123
LRPB Beaufort(Þ)			116	116	122
RGT Cesario(Þ)			114	119	132
RGT Accroc(Þ)	97	77	113	117	132
Stockade(Þ)					117
RGT Calabro	95	73	111	112	129
RockStar(Þ)		125	111	102	97
LRPB Scotch(Þ)				104	107
RGT Waugh(Þ)			112	105	129
IMI-TOLERANT					
Valiant(Þ) CL Plus			106	103	101
Sheriff CL Plus(Þ)		123	99	93	83
Sowing date	**5 May**	**1 May**	**27 Apr**	**30 Apr**	**23 Apr**
Rainfall J–M (mm)	**79**	**85**	**157**	**204**	**403**
Rainfall A–O (mm)	**173**	**206**	**378**	**228**	**720**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 15: Lockhart early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			6.07	5.90	6.40
BigRed(Þ)	Compromised trial	Compromised trial		120	128
LRPB Beaufort(Þ)			119	117	115
RGT Zanzibar			117	110	116
Stockade(Þ)					112
EG Jet(Þ)			108	101	107
LRPB Scotch(Þ)				99	105
Sunflex(Þ)			106		99
Illabo(Þ)			103	101	105
RockStar(Þ)			111	100	98
LRPB Nighthawk(Þ)			100	104	103
IMI-TOLERANT					
Valiant(Þ) CL Plus			107	106	101
Sheriff CL Plus(Þ)			97	93	89
Sowing date	**9 May**	**26 Apr**	**24 Apr**	**30 Apr**	**26 Apr**
Rainfall J–M (mm)	**96**	**60**	**250**	**255**	**383**
Rainfall A–O (mm)	**136**	**185**	**446**	**239**	**371**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 16: Mayrung early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	6.53	7.18	7.65	7.86	6.01
RGT Zanzibar	105	112	118	120	118
LRPB Beaufort(Þ)			111	121	115
BigRed(Þ)				128	130
RockStar(Þ)		118	110	112	97
RGT Cesario(Þ)					123
RGT Waugh(Þ)					119
RGT Accroc(Þ)	83	108	109	121	123
RGT Calabro	83	105	110	120	120
LRPB Scotch(Þ)				109	106
Stockade(Þ)					111
IMI-TOLERANT					
Valiant(Þ) CL Plus			102	107	99
Sheriff CL Plus(Þ)		105	100	95	87
Sowing date	**17 May**	**8 May**	**8 May**	**7 May**	**3 May**
Rainfall J–M (mm)	**28**	**24**	**94**	**90**	**190**
Rainfall A–O (mm)	**127**	**141**	**278**	**216**	**448**
Irrigation A–O (mm)	**240**	**300**	**280**	**210**	

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 17: Merriwagga early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		**1.56**	**4.84**	**4.52**	**4.96**
RockStar(Ф)	No trial	146	114	129	106
Catapult(Ф)		141	119	128	96
Coota(Ф)		147	116	120	95
Denison(Ф)		113	118	122	98
Beckom(Ф)		131	114	113	103
LRPB Trojan(Ф)		149	112	118	94
RGT Zanzibar		67	108	110	122
LRPB Beaufort(Ф)			104	114	117
Sunflex(Ф)		121	104		99
LRPB Scotch(Ф)				106	110
IMI-TOLERANT					
Sheriff CL Plus(Ф)		145	113	118	95
Valiant(Ф) CL Plus			106	115	103
Sowing date		**29 Apr**	**28 Apr**	**29 Apr**	**28 Apr**
Rainfall J–M (mm)		**47**	**170**	**144**	**133**
Rainfall A–O (mm)		**126**	**239**	**286**	**469**

Special thanks to 2022 trial cooperator, Palomar Partners.
Learn more via the NVT Long Term Yield Reporter

Table 18: Oaklands early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		**2.68**	**5.64**	**5.79**	**5.50**
BigRed(Ф)	Trial failed			109	149
RGT Zanzibar		93	113	112	127
LRPB Beaufort(Ф)			113	115	123
Stockade(Ф)					117
RockStar(Ф)		117	106	116	97
LRPB Scotch(Ф)				105	111
EG Jet(Ф)		95	100	107	115
Sunflex(Ф)		107	104		95
DS Pascal(Ф)		99	98	105	106
Illabo(Ф)		93	99	102	111
IMI-TOLERANT					
Valiant(Ф) CL Plus			105	109	99
Sheriff CL Plus(Ф)		121	100	104	80
Sowing date	**9 May**	**7 May**	**23 Apr**	**27 Apr**	**22 Apr**
Rainfall J–M (mm)	**46**	**28**	**197**	**125**	**196**
Rainfall A–O (mm)	**125**	**115**	**365**	**231**	**482**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 19: Temora early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		**0.40**	**5.74**	**6.82**	
BigRed(Ф)	Compromised trial			129	Trial failed
RGT Cesario(Ф)			124	126	
RGT Accroc(Ф)		23	126	124	
LRPB Beaufort(Ф)			126	120	
Willaura(Ф)				114	
RGT Calabro		48	121	115	
RGT Zanzibar		68	111	119	
RGT Waugh(Ф)			117	105	
EG Jet(Ф)		103	110	104	
RockStar(Ф)		148	111	99	
IMI-TOLERANT					
Valiant(Ф) CL Plus			113	104	
Sheriff CL Plus(Ф)		157	93	89	
Sowing date	**29 Apr**	**1 May**	**22 Apr**	**27 Apr**	**3 May**
Rainfall J–M (mm)	**83**	**162**	**179**	**303**	**232**
Rainfall A–O (mm)	**151**	**130**	**429**	**331**	**622**

Special thanks to 2022 trial cooperator, Farmlink Research.
Learn more via the NVT Long Term Yield Reporter

Table 20: Wagga Wagga early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			**6.75**	**6.00**	**5.97**
BigRed(Ф)	Compromised trial	Compromised trial		116	132
RGT Cesario(Ф)			111	115	124
RGT Accroc(Ф)			108	113	125
LRPB Beaufort(Ф)			114	116	113
RGT Zanzibar			116	109	116
Stockade(Ф)					110
RGT Calabro			102	108	123
RGT Waugh(Ф)			95	100	125
EG Jet(Ф)			102	102	108
LRPB Scotch(Ф)				100	105
IMI-TOLERANT					
Valiant(Ф) CL Plus			106	108	97
Sheriff CL Plus(Ф)			101	97	84
Sowing date	**7 May**	**18 Apr**	**28 Apr**	**26 Apr**	**29 Apr**
Rainfall J–M (mm)	**83**	**81**	**123**	**267**	**229**
Rainfall A–O (mm)	**175**	**191**	**408**	**267**	**498**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 21: Yenda early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	**6.89**	**7.75**	**6.42**	**8.25**	**6.53**
RGT Zanzibar	105	110	117	114	121
LRPB Beaufort(Ф)			114	106	112
BigRed(Ф)				99	126
RockStar(Ф)		112	109	114	100
RGT Cesario(Ф)					119
RGT Waugh(Ф)					126
LRPB Scotch(Ф)				110	111
RGT Accroc(Ф)	100	110	110	98	119
RGT Calabro	98	111	105	98	120
EG Jet(Ф)	101	109	104	105	110
IMI-TOLERANT					
Valiant(Ф) CL Plus			105	103	98
Sheriff CL Plus(Ф)		100	100	107	90
Sowing date	**25 May**	**14 May**	**15 May**	**6 May**	**2 May**
Rainfall J–M (mm)	**5**	**54**	**141**	**211**	**219**
Rainfall A–O (mm)	**102**	**184**	**323**	**203**	**439**
Irrigation A–O (mm)	**240**	**400**	**137**	**140**	

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 22: Culcairn long season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		**3.17**	**5.89**	**6.58**	**5.97**
Anapurna	Compromised trial	108	106	108	142
BigRed(Ф)				107	145
RGT Cesario(Ф)			107	109	131
LRPB Beaufort(Ф)		120	110	113	110
Stockade(Ф)					112
RGT Accroc(Ф)		102	105	112	122
RGT Waugh(Ф)			102	99	145
RGT Zanzibar		122	106	111	99
RGT Calabro		69	107	103	128
Illabo(Ф)		113	101	101	100
IMI-TOLERANT					
Valiant(Ф) CL Plus				103	80
Sowing date	**3 May**	**18 Apr**	**20 Apr**	**16 Apr**	**18 Apr**
Rainfall J–M (mm)	**79**	**85**	**157**	**204**	**334**
Rainfall A–O (mm)	**173**	**206**	**378**	**228**	**543**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 23: Galong long season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			**5.60**	**7.89**	**8.84**
RGT Waugh(Ф)	Compromised trial	Trial failed	137	114	129
Anapurna			121	120	129
BigRed(Ф)				118	130
LRPB Beaufort(Ф)			124	122	118
RGT Calabro			130	109	123
RGT Accroc(Ф)			115	109	131
RGT Cesario(Ф)			114	111	126
RGT Zanzibar			112	114	111
Stockade(Ф)					112
Manning(Ф)			117	85	116
IMI-TOLERANT					
Valiant(Ф) CL Plus				98	87
Sowing date	**30 Apr**	**3 Apr**	**14 Apr**	**9 Apr**	**19 Apr**
Rainfall J–M (mm)	**79**	**282**	**107**	**363**	**194**
Rainfall A–O (mm)	**142**	**160**	**569**	**390**	**729**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 24: Lockhart durum wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		**0.96**	**5.52**	**4.86**	**4.95**
DBA-Aurora(Ф)	Compromised trial	117	107	103	107
Bitalli(Ф)		116	100	103	112
DBA Mataroi(Ф)		115	99	102	111
Westcourt(Ф)		106	98	104	108
DBA-Artemis(Ф)				103	99
DBA Spes(Ф)			107		100
DBA Vittaroi(Ф)		98	100	99	98
DBA Bindaroi(Ф)		85	99	102	92
Caparoi(Ф)		78	95	100	90
DBA Lillaroi(Ф)		76	94	96	87
Sowing date	**16 May**	**20 May**	**14 May**	**20 May**	**24 May**
Rainfall J–M (mm)	**96**	**60**	**250**	**255**	**383**
Rainfall A–O (mm)	**136**	**185**	**446**	**239**	**371**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 25: Mayrung durum wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			**7.26**	**8.41**	**4.04**
Bitalli(Ⓑ)	No trial	No trial	103	107	113
DBA Mataroi(Ⓑ)			103	106	112
Westcourt(Ⓑ)			101	109	109
DBA-Aurora(Ⓑ)			103	103	110
DBA-Artemis(Ⓑ)				101	101
DBA Spes(Ⓑ)			102		102
DBA Bindaroi(Ⓑ)			97	101	92
Caparoi(Ⓑ)			95	100	89
DBA Lillaroi(Ⓑ)			95	93	84
Jandaroi(Ⓑ)			96	84	79
Sowing date			**25 May**	**24 May**	**20 May**
Rainfall J–M (mm)			**94**	**90**	**190**
Rainfall A–O (mm)			**278**	**216**	**448**
Irrigation A–O (mm)			**280**	**210**	

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 26: Merriwagga durum wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	**1.59**	**0.76**	**3.65**	**3.88**	**3.51**
DBA-Aurora(Ⓑ)	113	110	104	103	104
Bitalli(Ⓑ)		107	106	105	101
DBA-Artemis(Ⓑ)				102	104
DBA Mataroi(Ⓑ)	100	105	105	104	101
Westcourt(Ⓑ)	97	105	105	105	100
DBA Spes(Ⓑ)			100		103
DBA Vittaroi(Ⓑ)	100	98	99	98	100
DBA Bindaroi(Ⓑ)	98	97	97	101	99
Caparoi(Ⓑ)	89	92	96	99	97
DBA Lillaroi(Ⓑ)	87	86	93	94	95
Sowing date	**7 Jun**	**15 May**	**12 May**	**18 May**	**19 May**
Rainfall J–M (mm)	**41**	**47**	**170**	**144**	**133**
Rainfall A–O (mm)	**110**	**126**	**239**	**286**	**469**

Special thanks to 2022 trial cooperator, Palomar Partners.
Learn more via the NVT Long Term Yield Reporter

Table 27: Yenda durum wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	**6.82**	**8.76**	**5.72**	**7.42**	**3.66**
Westcourt(Ⓑ)	104	102	100	112	115
Bitalli(Ⓑ)		102	101	107	120
DBA Mataroi(Ⓑ)	100	101	100	106	121
DBA-Aurora(Ⓑ)	100	105	109	98	98
DBA-Artemis(Ⓑ)				96	81
DBA Bindaroi(Ⓑ)	104	100	101	103	83
Caparoi(Ⓑ)	104	97	95	106	90
DBA Spes(Ⓑ)			108		87
DBA Vittaroi(Ⓑ)	99	99	100	97	97
DBA Lillaroi(Ⓑ)	98	94	91	98	93
Sowing date	**25 May**	**23 May**	**26 May**	**19 May**	**23 May**
Rainfall J–M (mm)	**5**	**54**	**141**	**211**	**219**
Rainfall A–O (mm)	**102**	**184**	**323**	**203**	**439**
Irrigation A–O (mm)	**240**	**400**	**137**	**140**	

Special thanks to 2022 trial cooperator - permission to publish was not received.
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 2021 and 2022 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 11 NVT sites in Southern NSW in 2021.

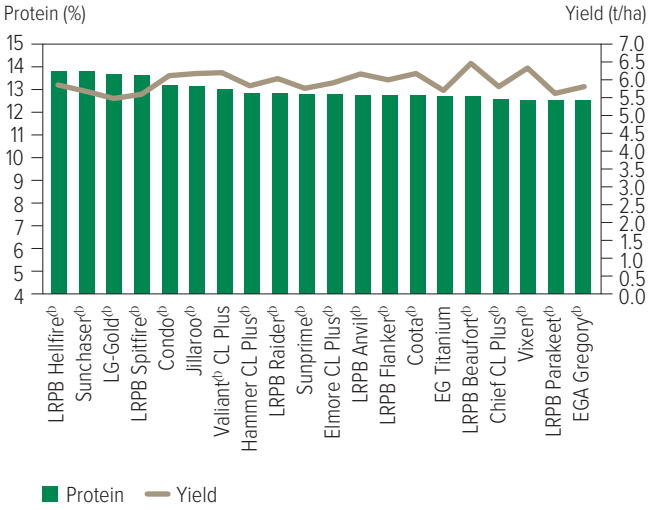


Figure 2: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from 10 NVT sites in Southern NSW in 2022.

