





Title: NVT Harvest Report – Southern Queensland

Published: Revised May 2024

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#### Acknowledgements:

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

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

PHOTO: Trevor Garnett, GRDC

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

LOW HIGH

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

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

VS	SVS	S	MSS	MS	MRMS	MR	RMR	R
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Disease severity scale from very susceptible (VS) to resistant (R)

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

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

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



# INTRODUCTION

The NVT Harvest Report - Southern Queensland provides information to support growers and advisers with decisions on variety selection for Southern Queensland. The information has been generated from the Grains Research and Development Corporation's (GRDC) National Variety Trials (NVT) database. This publication provides a summary of the 2023 and long-term yield performance of varieties of crop species suitable for production in Southern Queensland together with their quality and disease responses.

The NVT program provides growers and advisers with comparative results on yield performance, quality and disease resistance ratings of commercially available grain varieties that is independent, consistent, timely and robust.

Conducted to a set of predetermined protocols, trials are sown and managed to reflect local best practice such as sowing time, fertiliser application, weed management, pest