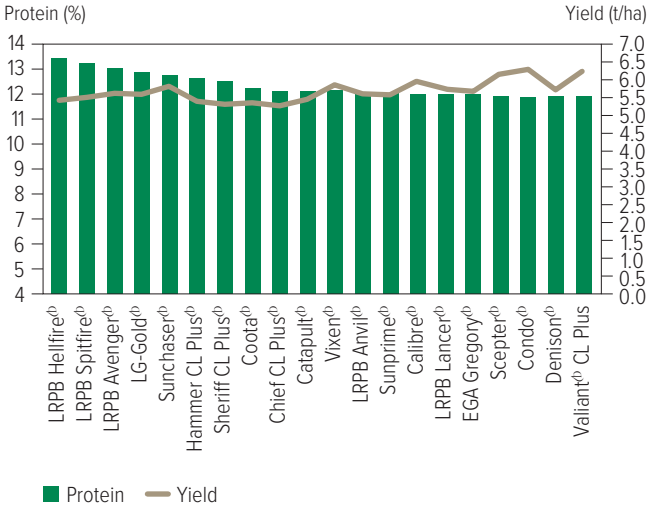


Figure 3: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from 10 NVT sites in Southern NSW in 2021.

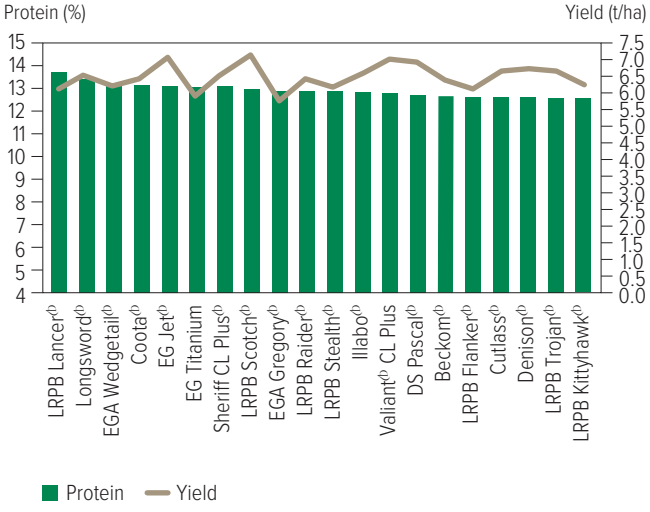


Figure 4: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from nine NVT sites in Southern NSW in 2022.

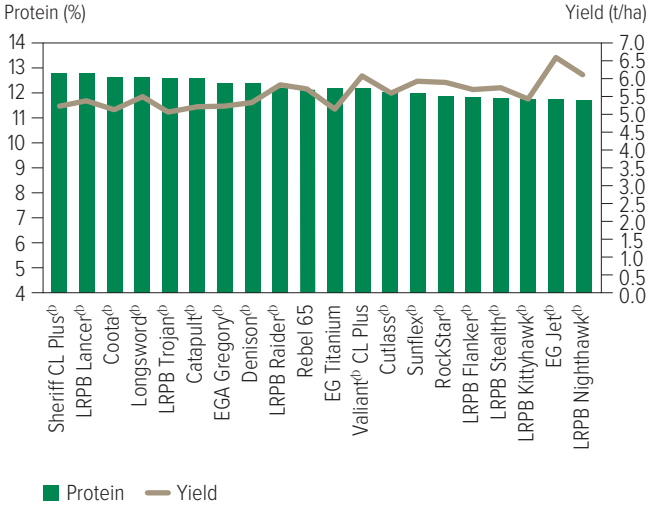


Figure 5: Protein (%) and yield (t/ha) comparisons for long season wheat varieties from two NVT sites in Southern NSW in 2021.

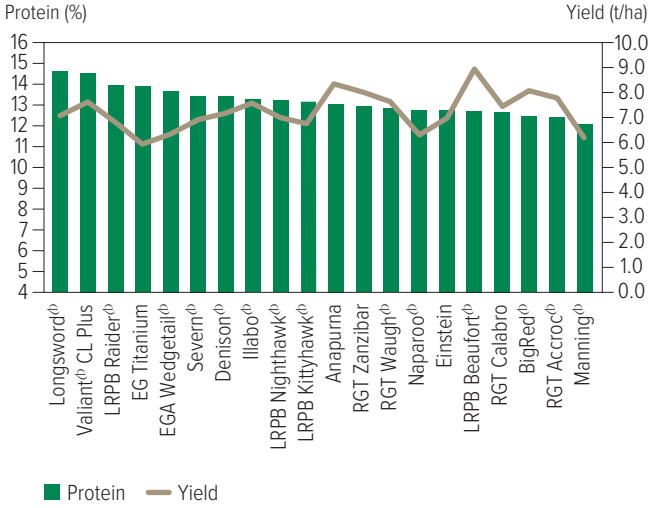


Figure 6: Protein (%) and yield (t/ha) comparisons for long season wheat varieties from two NVT sites in Southern NSW in 2022.

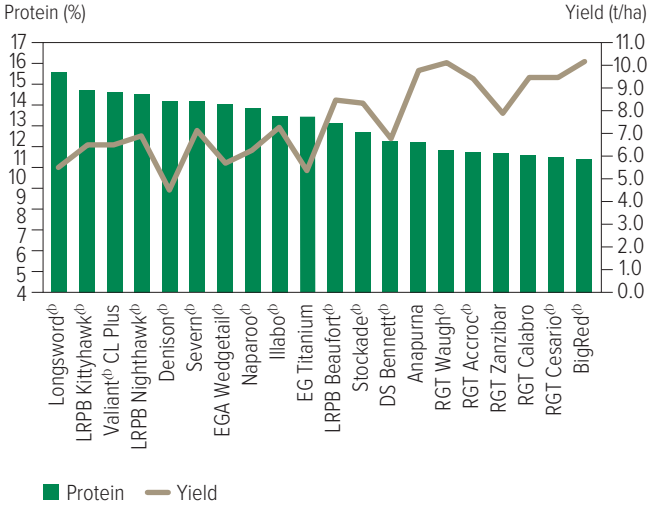


Figure 7: Protein (%) and yield (t/ha) comparisons for durum wheat varieties from four NVT sites in Southern NSW in 2021.

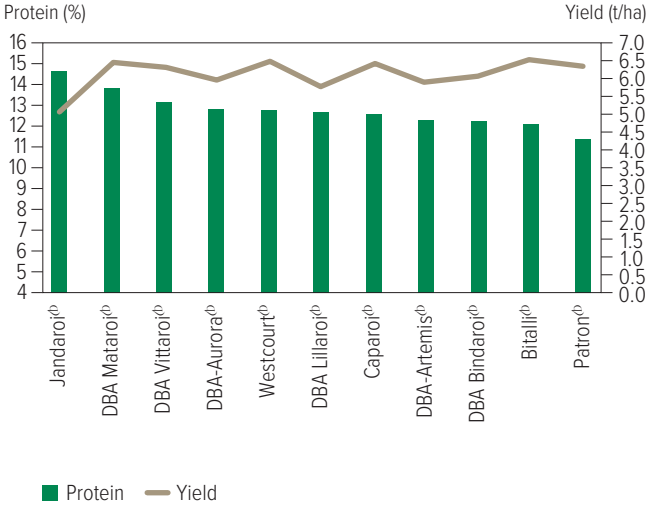
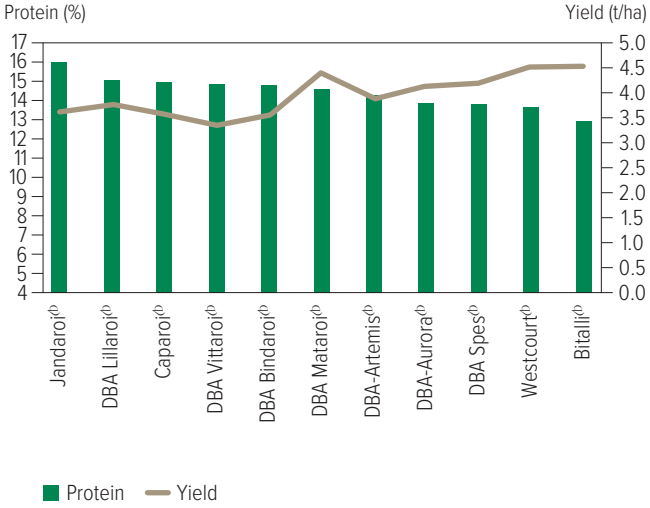


Figure 8: Protein (%) and yield (t/ha) comparisons for durum wheat varieties from four NVT sites in Southern NSW in 2022.



Test weight comparisons

Figure 9: Test weight (kg/hL) comparisons for main season wheat varieties from 11 NVT sites in Southern NSW in 2021.

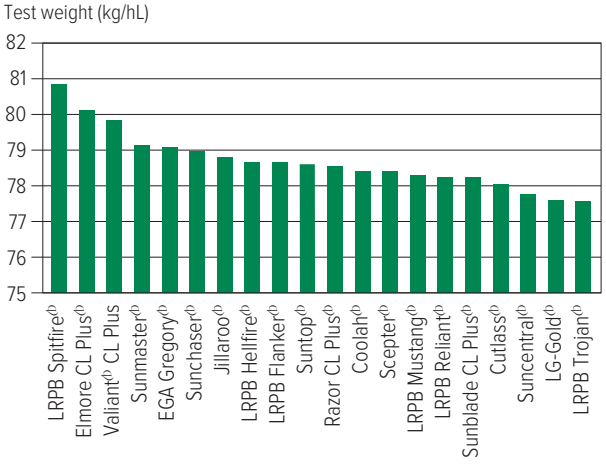


Figure 10: Test weight (kg/hL) comparisons for main season wheat varieties from 10 NVT sites in Southern NSW in 2022.

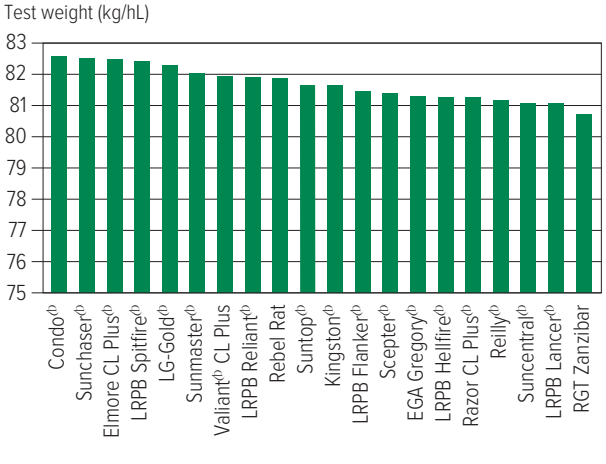


Figure 11: Test weight (kg/hL) comparisons for early season wheat varieties from 10 NVT sites in Southern NSW in 2021.

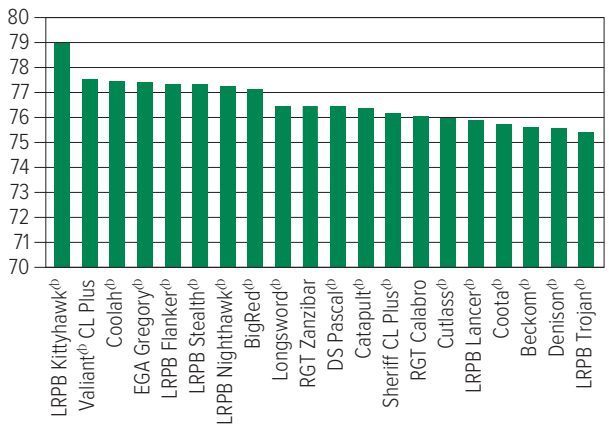


Figure 12: Test weight (kg/hL) comparisons for early season wheat varieties from nine NVT sites in Southern NSW in 2022.

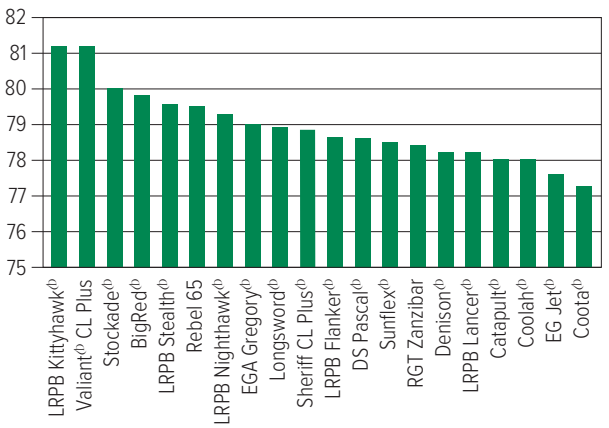


Figure 13: Test weight (kg/hL) comparisons for long season wheat varieties from two NVT sites in Southern NSW in 2021.

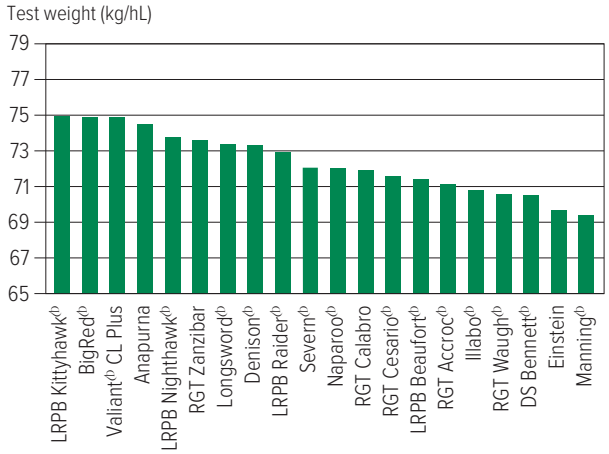


Figure 14: Test weight (kg/hL) comparisons for long season wheat varieties from two NVT sites in Southern NSW in 2022.

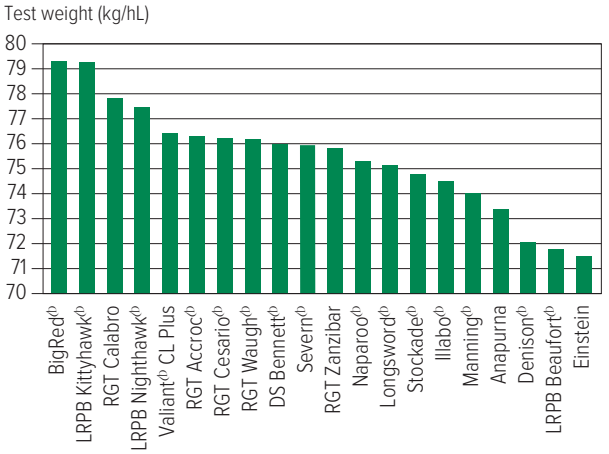
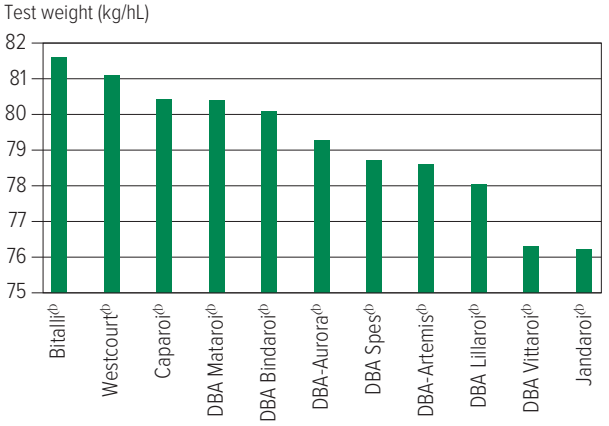


Figure 15: Test weight (kg/hL) comparisons for durum wheat varieties from four NVT sites in Southern NSW in 2021.

Figure 16: Test weight (kg/hL) comparisons for durum wheat varieties from four NVT sites in Southern NSW in 2022.



Screenings comparisons

Figure 17: Screenings (<2.0mm) comparisons for main season wheat varieties from 11 NVT sites in Southern NSW in 2021.

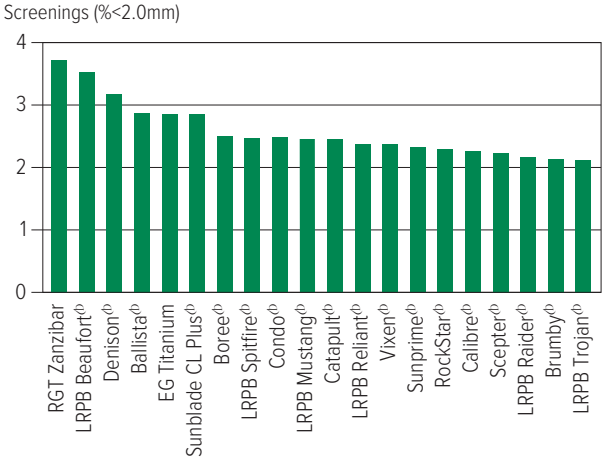


Figure 18: Screenings (<2.0mm) comparisons for main season wheat varieties from 10 NVT sites in Southern NSW in 2022.

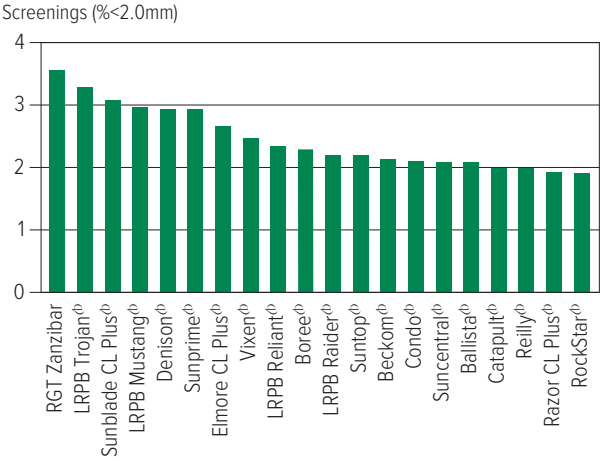


Figure 19: Screenings (<2.0mm) comparisons for early season wheat varieties from 10 NVT sites in Southern NSW in 2021.

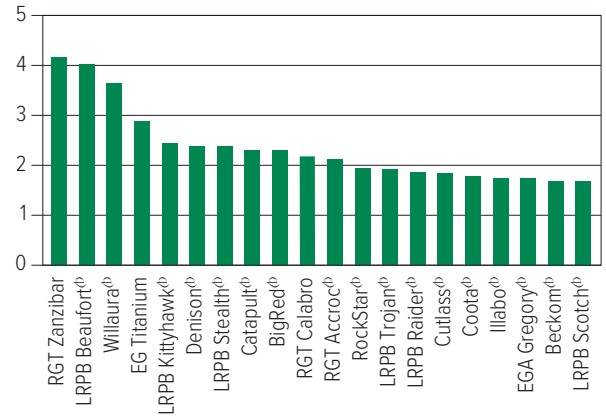


Figure 20: Screenings (<2.0mm) comparisons for early season wheat varieties from nine NVT sites in Southern NSW in 2022.

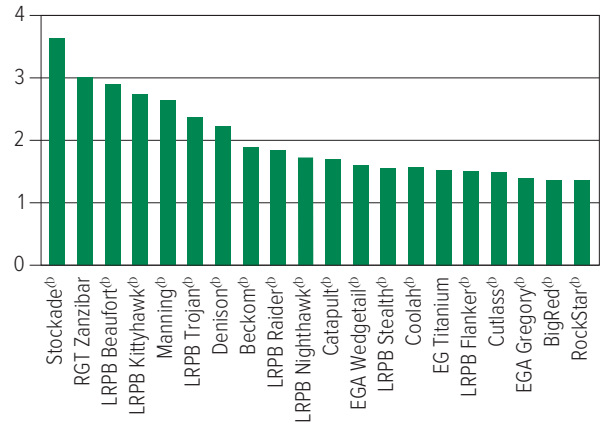


Figure 21: Screenings (<2.0mm) comparisons for long season wheat varieties from two NVT sites in Southern NSW in 2021.

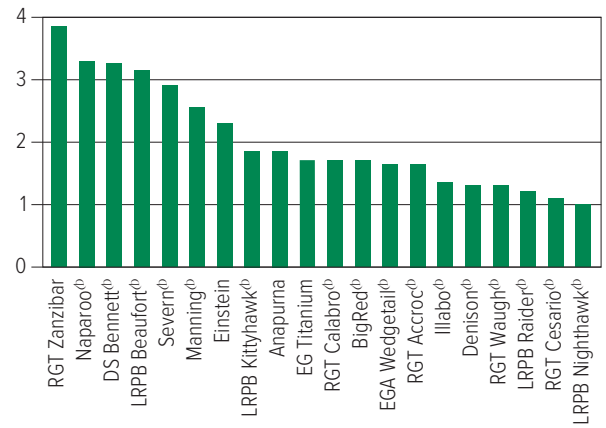


Figure 22: Screenings (<2.0mm) comparisons for long season wheat varieties from two NVT sites in Southern NSW in 2022.

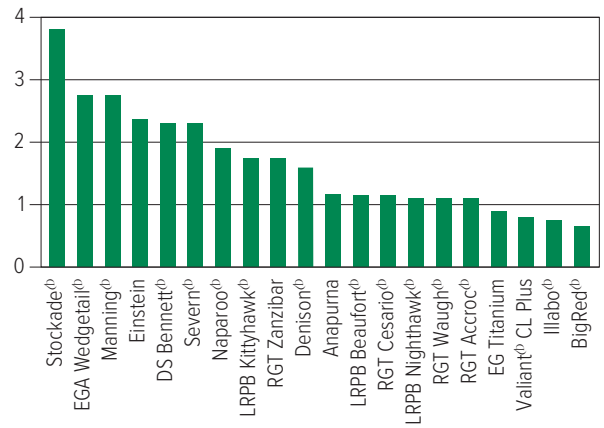


Figure 23: Screenings (<2.0mm) comparisons for durum wheat varieties from four NVT sites in Southern NSW in 2021.

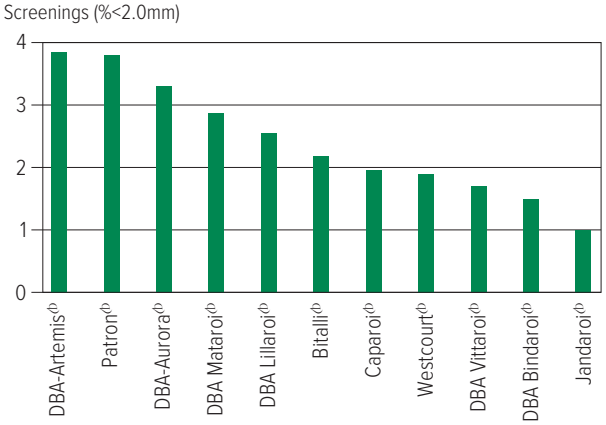
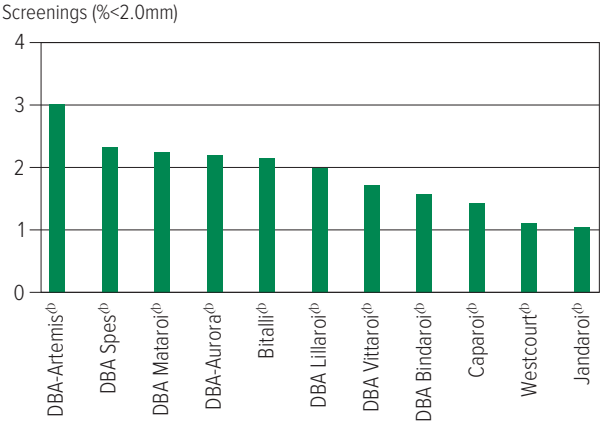


Figure 24: Screenings (<2.0mm) comparisons for durum wheat varieties from four NVT sites in Southern NSW in 2022.



Wheat variety disease ratings – New South Wales

The following table contains 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 2023.

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 29: Wheat disease guide for New South Wales.

Variety	Crown rot	Leaf rust	Stem rust	Stripe rust (east coast resistance)	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	MRMS	MRMS	S (P)		MS		MRMS	MSS
Ascot(b)	S	RMR	MRMS	MSS	S	MRMS	S	MI	S	MI	MR	S
Ballista(b)	S	S	MR	MSS	SVS	MS	MRMS	MI	S	MTMI	MRMS	MS
Beckom(b)	S	MSS	MRMS	MRMS	S	MSS	MSS	TMT	S	MTMI	R	MRMS
BigRed(b)	S (P)	MRMS	S	RMR	MR	MR	MS		MS		S	MR (P)
Boree(b)	S	S	MR	SVS	SVS	MRMS	MSS	MII	S	I	MSS	S
Borlaug 100(b)	MSS	MR	MR	SVS	MSS	MRMS	MS	T	S	T	MS	MSS
Brumby(b)	S	SVS	MR	MS	S	MRMS	MS	MI	MRMS	TMT	MRMS	MS (P)
Calibre(b)	S	S	MR	S	S	MRMS	MSS	MI	S	MT	MRMS	MS (P)
Catapult(b)	MSS	S	MR	S	MSS	MRMS	MS	MT	S	MII	R	S
Chief CL Plus(b)	MSS	MR	MR	SVS	S	MRMS	MSS	IVI	MRMS	MT	MS	MS
Condo(b)	S	S	MR	MS	S	MS	MS	TMT	S	MT	MR	MS
Coolah(b)	MSS	RMR	MR	MSS	MSS	MSS	MS	MT	S	MT	S	S
Coota(b)	MSS	MR	RMR	S	S	MSS	MS	MTMI	MR	MI	MR	MS
Cutlass(b)	S	RMR	R	MSS	MSS	MSS	MSS	MI	MSS	MT	MR	MS
Denison(b)	MSS	S	MS	S	MSS	MRMS	S	MI	S	MII	MS	MS
DS Bennett(b)	VS	SVS	MS	S	MSS	MRMS	S		S		S	MSS
DS Faraday(b)	MSS	R#	RMR	MS	MSS	MSS	MSS	MT	S	MTMI	MS	MSS
DS Pascal(b)	S	MS	MSS	MRMS	MSS	MS	S	IVI	S	MTMI	S	MS
DS Tull(b)	S	MSS	MR	MS	SVS	S	MSS	MTMI	MSS	MT	MSS	MRMS
EG Jet(b)	S	S	S	MRMS	MSS	MRMS	S	I	S	MI	MRMS	MS
EG Titanium	MSS	MS	MS	MR	MSS	MSS	MSS	MTMI	MSS	MTMI	R	MSS
EGA Gregory(b)	S	RMR#	MR	MS	MSS	S	MSS	MT	S	MT	S	MSS
EGA Wedgetail(b)	S	MSS	MRMS	MS	MSS	MSS	VS	MII	S	MII	S	MS
Emu Rock(b)	MSS	SVS	MS	SVS	S	MS	S	IVI	MSS	MI	S	MSS
Hammer CL Plus(b)	MSS	S	MR	MS	MSS	MRMS	S	I	MSS	MTMI	MRMS	MRMS
Illabo(b)	S	S	MRMS	MRMS	MSS	MS	MSS	MII	MSS	VI	MRMS	MRMS
Jillaroo(b)	S	S	MS	MSS	S	MRMS	MS (P)	I	S	I	MS	MSS (P)
Kingston(b)	S	S	S	MSS	S	MSS	MRMS	MTMI	S	MTMI	R	S
LG-Gold(b)	MSS	S	MSS	SVS	S	S	S	MII	S	MTMI	S	S
Longsword(b)	MSS	MR#	MR	R/S	MS	MRMS	MRMS	MI	MRMS	VI	MRMS	MS
LRPB Anvil(b)	MSS	SVS	MR	S	VS	MSS	S	VI	MSS	MII	MRMS	S (P)
LRPB Avenger(b)	SVS	S	MS	S	S (P)	MS	MS	MI	MSS	MI	MRMS	MS
LRPB Beaufort(b)	S	MSS	SVS	RMR	S	MRMS	MSS	MT	MS	MI	MS	MRMS
LRPB Cobra(b)	S	MR#	MR	S	MSS	MRMS	MSS	MI	MSS	MTMI	MS	MSS
LRPB Flanker(b)	MSS	RMR#	MR	MRMS	MSS	MSS	MSS	MT	S	MT	S	MS
LRPB Hellfire(b)	MSS	MSS	MR	MRMS	S	MSS	MSS	MI	MSS	MTMI	MS	S
LRPB Impala(b)	MSS	SVS	MR	MRMS	SVS	MSS	S	MII	SVS	MTMI	MSS	MS
LRPB Kittyhawk(b)	SVS	MR	MRMS (S)	MR	MRMS	MRMS	S	I	S	MI	S	MRMS
LRPB Lancer(b)	MSS	RMR	R	RMR	MS	MS	MS	TMT	S	MTMI	S	MRMS
LRPB Mustang(b)	MSS	MSS	MRMS	MR	S	MSS	MSS	MTMI	S	MI	MR	MS

Table 29: Wheat disease guide for New South Wales (continued).

Variety	Crown rot	Leaf rust	Stem rust	Stripe rust (east coast resistance)	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 Nighthawk(b)	MSS	MSS	RMR	MRMS	MS	MS	MS	MI	MSS	IVI	MS	MS
LRPB Oryx(b)	MSS	RMR#	MR	MS	SVS	MSS	MSS	IVI	MSS	MII	S	MS
LRPB Parakeet(b)	MSS	R	MR	MR	SVS	MSS	S	MII	MRMS	MT	MS	MS
LRPB Raider(b)	S	RMR	RMR	MR	S	MSS	MS	MT	MSS	MTMI	S	S (P)
LRPB Reliant(b)	MS	RMR	R	MR	MSS	S	MSS	TMT	SVS	MTMI	MSS	MS
LRPB Scotch(b)	S	MR (P)	MSS	MRMS (P)	S (P)	MRMS	S	MTMI	MS	MTMI	MS	MS (P)
LRPB Spitfire(b)	MS	S	MR	MR (S)	S	S	MS	MTMI	MSS	MI	MS	MSS
LRPB Stealth(b)	MSS	RMR#	R	RMR	MSS	MS	S	MTMI	MSS	MTMI	S	MRMS
LRPB Trojan(b)	MS	MR#	MRMS	S	S	MSS	MSS	MI	MSS	MT	MS	MS
Mace(b)	S	S	MRMS	SVS	SVS	MRMS	MS	MT	MS	MII	MRMS	MRMS
Manning(b)	VS	MSS	MR	RMR	MRMS/S	MRMS	S		MSS		S	S
Razor CL Plus(b)	S	S	MRMS	MS	SVS	MSS	MS	MI	S	MT	MR	MS
Rebel 65	MSS (P)	MS (P)	MSS (P)	MSS (P)	SVS	MSS (P)	MS	MT	S	TMT	MSS	MSS (P)
Rebel Rat	S (P)	MSS	MRMS	MS (P)	MSS (P)	MRMS	MSS	TMT	S	T	MRMS	MSS (P)
Reilly(b)	S	MSS	MR	MS	S	S	MSS	MTMI	MS	MTMI	R	MSS (P)
RGT Accroc(b)	SVS	SVS	MS	RMR	MS	MRMS	MSS		S		S	MRMS
RGT Calabro	SVS	MSS	MS	RMR	MRMS	MR	MS		S	VI	S	MS
RGT Cesario(b)	VS	RMR	R	RMR	MRMS	MR	MSS		MRMS		MSS (P)	
RGT Waugh(b)	S	S	MS	RMR	MRMS	MRMS	MSS		MS		MS	MRMS (P)
RGT Zanzibar	S	SVS	VS	MRMS	MSS	MS	MS (P)	MI	S	IVI	MSS	MRMS
RockStar(b)	S	S	MRMS	S	S	MRMS	MS	MI	MRMS	I	MSS	MSS
Scepter(b)	MSS	MSS	MRMS	MSS	S	MRMS	MSS	MT	S	MTMI	MRMS	MS
SEA Condamine	MSS	RMR#	MRMS	MSS	VS	MSS	MS	MT	S	MT	S	MRMS
Severn(b)	S	MRMS	MS	RMR	MSS	MRMS	MRMS		S		MSS (P)	MR
Sheriff CL Plus(b)	S	SVS	MS	S	S	MRMS	MRMS	I	MRMS	MTMI	MS	MS
Stockade(b)	S	MR (P)	MS	MR	MS	MRMS	MSS	MTMI	S	MT	MRMS	MRMS (P)
Sunblade CL Plus(b)	S	MSS	MS	MRMS	S	MSS	MRMS	MT	MSS	MI	MSS	MRMS
Suncentral(b)	MSS	RMR	MRMS	MSS	S	MSS	MRMS	MT	MRMS	MI	S	MRMS
Sunchaser(b)	MSS	R	MR	RMR	MSS	MS	MSS	MT	MSS	MTMI	MSS	MRMS
Sunflex(b)	MSS	RMR/S	MR	MRMS	SVS	MS	MSS	MI	S	MI	MS	MSS
Sunmaster(b)	S	RMR#	MS	MRMS	S	MSS	MS	TMT	MRMS	MTMI	MSS	MR
Sunmax(b)	MSS	MS	MRMS	RMR	MSS	MSS	MS	MI	S	MT	MRMS	MRMS
Sunprime(b)	S	MR#	MS	MS	S	MSS	S	MT	S	MTMI	MS	MSS
Suntop(b)	MSS	MR	MRMS	MRMS	MSS	MSS	MRMS	TMT	S	MT	S	MSS
Valiant(b) CL Plus	S	S	MR	MSS	MSS	MRMS	S (P)	IVI	S	MII	MSS (P)	MS (P)
Vixen(b)	S	SVS	MRMS	SVS	S	MRMS	MS	I	MRMS	I	MSS	MSS
DURUM												
Bitalli(b)	SVS	MR	RMR	MRMS	MSS	MRMS	RMR	MII	MSS	MI	MSS	MS
Caparoi(b)	VS	RMR	MR	MS	MRMS/S	MR	MR	MT	MS	MI	MRMS (P)	MSS
DBA Bindaroi(b)	SVS	MR	MR	MS	MS	MRMS	MR	MTMI	MRMS	MI	MS	MRMS
DBA Lillaroi(b)	SVS	RMR	RMR	MS	S	MRMS	RMR	MT	MRMS	MI	S	MS
DBA Mataroi(b)	SVS	MR	MR	MS	MSS	MRMS	RMR	MI	MS	MT	MRMS	MS
DBA Spes(b)	VS	RMR	R	MS	S	MRMS	RMR	MI	MRMS	MTMI	MS	MS
DBA Vittaroi(b)	SVS	RMR	MR	MS	MSS	MRMS	MR	MI	MS	I	S	MSS
DBA-Artemis(b)	VS	RMR	MR	MRMS	MRMS/S	MRMS	MR	MTMI	MS	MII	MS	MS
Westcourt(b)	VS	RMR	RMR	MR	S	MRMS	MR	MT	MS	MI	MSS	MSS

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.

Variety	Variety owner	Grain classification#	End point royalty* ($)	Comments supplied by variety owner
Combat(Φ)	InterGrain	Feed	3.50	Mid-maturity suited to all regions. Semi-prostrate growth habit that will provide more weed competition than Rosalind(Φ). A potential variety replacement for Rosalind(Φ) with a more competitive plant type.
Titan AX(Φ)	Australian Grain Technologies	Under malt evaluation	4.55	The world's first CoAXium® barley variety. Mid-season maturity, slightly later than Compass(Φ), similar to RGT Planet(Φ). Agronomically similar to Compass(Φ).
Zena(Φ) CL	InterGrain	Under malt evaluation	4.25	Zena(Φ) CL is an imidazolinone-tolerant barley variety best-suited to medium-high rainfall environments.

* EPR amount is ex-GST, (Φ) denotes Plant Breeder's Rights apply, # barley malting quality accreditation correct at time of download (10 March 2023).

Refer to the latest *Crop Sowing Guide* for further information at grdc.com.au/nvt-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	2018	2019	2020	2021	2022
Mean yield (t/ha)			**4.19**	**5.93**	**5.08**
RGT Planet(Ф)	No trial	No trial	102	115	113
Combat(Ф)				119	107
Minotaur(Ф)			116	109	106
Cyclops(Ф)			116	108	99
Rosalind(Ф)			114	107	101
Bottler(Ф)			99	104	107
Yeti(Ф)			117	96	96
Laperouse(Ф)			113	97	96
Leabrook(Ф)			102	102	98
Beast(Ф)			106	99	92
HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE)					
Zena(Ф) CL				111	107
Titan AX(Ф)					96
Maximus(Ф) CL			119	93	90
Spartacus CL(Ф)			111	92	89
Sowing date			**18 May**	**13 May**	**23 May**
Rainfall J–M (mm)			**122**	**261**	**187**
Rainfall A–O (mm)			**366**	**276**	**450**

Special thanks to 2022 trial cooperator, O'Hare.
Learn more via the NVT Long Term Yield Reporter

Table 2: Deniliquin main season barley.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			**5.11**	**4.16**	**6.69**
Combat(Ф)	No trial	No trial		117	101
Cyclops(Ф)			111	111	101
Minotaur(Ф)			108	103	106
RGT Planet(Ф)			107	102	107
Rosalind(Ф)			105	106	102
Leabrook(Ф)			101	114	100
Beast(Ф)			100	114	97
Laperouse(Ф)			103	102	100
Fathom(Ф)			102	111	95
Yeti(Ф)			100	102	102
HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE)					
Zena(Ф) CL				108	106
Titan AX(Ф)					97
Commodus(Ф) CL			96	111	96
Maximus(Ф) CL			101	99	98
Sowing date			**13 May**	**28 May**	**10 May**
Rainfall J–M (mm)			**122**	**90**	**74**
Rainfall A–O (mm)			**308**	**249**	**456**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 3: Lockhart main season barley.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		**2.09**	**6.10**	**6.78**	**6.01**
RGT Planet(Ф)	Compromised trial	94	116	108	120
Rosalind(Ф)		122	113	111	109
Minotaur(Ф)			114	109	111
Combat(Ф)				107	111
Cyclops(Ф)			111	109	103
Yeti(Ф)		126	102	105	98
Bottler(Ф)		92	103	101	108
Laperouse(Ф)		117	101	103	96
La Trobe(Ф)		116	101	103	92
Leabrook(Ф)		126	97	100	95
HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE)					
Zena(Ф) CL				107	114
Maximus(Ф) CL		125	103	107	94
Spartacus CL(Ф)		120	100	104	91
Titan AX(Ф)					92
Sowing date	**16 May**	**20 May**	**14 May**	**20 May**	**24 May**
Rainfall J–M (mm)	**74**	**60**	**250**	**255**	**383**
Rainfall A–O (mm)	**162**	**185**	**446**	**239**	**371**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 4: Merriwagga main season barley.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	**1.37**	**0.99**	**4.23**	**4.84**	**5.36**
Minotaur(Ф)			115	111	103
Rosalind(Ф)	115	148	108	107	101
Cyclops(Ф)			111	108	99
RGT Planet(Ф)	93	102	101	111	113
Combat(Ф)				111	113
Yeti(Ф)		130	115	102	91
Laperouse(Ф)	112	104	114	102	93
Leabrook(Ф)	117	129	99	101	97
Beast(Ф)		148	101	99	92
Bottler(Ф)	94	87	102	103	105
HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE)					
Zena(Ф) CL				107	106
Maximus(Ф) CL	119	140	114	100	89
Titan AX(Ф)					96
Spartacus CL(Ф)	116	141	106	96	90
Sowing date	**7 Jun**	**15 May**	**12 May**	**18 May**	**19 May**
Rainfall J–M (mm)	**41**	**47**	**170**	**144**	**133**
Rainfall A–O (mm)	**110**	**126**	**239**	**286**	**469**

Special thanks to 2022 trial cooperator, Palomar Partners.
Learn more via the NVT Long Term Yield Reporter

Table 5: Oaklands main season barley.					
Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		3.25	5.07	5.56	5.69
Rosalind(Φ)	Trial failed	112	109	110	110
Minotaur(Φ)			112	109	112
Cyclops(Φ)			106	107	114
Yeti(Φ)		106	106	104	113
RGT Planet(Φ)		103	111	109	102
Combat(Φ)				105	106
Laperouse(Φ)		101	103	101	110
Beast(Φ)		112	95	98	111
Leabrook(Φ)		109	95	97	111
Bottler(Φ)		97	105	102	101
HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE)					
Zena(Φ) CL				107	108
Maximus(Φ) CL		106	105	106	108
Spartacus CL(Φ)		107	100	103	103
Titan AX(Φ)					110
Sowing date	**31 May**	**17 May**	**19 May**	**21 May**	**17 May**
Rainfall J–M (mm)	**46**	**28**	**197**	**125**	**196**
Rainfall A–O (mm)	**125**	**115**	**365**	**231**	**482**

Special thanks to 2022 trial cooperator - permission to publish was not received.
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 2021 and 2022 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 2021.

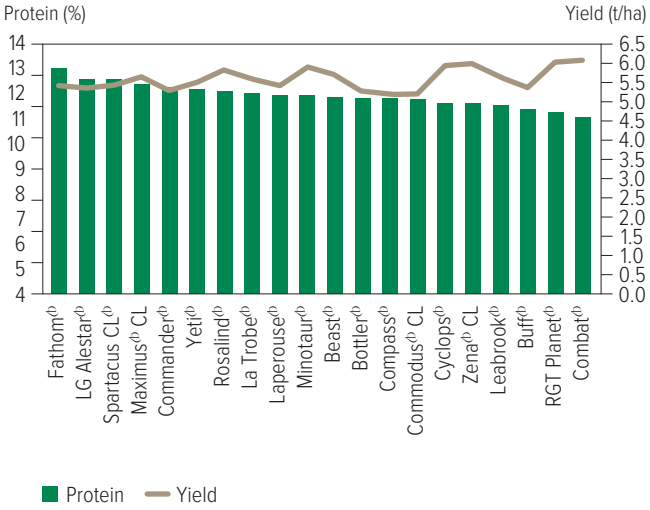
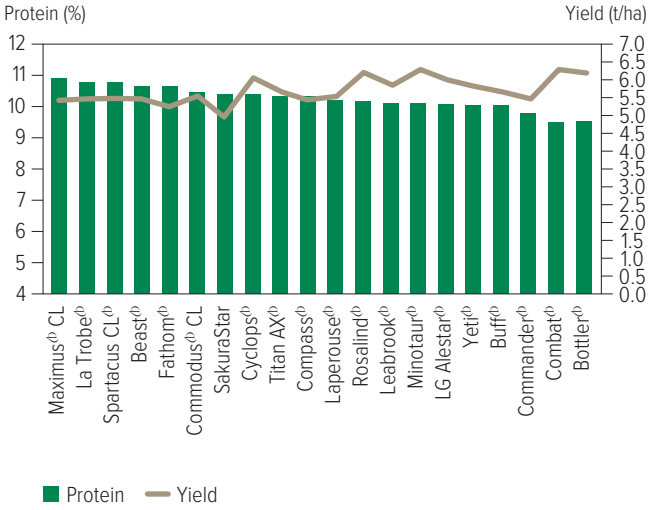


Figure 2: Protein (%) and yield (t/ha) comparisons for main season barley varieties from five NVT sites in Southern NSW in 2022.



Test weight comparisons

Figure 3: Test weight (kg/hL) comparisons for main season barley varieties from five NVT sites in Southern NSW in 2021.

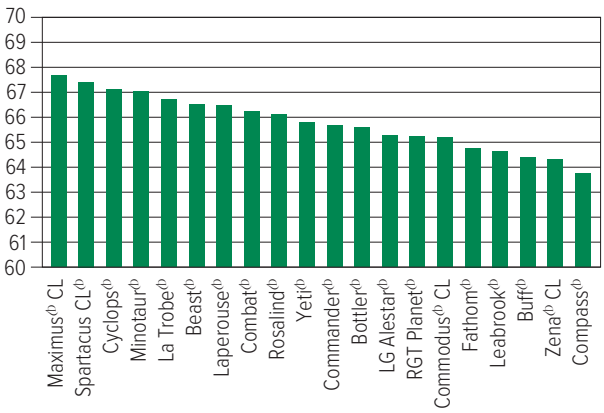
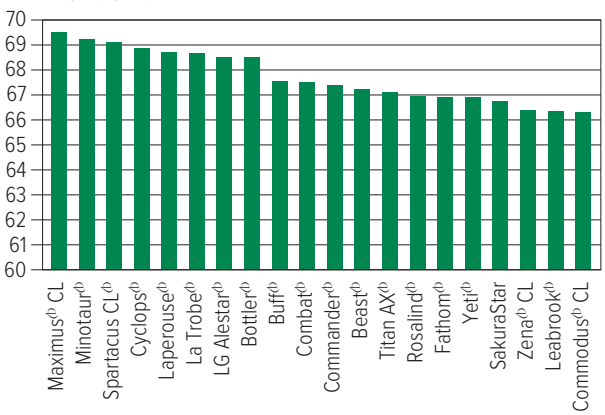


Figure 4: Test weight (kg/hL) comparisons for main season barley varieties from five NVT sites in Southern NSW in 2022.



Screenings comparisons

Figure 5: Screenings (<2.2mm) comparisons for main season barley varieties from five NVT sites in Southern NSW in 2021.

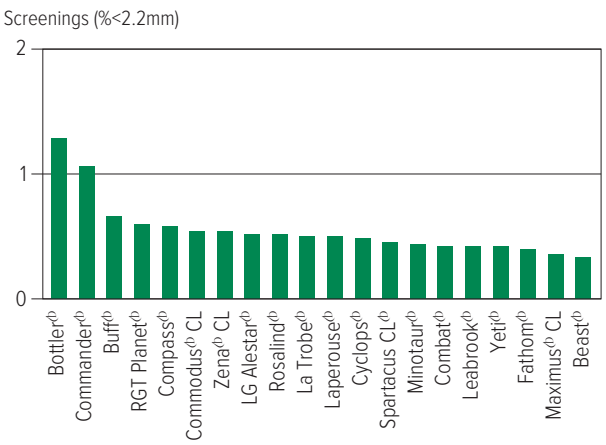
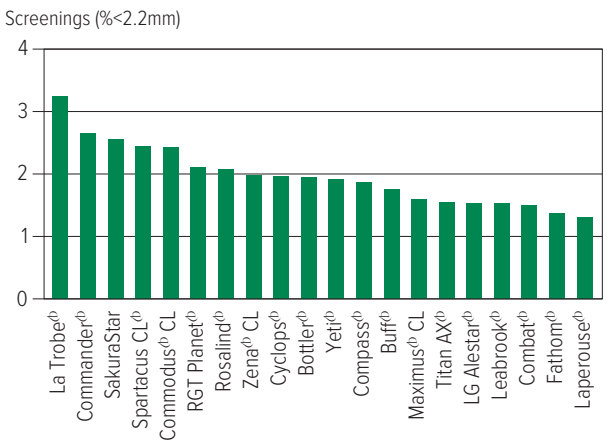


Figure 6: Screenings (<2.2mm) comparisons for main season barley varieties from five NVT sites in Southern NSW in 2022.



Retention comparisons

Figure 7: Retention (>2.5mm) comparisons for main season barley varieties from five NVT sites in Southern NSW in 2021.

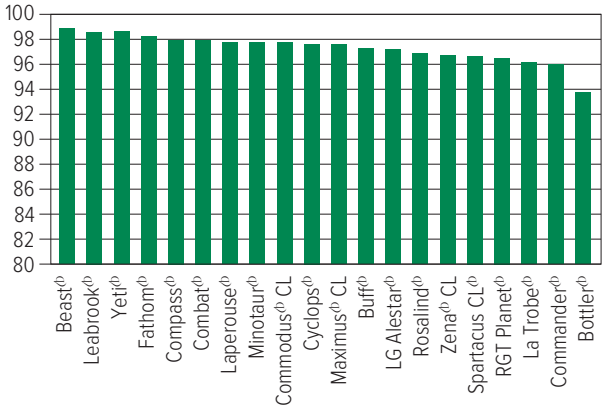
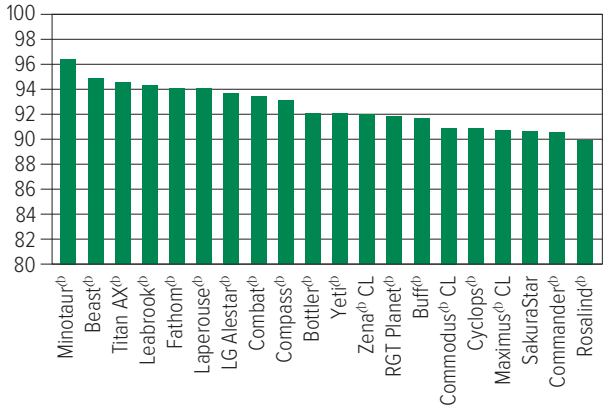


Figure 8: Retention (>2.5mm) comparisons for main season barley varieties from five NVT sites in Southern NSW in 2022.



Barley variety disease ratings – New South Wales

The following table contains 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 2023.

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	Crown rot	CCN	RLN resistance (*Pratylenchus thornei*)	RLN tolerance (*Pratylenchus thornei*)	RLN resistance (*Pratylenchus neglectus*)	RLN tolerance (*Pratylenchus neglectus*)	Ramularia
Beast(ф)	SVS	MSS	MS	S	MSS	R	S	MR	MRMS	T	MRMS	MI	SVS (P)
Bottler(ф)	SVS	MRMS	MSS	RMR	MR	R-RMR	SVS		RMR	MI	MS	MT	SVS (P)
Buff(ф)	SVS	MS	MSS	S	SVS	R	S		MS	MI	MRMS	MT	SVS (P)
Combat(ф)	MSS	MSS	MR	MS	S	R	S (P)	MRMS	MS		MR		SVS (P)
Commander(ф)	SVS	S	MSS	MSS	SVS	R	S	R	MRMS	MT	MRMS	MTMI	SVS (P)
Commodus(ф) CL	SVS	MS	MSS	MS	MS	RMR	S (P)	R	MRMS	MTMI	MRMS	TMT	SVS (P)
Compass(ф)	S	MSS	MS	MSS	S	R	S	R	MR	TMT	MRMS	TMT	SVS (P)
Cyclops(ф)	S	MS	MS	S	S	R	S (P)	S	MRMS	MTMI	MRMS	MI	SVS (P)
Fandaga(ф)	SVS	MRMS	S	R	MR	R-MR	MSS (P)	R	MR		MR		VS (P)
Fathom(ф)	S	S	MR	MRMS	MS	RMR	SVS	R	MR	TMT	MRMS	T	SVS (P)
La Trobe(ф)	SVS	MRMS	S	MSS	MS	R	S	R	MRMS	MT	MRMS	MT	SVS (P)
Laperouse(ф)	SVS	MS	MRMS	MSS	SVS	R-MR	S	S	MR	MTMI	MR	MI	VS (P)
Leabrook(ф)	SVS	MS	MS	S	SVS	RMR	S	RMR	RMR	TMT	MRMS	MT	VS (P)
LG Alestar(ф)	SVS	MS	S	MR	MRMS	R	S	R^ (P)	MR	MTMI	MR	I	SVS (P)
Maximus(ф) CL	S	MRMS	MS	MS	MSS	R	S	R	MR	MTMI	MRMS	MT	VS (P)
Minotaur(ф)	VS	MRMS	S	S	SVS	R	MS	R	MR	MT	MRMS	MI	SVS (P)
RGT Planet(ф)	MSS	MSS	SVS	RMR	MR	R-RMR	MSS	R (P)	MR	MI	MRMS	MT	VS (P)
Rosalind(ф)	MSS	MR	MSS	MSS	MR	R	MSS	R	MR	TMT	MRMS	MT	VS (P)
SakuraStar	SVS	MS	MSS	MSS	S	RMR	S	R	MR	MI	MR	MT	VS (P)
Spartacus CL(ф)	SVS	MSS	S	MSS	MRMS	R	S	R	MRMS	MI	MRMS	MII	VS (P)
Titan AX(ф)	SVS	MS	MSS	MS	S	R	MSS (P)	MR (P)	MR		R		VS (P)
Yeti(ф)	VS	MS	MRMS	MSS	S	MR	S	RMR	MR	TMT	MR	TMT	VS (P)
Zena(ф) CL	MS	MS	MSS	R	S	RMR	MSS (P)	R	MR		MRMS		VS (P)

Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant, (P) = provisional rating, - hyphen indicates a range, ^ 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.

Variety	Variety owner	Grain classification	End point royalty* ($)	Comments supplied by variety owner
Koala(Φ)	National Oat Breeding Program	Grain	None provided.	High-yielding, tall dwarf variety with similar height to Bannister(Φ) and taller than Mitika(Φ), Bilby(Φ) or Kowari(Φ). Koala(Φ) has a mid-season maturity that can be seven days later to head compared with Bannister(Φ) and Williams(Φ). Early vigour is similar to Bannister(Φ)and slightly slower than Bilby(Φ) and Yallara(Φ). Commercialised by Seednet.

* EPR amount is ex-GST, (Φ) denotes Plant Breeder's Rights apply.

Refer to the latest *Crop Sowing Guide* for further information at grdc.com.au/nvt-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	2018	2019	2020	2021	2022
Mean yield (t/ha)	2.77	1.61	5.47	5.30	4.05
Williams[Ф]	98	92	118	107	113
Bannister[Ф]	101	87	110	111	110
Koala[Ф]	86	61	119	113	111
Bilby[Ф]	105	113	104	102	102
Kowari[Ф]	101	115	98	94	95
Possum	93	100	99	94	94
Mitika[Ф]	96	111	98	90	93
Durack[Ф]	96	111	79	79	83
Koorabup[Ф]	86	77	80	80	86
Yallara[Ф]	94	85	70	81	85
Sowing date	**16 May**	**20 May**	**19 May**	**16 May**	**23 May**
Rainfall J–M (mm)	**79**	**85**	**157**	**204**	**403**
Rainfall A–O (mm)	**173**	**206**	**378**	**228**	**720**

Special thanks to 2022 trial cooperator, Chivell Farms.
Learn more via the NVT Long Term Yield Reporter

Table 2: Merriwagga oat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			3.72	4.60	5.61
Bannister[Ф]	No trial	No trial	104	106	108
Koala[Ф]			98	107	110
Williams[Ф]			94	102	110
Bilby[Ф]			106	103	101
Kowari[Ф]			100	98	96
Possum			97	98	96
Mitika[Ф]			93	94	95
Durack[Ф]			82	85	87
Yallara[Ф]			73	81	89
Koorabup[Ф]			66	81	91
Sowing date			**12 May**	**18 May**	**19 May**
Rainfall J–M (mm)			**170**	**144**	**133**
Rainfall A–O (mm)			**239**	**286**	**469**

Special thanks to 2022 trial cooperator, Palomar Partners.
Learn more via the NVT Long Term Yield Reporter

Table 3: Wagga Wagga oat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		1.65	6.02	4.74	5.36
Bannister[Ф]	Compromised trial	88	107	105	112
Koala[Ф]		55	112	97	120
Bilby[Ф]		117	104	107	101
Williams[Ф]		93	105	92	114
Kowari[Ф]		118	99	100	94
Possum		99	100	96	95
Mitika[Ф]		111	96	91	92
Durack[Ф]		107	81	79	79
Yallara[Ф]		73	72	70	81
Koorabup[Ф]		64	75	62	86
Sowing date	**17 May**	**16 May**	**18 May**	**16 May**	**19 May**
Rainfall J–M (mm)	**83**	**81**	**123**	**267**	**229**
Rainfall A–O (mm)	**175**	**191**	**408**	**267**	**498**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Oat variety disease ratings – New South Wales

The following table contains 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 2023.

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)	Red leather leaf	Bacterial blight
Bannister[Φ]	S	MSS	MSS	MS	MSS	S
Bilby[Φ]	S	MS	MS	S	MS	SVS
Durack[Φ]	S	MSS	MSS	S	SVS	S
Koala[Φ]	MSS	MSS	MSS	MSS	S	S
Koorabup[Φ]	S	MSS	MSS	MSS	SVS	SVS
Kowari[Φ]	S	S	S	S	S	S
Mitika[Φ]	S	MSS	MSS	SVS	SVS	S
Mulgara[Φ]	MRMS	MR	MR	MS	SVS	MSS
Possum	SVS	MSS	MSS	S	SVS	SVS
Tungoo[Φ]	MS	MR	MR	MSS	MRMS	S
Williams[Φ]	S	MRMS	MRMS	MSS	MS	MSS
Yallara[Φ]	MSS	S	S	MSS	SVS	S

Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible.

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.

Variety	Variety owner	End point royalty* ($)	Comments supplied by variety owner
Bandit TT(ф)	Australian Grain Technologies	10.00	Triazine-tolerant, open-pollinated variety suitable to low rainfall environments. Very quick to flower.
DG Hotham TF	Nutrien Ag Solutions Ltd	-	Mid-maturing glyphosate tolerant Truflex® hybrid. Medium to tall plant height. Suited to medium to high-rainfall zones.
DG Torrens TT(ф)	Nutrien Ag Solutions Ltd	5.00	Early-mid maturing, open-pollinated, triazine-tolerant variety. Short-medium plant height. Suited to low-medium rainfall zones.
Hyola® Regiment XC	Pacific Seeds	-	Mid-maturity dual-herbicide stacked TruFlex® and Clearfield® hybrid. Suitable for medium and high-rainfall zones, dryland and irrigation. Medium height, vigorous early growth and even flowering.
Hyola® Solstice CL	Pacific Seeds	-	Mid-maturity Clearfield® tolerant hybrid. Suitable for medium and high-rainfall zones, dryland and irrigation. Medium height, vigorous early growth and even flowering.
HyTTec® Velocity	Nuseed Pty Ltd	5.00	An early maturing variety that exhibits impressive early vigour, with a compact plant height and improved pod shatter tolerance built in to improve harvesting.
InVigor® T 4511	BASF Australia	-	InVigor® T 4511 is an early-mid triazine-tolerant hybrid of medium height. With excellent early vigour InVigor® T 4511 is ideally suited to early and mid-season growing regions. With higher seedling vigour, higher oil and better blackleg tolerance InVigor® T 4511 is a replacement for InVigor® T 3510 and InVigor® T 4510.
Nuseed® Eagle TF	Nuseed Pty Ltd	-	A mid-maturity TruFlex® hybrid that performs well in mid to high-rainfall zones. Nuseed® Eagle TF gives growers confidence with extremely good early vigour and biomass, increasing integrated weed management options.
Nuseed® Hunter TF	Nuseed Pty Ltd	-	An early-mid maturity TruFlex® hybrid canola with adaptability from low to high-rainfall regions. It has improved pod shatter tolerance with a compact plant height, reducing head loss, and is suitable for medium to quick-growing regions.
PY520TC	Pioneer Hi-Bred Aust Pty Ltd	-	A mid-maturity hybrid suited to medium-long season environments. Triazine-tolerant and Clearfield®-tolerant variety.
Renegade TT(ф)	Australian Grain Technologies	10.00	Triazine-tolerant, open-pollinated variety. Quick to flower with best performance under medium yield potential conditions.
RGT Baseline TT	RAGT	10.00	Mid-maturing triazine-tolerant hybrid variety. Suited to medium to high-rainfall zones. Medium-tall height. Marketed by Seed Force, an RAGT Company.
VICTORY® V55-04TF	Cargill	-	First release TruFlex® high stability oil hybrid in Australia. Mid-maturity variety. Preferred growing regions Victoria, South Australia and southern NSW. Medium height, replacing VICTORY® V5003RR. Marketed by AWB under contract.

* EPR amount is ex-GST, (ф) denotes Plant Breeder's Rights apply.

Refer to the latest *Crop Sowing Guide* for further information at grdc.com.au/nvt-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	2018	2019	2020	2021	2022
Mean yield (t/ha)	0.83	1.22	2.78	3.22	2.81
Nuseed® Hunter TF					102
Nuseed® Eagle TF					114
InVigor® R 4520P		113	108	110	106
Pioneer® 44Y30 RR				109	106
Hyola® Regiment XC				108	98
Nuseed® Raptor TF		112	102	107	103
Pioneer® 44Y27 RR	119	114	100	110	97
InVigor® R 4022P		108	100	106	90
DG Bindo TF				95	104
Nuseed® Emu TF			93	111	69
Sowing date	**7 May**	**15 Apr**	**24 Apr**	**5 May**	**24 Apr**
Rainfall J–M (mm)	**47**	**76**	**122**	**261**	**187**
Rainfall A–O (mm)	**128**	**128**	**366**	**276**	**450**

Special thanks to 2022 trial cooperator, O'Hare.
Learn more via the NVT Long Term Yield Reporter

Table 2: Cootamundra med-high rainfall GLY.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	1.68	1.48	3.86	3.52	2.07
Hyola® Regiment XC				112	124
Nuseed® Hunter TF					117
Nuseed® Condor TF		114	111	113	124
InVigor® R 4520P		119	108	111	100
Nuseed® Eagle TF				110	122
Pioneer® 44Y30 RR			105	107	108
Nuseed® Raptor TF		106		107	124
Pioneer® 45Y28 RR	100		106	107	120
InVigor® R 4022P		110	101	102	89
DG Bindo TF					101
Sowing date	**2 May**	**29 Apr**	**17 Apr**	**23 Apr**	**2 May**
Rainfall J–M (mm)	**90**	**168**	**174**	**301**	**188**
Rainfall A–O (mm)	**173**	**189**	**485**	**425**	**640**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 3: Gerogery med-high rainfall GLY.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	1.44	1.96	3.09	3.32	2.14
InVigor® R 4520P		126	132	105	111
Nuseed® Hunter TF					111
Pioneer® 44Y30 RR			119	104	114
InVigor® R 4022P		117	120	99	99
Nuseed® Condor TF		114	97	112	108
Nuseed® Eagle TF				109	113
Pioneer® 45Y28 RR	101		99	107	113
Hyola® Regiment XC				113	97
Nuseed® Raptor TF		103		107	109
DG Bindo TF					101
Sowing date	**5 May**	**4 May**	**27 Apr**	**30 Apr**	**23 Apr**
Rainfall J–M (mm)	**79**	**85**	**157**	**204**	**375**
Rainfall A–O (mm)	**173**	**206**	**378**	**228**	**697**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 4: Lockhart med-high rainfall GLY.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	0.76	0.56	3.47	2.73	3.44
Nuseed® Eagle TF					111
InVigor® R 4520P		139	104	99	112
Nuseed® Hunter TF				100	106
Hyola® Regiment XC				107	100
Pioneer® 44Y30 RR				97	108
Nuseed® Raptor TF		108	103	102	101
Pioneer® 44Y27 RR	119	123	100	94	98
DG Hotham TF					104
InVigor® R 4022P		131	98	94	98
DG Bindo TF				100	99
Sowing date	**8 May**	**24 Apr**	**23 Apr**	**12 May**	**26 Apr**
Rainfall J–M (mm)	**96**	**60**	**250**	**255**	**383**
Rainfall A–O (mm)	**136**	**185**	**446**	**239**	**371**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 5: Temora med-high rainfall GLY.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	0.90	0.23	3.26	3.04	1.70
Hyola® Regiment XC				110	108
Nuseed® Condor TF		140	114	110	112
Nuseed® Eagle TF					113
Nuseed® Hunter TF					111
InVigor® R 4520P		146	105	105	113
Pioneer® 45Y28 RR	101			106	111
Nuseed® Raptor TF		117	104	107	105
Pioneer® 44Y30 RR				104	109
InVigor® R 4022P		129	94	100	100
DG Bindo TF					96
Sowing date	**9 May**	**1 May**	**21 Apr**	**7 May**	**3 May**
Rainfall J–M (mm)	**83**	**162**	**179**	**303**	**254**
Rainfall A–O (mm)	**151**	**138**	**429**	**331**	**610**

Special thanks to 2022 trial cooperator, Farmlink Research.
Learn more via the NVT Long Term Yield Reporter

Table 6: Wagga Wagga med-high rainfall GLY.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			3.03	4.13	2.97
Nuseed® Condor TF	No trial	No trial	112	113	109
Nuseed® Hunter TF					109
InVigor® R 4520P			109	110	112
Nuseed® Eagle TF				110	109
Hyola® Regiment XC				112	105
Pioneer® 45Y28 RR			109	107	108
Pioneer® 44Y30 RR			102	109	108
Nuseed® Raptor TF			102	108	103
InVigor® R 4022P			98	103	101
DG Bindo TF					96
Sowing date			**17 Apr**	**21 Apr**	**22 Apr**
Rainfall J–M (mm)			**123**	**267**	**229**
Rainfall A–O (mm)			**408**	**267**	**498**

Special thanks to 2022 trial cooperators, John and Brendan Pattison, Marrar.
Learn more via the NVT Long Term Yield Reporter

Table 7: Oaklands low-med rainfall GLY.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			3.28	3.63	2.62
InVigor® R 4520P	No trial	Trial failed	100	108	125
Nuseed® Hunter TF				109	108
Pioneer® 44Y27 RR			104	106	105
Pioneer® 44Y30 RR				104	105
InVigor® R 4022P			96	103	109
Nuseed® Raptor TF			96	103	108
Hyola® Garrison XC			97		93
Hyola® Battalion XC			94	96	88
Hyola® 410XX			98	93	87
Nuseed® Emu TF			95	98	80
Sowing date		**1 May**	**22 Apr**	**27 Apr**	**21 Apr**
Rainfall J–M (mm)		**28**	**197**	**125**	**196**
Rainfall A–O (mm)		**115**	**365**	**231**	**482**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 8: Beckom med-high rainfall IMI.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	0.69	0.76	2.84	3.16	2.87
Pioneer® 45Y95 CL					126
Pioneer® 44Y94 CL			110	112	123
Hyola® Solstice CL				113	86
Pioneer® 44Y90 CL	103	105	105		
PY520TC					107
Pioneer® 43Y92 CL	110	112	101	106	99
Saintly CL	102	106			
Hyola® Equinox CL			98	108	
VICTORY® V75-03CL	84	81	93	91	
VICTORY® V7002CL	77	75	89	89	
Sowing date	**7 May**	**15 Apr**	**24 Apr**	**5 May**	**24 Apr**
Rainfall J–M (mm)	**47**	**76**	**122**	**261**	**187**
Rainfall A–O (mm)	**128**	**128**	**366**	**276**	**450**

Special thanks to 2022 trial cooperator, O'Hare.
Learn more via the NVT Long Term Yield Reporter

Table 9: Cootamundra med-high rainfall IMI.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	2.21	1.54	3.93	3.21	
Pioneer® 45Y95 CL	112	115		118	Compromised trial
Hyola® Equinox CL			107	108	
Pioneer® 44Y94 CL		112	108	113	
Pioneer® 45Y93 CL	102	103	107	109	
Pioneer® 44Y90 CL	102	103	103		
Saintly CL	110	106			
Banker CL		100			
Pioneer® 45Y91 CL	97	96	100		
VICTORY® V75-03CL	87	87	92	89	
VICTORY® V7002CL	88	86	89		
Sowing date	**2 May**	**29 Apr**	**17 Apr**	**23 Apr**	**2 May**
Rainfall J–M (mm)	**90**	**168**	**174**	**301**	**188**
Rainfall A–O (mm)	**173**	**189**	**485**	**425**	**640**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 10: Gerogery med-high rainfall IMI.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	1.50	1.99	2.98	3.26	2.10
Pioneer® 44Y94 CL		112	120	108	133
Pioneer® 45Y95 CL	111	116		113	126
Pioneer® 45Y93 CL	98	102	117	107	122
Hyola® Solstice CL					90
Pioneer® 44Y90 CL	104	103	111		
PY520TC					108
Hyola® Equinox CL			89	107	
Pioneer® 45Y91 CL	91	95	105		
VICTORY® V75-03CL	87	83	81	93	
VICTORY® V7002CL	86	85	82		
Sowing date	**5 May**	**4 May**	**27 Apr**	**30 Apr**	**23 Apr**
Rainfall J–M (mm)	**79**	**85**	**157**	**204**	**375**
Rainfall A–O (mm)	**173**	**206**	**378**	**228**	**697**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 11: Lockhart med-high rainfall IMI.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	0.58	0.64	3.49	2.90	3.57
Pioneer® 45Y95 CL	125			106	121
Pioneer® 44Y94 CL			108	100	118
Hyola® Solstice CL				105	96
Pioneer® 44Y90 CL	101	105	104		
PY520TC					104
Pioneer® 43Y92 CL	105	116	100	96	101
Hyola® Equinox CL			97	101	
Saintly CL	90	117			
VICTORY® V75-03CL	90	77	95	99	
VICTORY® V7002CL	78	79	91	97	
Sowing date	**8 May**	**24 Apr**	**23 Apr**	**12 May**	**26 Apr**
Rainfall J–M (mm)	**96**	**60**	**250**	**255**	**383**
Rainfall A–O (mm)	**136**	**185**	**446**	**239**	**371**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 12: Temora med-high rainfall IMI.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	0.90	0.27	3.30	3.08	1.83
Pioneer® 45Y95 CL	111			110	121
Hyola® Solstice CL					107
Pioneer® 45Y93 CL		96		104	117
Pioneer® 44Y94 CL		116	105	108	117
Hyola® Equinox CL			105	106	
Pioneer® 44Y90 CL	102	100	103		
PY520TC					104
Pioneer® 45Y91 CL	92	87	106		
Pioneer® 43Y92 CL	107		94		
VICTORY® V75-03CL		73	94	94	
Sowing date	**9 May**	**1 May**	**21 Apr**	**7 May**	**3 May**
Rainfall J–M (mm)	**83**	**162**	**179**	**303**	**254**
Rainfall A–O (mm)	**151**	**138**	**429**	**331**	**610**

Special thanks to 2022 trial cooperator, Farmlink Research.
Learn more via the NVT Long Term Yield Reporter

Table 13: Wagga Wagga med-high rainfall IMI.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	1.73	1.35	3.43	3.62	2.92
Pioneer® 45Y95 CL	111	108		118	118
Hyola® Solstice CL					106
Pioneer® 44Y94 CL		111	105	116	115
Pioneer® 45Y93 CL		94	112	108	115
Hyola® Equinox CL			104	108	
Pioneer® 44Y90 CL	103	101	103		
PY520TC					103
Pioneer® 45Y91 CL	94	91	105		
VICTORY® V75-03CL		84	93	88	
VICTORY® V7002CL	88	89	90		
Sowing date	**2 May**	**18 Apr**	**17 Apr**	**21 Apr**	**22 Apr**
Rainfall J–M (mm)	**83**	**81**	**123**	**267**	**229**
Rainfall A–O (mm)	**175**	**191**	**408**	**267**	**498**

Special thanks to 2022 trial cooperators, John and Brendan Pattison, Marrar.
Learn more via the NVT Long Term Yield Reporter

Table 14: Oaklands low-med rainfall IMI.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			3.29	3.90	2.83
Pioneer® 44Y94 CL	No trial	Trial failed		108	118
Pioneer® 44Y90 CL			101		
Hyola® Solstice CL				98	
Pioneer® 43Y92 CL			98	98	98
Hyola® Equinox CL					80
VICTORY® V7002CL			88	91	
Sowing date		**1 May**	**22 Apr**	**27 Apr**	**21 Apr**
Rainfall J–M (mm)		**28**	**197**	**125**	**196**
Rainfall A–O (mm)		**115**	**365**	**231**	**482**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 15: Beckom med-high rainfall TT.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	0.82	1.10	2.53	2.79	2.40
HyTTec® Trifecta	131		116	116	125
Hyola® Blazer TT			116	113	134
HyTTec® Trophy	128	123	111	116	117
PY520TC					134
HyTTec® Trident	147	136	106	123	100
SF Dynatron TT™		113	112	110	124
InVigor® T 4511				114	108
RGT Baseline TT				97	139
InVigor® T 4510	121	119	107	113	105
RGT Capacity™ TT		108	109	106	115
Sowing date	**7 May**	**15 Apr**	**24 Apr**	**5 May**	**24 Apr**
Rainfall J–M (mm)	**47**	**76**	**122**	**261**	**187**
Rainfall A–O (mm)	**128**	**128**	**366**	**276**	**450**

Special thanks to 2022 trial cooperator, O'Hare.
Learn more via the NVT Long Term Yield Reporter

Table 16: Cootamundra med-high rainfall TT.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	1.87	1.41	3.55	3.01	1.98
HyTTec® Trifecta		125	119	124	137
Hyola® Blazer TT			115	120	135
HyTTec® Trophy	115	118	113	118	132
PY520TC				115	128
InVigor® T 4511				113	121
SF Dynatron TT™		114	110	114	118
InVigor® T 4510	117	117	108	112	115
RGT Capacity™ TT		112	108	110	107
InVigor® T 6010		109	109	110	102
RGT Baseline TT				110	115
Sowing date	**2 May**	**29 Apr**	**17 Apr**	**23 Apr**	**2 May**
Rainfall J–M (mm)	**90**	**168**	**174**	**301**	**188**
Rainfall A–O (mm)	**173**	**189**	**485**	**425**	**640**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 17: Gerogery med-high rainfall TT.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	1.13	1.54	2.52	2.97	1.95
Hyola® Blazer TT			122	115	133
HyTTec® Trifecta		131	115	119	125
SF Dynatron TT™			128	109	125
HyTTec® Trophy	123	123	112	113	125
InVigor® T 4510	123	124	118	108	115
PY520TC				111	129
RGT Capacity™ TT		119	126	106	113
InVigor® T 4511				109	117
InVigor® LT 4530P			130	101	101
InVigor® T 6010		115	125	107	107
Sowing date	**5 May**	**4 May**	**27 Apr**	**30 Apr**	**23 Apr**
Rainfall J–M (mm)	**79**	**85**	**157**	**204**	**375**
Rainfall A–O (mm)	**173**	**206**	**378**	**228**	**697**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 18: Lockhart med-high rainfall TT.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	0.69		3.28	2.56	2.96
Hyola® Blazer TT		Trial results below standard	112	106	128
HyTTec® Trifecta	136		112	108	123
RGT Baseline TT					128
PY520TC					126
DG BIDGEE TT$^{\phi}$				111	118
SF Dynatron TT™			108	102	121
HyTTec® Trophy	130		108	102	115
RGT Capacity™ TT			106	102	116
InVigor® T 4511				100	109
HyTTec® Trident	157		104	98	102
Sowing date	**8 May**	**24 Apr**	**23 Apr**	**12 May**	**26 Apr**
Rainfall J–M (mm)	**96**	**60**	**250**	**255**	**383**
Rainfall A–O (mm)	**136**	**185**	**446**	**239**	**371**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 19: Temora med-high rainfall TT.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	0.63	0.26	2.89	2.64	1.50
HyTTec® Trifecta	126		124	116	128
Hyola® Blazer TT			120	113	128
PY520TC					124
HyTTec® Trophy	124	136	110	113	119
RGT Baseline TT					123
InVigor® T 6010		116	120	104	118
SF Dynatron TT™		123	111	108	120
DG BIDGEE TT$^{\phi}$				103	115
InVigor® T 4511				109	113
RGT Capacity™ TT		122	110	105	115
Sowing date	**9 May**	**1 May**	**21 Apr**	**7 May**	**3 May**
Rainfall J–M (mm)	**83**	**162**	**179**	**303**	**254**
Rainfall A–O (mm)	**151**	**138**	**429**	**331**	**610**

Special thanks to 2022 trial cooperator, Farmlink Research.
Learn more via the NVT Long Term Yield Reporter

Table 20: Wagga Wagga med-high rainfall TT.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	1.59	1.32	2.73	3.59	2.80
HyTTec® Trifecta	118	117	122	124	120
Hyola® Blazer TT		110	118	120	120
HyTTec® Trophy	116	116	110	119	114
SF Dynatron TT™		113	112	114	116
PY520TC				115	117
InVigor® T 4511				115	110
InVigor® T 4510	115	120	105	113	109
RGT Capacity™ TT		112	111	110	112
InVigor® T 6010		104	119	107	114
RGT Baseline TT				107	116
Sowing date	**2 May**	**18 Apr**	**17 Apr**	**21 Apr**	**22 Apr**
Rainfall J–M (mm)	**83**	**81**	**123**	**267**	**229**
Rainfall A–O (mm)	**175**	**191**	**408**	**267**	**498**

Special thanks to 2022 trial cooperators, John and Brendan Pattison, Marrar.
Learn more via the NVT Long Term Yield Reporter

Table 21: Oaklands low-med rainfall TT.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			3.20	3.33	2.44
Hyola® Blazer TT	No trial	Trial failed	110		123
SF Dynatron TT™			105		118
HyTTec® Trophy			107	109	109
InVigor® LT 4530P			101	108	116
HyTTec® Trident			107	112	102
InVigor® T 4510			102	109	110
Renegade TT$^{\phi}$					110
HyTTec® Velocity			104		97
RGT Capacity™ TT			109	103	98
DG BIDGEE TT$^{\phi}$					103
Sowing date		**30 Apr**	**22 Apr**	**27 Apr**	**21 Apr**
Rainfall J–M (mm)		**28**	**197**	**125**	**196**
Rainfall A–O (mm)		**115**	**365**	**231**	**482**

Special thanks to 2022 trial cooperator - permission to publish was not received.
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 2023.
Varieties are listed in alphabetical order and disease ratings are colour-coded to match resistance and susceptibility ratings.

Table 22: Canola disease guide – autumn 2023 ratings.

Variety	2023 autumn blackleg rating			Type
	Bare	Fluopyram (e.g. ILeVO®)	Pydiflumetofen (e.g. Saltro®)	
CONVENTIONAL VARIETIES				
Nuseed® Quartz	R			Hybrid
Nuseed® Diamond	RMR	R	R	Hybrid
Outlaw$^{\Phi}$	RMR	R	R	Open pollinated
TRIAZINE-TOLERANT VARIETIES				
HyTTec® Trident	R			Hybrid
HyTTec® Trifecta	R			Hybrid
HyTTec® Trophy	R	R	R	Hybrid
Hyola® Blazer TT	R			Hybrid
DG BIDGEE TT$^{\Phi}$	R	R	R	Open pollinated
InVigor® T 4511	R	R		Hybrid
DG MURRAY TT$^{\Phi}$	R			Open pollinated
DG Torrens TT$^{\Phi}$	R		R	Open pollinated
Monola® H421TT	RMR			High stability oil, hybrid
Monola® 420TT	RMR			High stability oil, open pollinated
ATR-Bluefin$^{\Phi}$	RMR			Open pollinated
InVigor® T 4510	MR	R	R	Hybrid
SF Spark TT	MR	R	R	Hybrid
HyTTec® Velocity	MR			Hybrid
Renegade TT$^{\Phi}$	MR	R	R	Open pollinated
Monola® 422TT	MR			High stability oil, open pollinated
ATR-Stingray$^{\Phi}$	MRMS	R	R	Open pollinated
RGT Baseline™ TT	MRMS	R	R	Hybrid
ATR-Swordfish$^{\Phi}$	MRMS			Open pollinated
SF Dynatron™ TT	MRMS	R	R	Hybrid
InVigor® T 6010	MRMS	R	R	Hybrid
RGT Capacity™ TT	MRMS	R	R	Hybrid
Bandit TT$^{\Phi}$	MRMS	R	R	Open pollinated
AFP Cutubury$^{\Phi}$	MS	RMR	RMR	Open pollinated
ATR-Bonito$^{\Phi}$	MS	RMR	R	Open pollinated
IMIDAZOLINONE-TOLERANT VARIETIES				
Hyola® Feast CL	R			Winter, hybrid, Clearfield®
RGT Nizza CL	R			Winter, hybrid, Clearfield®
Hyola® Solstice CL	R			Hybrid, Clearfield®
Captain CL	R			Winter, hybrid, Clearfield®
Hyola® Equinox CL	R			Hybrid, Clearfield®
Pioneer® 45Y93 CL	R		R	Hybrid, Clearfield®
RGT Clavier™ CL	R			Winter, hybrid, Clearfield®
Hyola® 970CL	R			Winter, hybrid, Clearfield®
Phoenix CL	R			Winter, hybrid, Clearfield®
Nuseed® Ceres IMI	R			Hybrid
VICTORY® V7002CL	R			High stability oil, hybrid, Clearfield®

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 2023 ratings (continued).

Variety	2023 autumn blackleg rating			Type
	Bare	Fluopyram (e.g. ILeVO®)	Pydiflumetofen (e.g. Saltro®)	
Pioneer® 43Y92 CL	R		R	Hybrid, Clearfield®
Pioneer® 45Y95 CL	R		R	Hybrid, Clearfield®
Pioneer® 44Y94 CL	R		R	Hybrid, Clearfield®
VICTORY® V75-03CL	RMR	R		High stability oil, hybrid, Clearfield®
IMIDAZOLINONE AND TRIAZINE-TOLERANT VARIETIES				
Hyola® Enforcer CT	R			Hybrid, Clearfield®, Triazine
Pioneer® PY520 TC	RMR	R	R	Hybrid, Clearfield®, Triazine
GLYPHOSATE-TOLERANT VARIETIES				
Nuseed® Raptor TF	R			Hybrid, TruFlex®
Nuseed® Eagle TF	R		R	Hybrid, TruFlex®
DG Hotham TF	R		R	Hybrid, TruFlex®
VICTORY® V55-04TF	R	R		High stability oil, hybrid, TruFlex®
VICTORY® V5003RR	R	R		High stability oil, hybrid, Roundup Ready®
DG Lofty TF	R		R	Hybrid, TruFlex®
Pioneer® 45Y28RR	RMR		R	Hybrid, Roundup Ready®
Nuseed® Hunter TF	RMR		R	Hybrid, TruFlex®
Pioneer® 44Y27 RR	RMR	R	R	Hybrid, Roundup Ready®
InVigor® LR 4540P	RMR	R		Hybrid, LibertyLink®, TruFlex®
Pioneer® 44Y30 RR	RMR		R	Hybrid, Roundup Ready®
Nuseed® Emu TF	MR		R	Hybrid, TruFlex®
Hyola® 410XX	MR			Hybrid, TruFlex®
DG Bindo TF	MR			Hybrid, TruFlex®
InVigor® R 4022P	MR	R		Hybrid, TruFlex®
InVigor® R 4520P	MRMS	R		Hybrid, TruFlex®
GLYPHOSATE AND IMIDAZOLINONE-TOLERANT VARIETIES				
Hyola® Regiment XC	R			Hybrid, TruFlex®, Clearfield®
Hyola® Battalion XC	R			Hybrid, TruFlex®, Clearfield®
Hyola® Garrison XC	R			Hybrid, TruFlex®, Clearfield®
GLUFOSINATE AND TRIAZINE-TOLERANT VARIETIES				
InVigor® LT 4530P	RMR	R		Hybrid, LibertyLink®, Triazine

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	2018	2019	2020	2021	2022
Mean yield (t/ha)			**2.14**	**2.22**	**2.18**
CBA Captain[Ф]	No trial	No trial	105	106	117
Neelam[Ф]			101		101
PBA Striker[Ф]			102	114	84
PBA Slasher[Ф]			102	112	85
PBA Maiden[Ф]			97	104	83
PBA Seamer[Ф]			92	80	96
Genesis™ 090					99
PBA Boundary[Ф]			87	81	79
Sowing date			**8 May**	**18 May**	**9 May**
Rainfall J–M (mm)			**151**	**173**	**275**
Rainfall A–O (mm)			**280**	**291**	**449**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Refer to the latest *Crop Sowing Guide* for further information at grdc.com.au/nvt-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 2023.

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 thornei*)	RLN tolerance (*Pratylenchus thornei*)	RLN resistance (*Pratylenchus neglectus*)	RLN tolerance (*Pratylenchus neglectus*)
DESI							
CBA Captain[Φ]	S	MS	S	MS	MT	MR	MT
Kyabra[Φ]	VS	VS	VS	S	MT	MRMS	MT
Neelam[Φ]	S	S		MS	MI	MRMS	MI
PBA Boundary[Φ]	S	S	VS	MRMS	MT	RMR	MI
PBA Drummond[Φ]	VS	VS	VS	MRMS	MT	MR	TMT
PBA HatTrick[Φ]	S	S	S	MRMS	MTMI	MRMS	MT
PBA Maiden[Φ]	S	S		MRMS	I	MRMS	MI
PBA Seamer[Φ]	S	MS	S	MRMS	MTMI	MRMS	MI
PBA Slasher[Φ]	S	S		MRMS	MT	MRMS	MI
PBA Striker[Φ]	S	S		MRMS	TMT	MRMS	MI
KABULI							
Almaz[Φ]	S	MS		S	IVI	MRMS	MII
Genesis™ 090	MS	MS		MSS	I	MRMS	IVI
Genesis™ Kalkee	S	S		MS	MI	MRMS	VI
PBA Magnus[Φ]	S	MS		MSS	I	MR	MII
PBA Monarch[Φ]	S	MS		MS	MII	MRMS	I
PBA Royal[Φ]	MS	MS		MS	MI	MR	VI

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	2018	2019	2020	2021	2022
Mean yield (t/ha)			**4.22**	**4.59**	**3.29**
PBA Marne[Ф]	No trial	No trial	99	108	97
PBA Samira[Ф]			100	96	107
PBA Amberley[Ф]			100	98	
PBA Zahra[Ф]			95	90	
Fiesta VF			97	97	92
Farah[Ф]			96	96	89
PBA Bendoc[Ф]			90	91	78
Nura[Ф]			90	92	69
PBA Rana[Ф]				83	77
Sowing date			**21 Apr**	**26 Apr**	**26 May**
Rainfall J–M (mm)			**142**	**248**	**383**
Rainfall A–O (mm)			**401**	**343**	**371**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Refer to the latest *Crop Sowing Guide* for further information at grdc.com.au/nvt-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 2023.

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	MSS	S
Doza(b)	VS	S	S	MSS	MR
Farah(b)	S	S	S	MS	VS
FBA Ayla(b)		S	S	MS	MR
Fiesta VF	S	S	S	MS	VS
Nura(b)	MR (P)	S	MS	MS	VS
PBA Amberley(b)	MR	S	MRMS	MS	VS
PBA Bendoc(b)	MR	S	S	MRMS	VS
PBA Marne(b)	MS (P)	S	MS (P)	MS	MRMS
PBA Nanu(b)		S	S	MS	MR
PBA Nasma(b)	S	S	S	MSS	MRMS
PBA Rana(b)	MRMS	S	MS	MS	VS
PBA Samira(b)	MR (P)	S	MS	MRMS	S
PBA Warda(b)	S	S	S	MRMS	MRMS

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

FIELD PEA

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	2018	2019	2020	2021	2022
Mean yield (t/ha)	0.68	0.66	2.34	2.35	1.50
PBA Pearl	102	114	95	110	133
PBA Butler(Ф)	88	85	111	112	112
PBA Taylor(Ф)	107	93	117	107	95
PBA Noosa(Ф)	108	100	100	103	100
PBA Percy	96	118	84	97	120
PBA Wharton(Ф)	114	105	105	96	86
PBA Oura(Ф)	105	112	92	96	104
Sturt	103	114	89	96	108
Kaspa(Ф)	76	70	106	106	94
GIA Ourstar(Ф)*			74	81	90
Sowing date	**6 Jun**	**28 May**	**28 May**	**29 May**	**1 Jun**
Rainfall J–M (mm)	**62**	**76**	**142**	**151**	**245**
Rainfall A–O (mm)	**158**	**211**	**401**	**365**	**514**

Special thanks to 2022 trial cooperator - permission to publish was not received.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 2: Deniliquin field pea.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		0.58	1.32	1.91	1.03
PBA Pearl	Trial failed	98	96	115	162
PBA Butler(Ф)		91	108	108	118
PBA Percy		109	88	111	117
PBA Noosa(Ф)		89	101	99	129
Sturt		105	91	104	111
PBA Oura(Ф)		105	94	101	107
PBA Taylor(Ф)		100	111	94	96
Kaspa(Ф)		84	108	104	88
PBA Wharton(Ф)		105	102	90	84
GIA Ourstar(Ф)*			82	97	83
Sowing date	**5 Jun**	**27 May**	**27 May**	**28 May**	**25 May**
Rainfall J–M (mm)	**28**	**49**	**122**	**90**	**73**
Rainfall A–O (mm)	**125**	**152**	**308**	**249**	**471**

Special thanks to 2022 trial cooperator - permission to publish was not received.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

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

Table 3: Rankins Springs field pea.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			2.47		2.51
PBA Pearl	No trial	No trial	111	Compromised trial	138
PBA Percy			102		124
PBA Butler(D)			109		111
Sturt			99		110
PBA Oura(D)			98		105
PBA Noosa(D)			100		102
PBA Taylor(D)			104		92
Kaspa(D)			101		93
GIA Ourstar(D)*			87		94
PBA Wharton(D)			96		84
Sowing date			**8 May**	**18 May**	**19 May**
Rainfall J–M (mm)			**151**	**173**	**275**
Rainfall A–O (mm)			**280**	**291**	**449**

Special thanks to 2022 trial cooperator - permission to publish was not received.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 4: Temora field pea.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	1.07	0.63	2.20	2.00	1.29
PBA Pearl	89	75	111	129	129
PBA Taylor(D)	105	119	114	107	111
PBA Butler(D)	91	64	115	117	124
PBA Wharton(D)	109	140	100	91	88
PBA Noosa(D)	87	111	112	98	88
PBA Percy	102	79	87	111	113
PBA Oura(D)	102	109	94	99	96
Sturt	101	101	92	101	98
Kaspa(D)	86	52	105	95	99
GIA Ourstar(D)*			72	76	64
Sowing date	**24 May**	**29 May**	**19 May**	**25 May**	**25 May**
Rainfall J–M (mm)	**83**	**162**	**179**	**303**	**254**
Rainfall A–O (mm)	**151**	**138**	**429**	**331**	**610**

Special thanks to 2022 trial cooperator - permission to publish was not received.
* herbicide-tolerant variety. 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 2023.

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*)
GIA Kastar(D)	S	S	RMR	MR	MS
GIA Ourstar(D)	S (P)	S	S	MRMS	MSS
Kaspa(D)	S	S	S	RMR	MRMS
PBA Butler(D)	MS	S	S	RMR	MRMS
PBA Noosa(D)	S	MS	S	MR	MRMS
PBA Oura(D)	MS	S	S	MR	MRMS
PBA Pearl	MS	S	S	MR	MRMS
PBA Percy	MRMS	S	S	RMR	RMR
PBA Taylor(D)	S	S	S	RMR	MRMS
PBA Wharton(D)	S	S	RMR	MR	MRMS

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

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.

Variety	Variety owner	Grain classification	End point royalty* ($)	Comments supplied by variety owner
GIA Leader(Φ)	Grains Innovation Australia	Red	5.40	An imidazolinone-tolerant red lentil variety well suited to reliable lentil growing areas in medium to higher-rainfall zones. GIA Leader(Φ) has a good level of foliar disease resistance (both Botrytis grey mould (BGM) and Ascochyta blight) and improved vegetative frost tolerance compared to PBA Hurricane XT(Φ). This variety has imidazolinone and soil residue sulfonylurea herbicide tolerance similar to existing XT varieties. GIA Leader(Φ) has mid to late flowering and maturity, similar to Nugget, making it well suited to early sowing. It has a spreading plant type that can assist protection of pods at maturity. Uniform grey seed coat and the grain is well suited to the medium-sized Nugget-type market.
GIA Lightning(Φ)	Grains Innovation Australia	Red	5.40	An imidazolinone-tolerant, high-yielding small round red lentil with superior adaptation to light textured sandy soils than other lentil varieties, making it suitable for growing in Mallee regions. GIA Lightning(Φ) has an upright plant type, which aids harvestability. This variety has imidazolinone and soil residue sulfonylurea herbicide tolerance similar to existing XT varieties. GIA Lightning(Φ) is mid to late flowering with mid-maturity, has moderate resistance to pod drop and lodging, and is resistant/moderately resistant to shattering at maturity. GIA Lightning(Φ) has the same Ascochyta blight disease rating as GIA Thunder(Φ) but is more susceptible to BGM. GIA Lightning(Φ) is not well suited to soil types or regions prone to BGM.
GIA Metro(Φ)	Grains Innovation Australia	Red	7.50	The first lentil to combine imidazolinone and metribuzin herbicide tolerances. This unique combination of herbicide tolerance will expand weed control options in lentil, particularly in light-textured soils prone to damage from the application of Group 5 (previously Group C) herbicides. Grain yield is significantly lower than existing lentil varieties in the absence of weed pressure, or where weeds are controlled effectively without crop damage from Group 5 herbicides. GIA Metro(Φ) is a large, lens-shaped red lentil with a grey seed coat.
GIA Sire(Φ)	Grains Innovation Australia	Red	TBC	The first lentil with improved tolerance to Clopyralid soil residues from a prior crop applied according to product label directions. GIA Sire(Φ) is a premium, small, round red lentil with a grey seed coat. Its tolerance to imidazolinone and soil residue sulfonylurea is similar to existing XT varieties. GIA Sire(Φ) is slow-growing with smaller plant parts, increased basal branching and shorter plant height compared to other lentil varieties. It is best suited to agronomic practices such as early sowing and lentil growing environments that maximise growth, harvest height and grain yield. Avoid growing this variety in low-fertility sandy soils or low-rainfall, frost-prone environments. Seed of GIA Sire(Φ) is available only under small, scale-controlled release.
GIA Thunder(Φ)	Grains Innovation Australia	Red	5.40	A broadly adapted, imidazolinone-tolerant, small, round red lentil, offering growers high and stable yields across all lentil growing regions. GIA Thunder(Φ) is a mid-flowering and mid-maturing variety, with better vegetative frost tolerance than PBA HighlandXT(Φ), PBA Hallmark XT(Φ), PBA Hurricane XT(Φ) and GIA Lightning(Φ). GIA Thunder(Φ) has similar Group 2 (imidazolinone and soil residue sulfonylurea) herbicide tolerance to existing XT varieties. GIA Thunder(Φ) has the same Ascochyta blight disease rating as PBA Hurricane XT(Φ) and GIA Lightning(Φ) but an improved BGM rating over both. The grain is well suited to the small premium round grain market with a uniform grey seed coat with seed size similar to PBA Hurricane XT(Φ).

* EPR amount is ex-GST, (Φ) denotes Plant Breeder's Rights apply, TBC denotes to be confirmed.

The table above has been updated in this ***Revised May 2023*** harvest report. Please disregard all previous versions of this report, which regrettably contained incorrect information. Of specific importance, it should be noted that GIA Thunder(Φ) lentil is in the same small round lentil market class as PBA Hurricane XT(Φ); this was incorrectly stated in previous editions.

Refer to the latest *Crop Sowing Guide* for further information at grdc.com.au/nvt-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	2018	2019	2020	2021	2022
Mean yield (t/ha)			**2.61**	**0.90**	**3.41**
GIA Thunder(Ф)*	No trial	No trial	109	105	123
PBA Kelpie XT(Ф)*			117	88	104
PBA Jumbo2(Ф)			114	136	92
GIA Lightning(Ф)*			89	98	116
PBA HighlandXT(Ф)*			98	96	106
PBA Hurricane XT(Ф)*			92	93	107
GIA Leader(Ф)*			89	97	106
PBA Hallmark XT(Ф)*			88	88	108
PBA Blitz(Ф)			114		80
PBA Ace(Ф)			85	121	90
Sowing date			**25 May**	**21 May**	**23 May**
Rainfall J–M (mm)			**123**	**267**	**229**
Rainfall A–O (mm)			**408**	**267**	**498**

Special thanks to 2022 trial cooperator - permission to publish was not received.
* 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 2023.

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*)
GIA Leader$^{\Phi}$	MR	MR	MRMS (P)	R	MR
GIA Lightning$^{\Phi}$	MRMS	R	MS	R	MR
GIA Metro$^{\Phi}$	RMR	MR	MRMS	MR	MRMS
GIA Sire$^{\Phi}$	MRMS (P)	R	MS	MR	MR
GIA Thunder$^{\Phi}$	MRMS	R	MRMS	MR	R
Nipper$^{\Phi}$	MR	MRMS	MRMS (P)	RMR	MR
PBA Ace$^{\Phi}$	MR	R	MS	MR	MRMS
PBA Blitz$^{\Phi}$	MR	MRMS	MS (P)	MR	MRMS
PBA Bolt$^{\Phi}$	MRMS	MR	S	MR	MR
PBA Hallmark XT$^{\Phi}$	MRMS	RMR	MRMS (P)	MR	MRMS
PBA HighlandXT$^{\Phi}$	MR	MR	MS	MR	MRMS
PBA Hurricane XT$^{\Phi}$	MRMS	RMR	MS	MRMS	MRMS
PBA Jumbo2$^{\Phi}$	RMR (P)	R	MR (P)	MR	MRMS
PBA Kelpie XT$^{\Phi}$	MRMS	MRMS	MS (P)	MRMS	MRMS

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

LUPIN

New lupin varieties

The following information is for lupin varieties released in the 12 months to the date when the MET analysis was published on NVT online.

Variety	Variety owner	End point royalty* ($)	Comments supplied by variety owner
Lawler[Φ]	Australian Grain Technologies	4.00	A widely adapted variety, offering growers high and stable yields across all NSW, Victorian and South Australian lupin growing regions.

* EPR amount is ex-GST, [Φ] denotes Plant Breeder's Rights apply.

Refer to the latest *Crop Sowing Guide* for further information at grdc.com.au/nvt-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	2018	2019	2020	2021	2022
Mean yield (t/ha)		0.19	1.57	2.38	3.09
PBA Gunyidi[Ф]	Trial failed	95	110	96	110
Jenabillup[Ф]		78	105		115
PBA Bateman[Ф]		89	98	95	112
PBA Jurien[Ф]		70	83	90	120
Quilinock		72	96	90	112
PBA Barlock[Ф]		65	85	89	118
Mandelup[Ф]		86	87	96	106
Coyote[Ф]			90	104	97
Lawler[Ф]				103	97
Wonga		69	92	91	103
Sowing date	**28 Apr**	**1 May**	**22 Apr**	**6 May**	**10 May**
Rainfall J–M (mm)	**61**	**147**	**124**	**246**	**187**
Rainfall A–O (mm)	**144**	**121**	**354**	**282**	**449**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

Table 2: Harden narrow-leaf lupin.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	1.12	0.71	4.36	3.95	3.93
PBA Gunyidi[Ф]		100	104	102	100
PBA Bateman[Ф]	103	90	100	100	104
Coyote[Ф]	106		98	96	106
Jenabillup[Ф]	95	86	100		98
Lawler[Ф]				97	105
PBA Jurien[Ф]		70	93	101	107
Mandelup[Ф]		84	94	100	103
Quilinock	92	79	95	106	97
PBA Barlock[Ф]		69	92	104	103
Wonga	84	77	91	108	91
Sowing date	**15 May**	**30 Apr**	**28 Apr**	**8 May**	**7 May**
Rainfall J–M (mm)	**79**	**282**	**107**	**363**	**197**
Rainfall A–O (mm)	**142**	**160**	**569**	**390**	**616**

Special thanks to 2022 trial cooperator - permission to publish was not received.
Learn more via the NVT Long Term Yield Reporter

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

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	0.86	0.78			2.31
Jenabillup[Ф]	102	79	Trial failed	Compromised trial	118
PBA Gunyidi[Ф]		91			111
PBA Bateman[Ф]	98	88			111
Quilinock	95	78			115
PBA Jurien[Ф]		75			118
PBA Barlock[Ф]		72			118
Mandelup[Ф]		90			105
Wonga	91	80			108
Coyote[Ф]	94				94
Lawler[Ф]					94
Sowing date	**2 May**	**7 May**	**16 May**	**14 May**	**29 May**
Rainfall J–M (mm)	**106**	**37**	**177**	**222**	**229**
Rainfall A–O (mm)	**137**	**247**	**404**	**282**	**498**

Special thanks to 2022 trial cooperator, Wyrilla Past Co.
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 2023.

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
Coyote[Φ]	MRMS	MRMS	MRMS	S
Jenabillup[Φ]	MS	MRMS	MR	MS
Lawler[Φ]	MR	MRMS	MS	MR
Mandelup[Φ]	MRMS	MRMS	S	RMR
PBA Barlock[Φ]	RMR	MR	MR	MR
PBA Bateman[Φ]	MRMS	MR	MS	RMR
PBA Gunyidi[Φ]	MRMS	MRMS	MRMS	RMR
PBA Jurien[Φ]	RMR	MS	MR	RMR
Quilinock	VS	MS	S	S
Wonga	RMR	MR	MR	MR

Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible.

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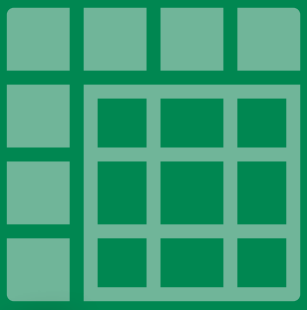

NVT Disease Ratings

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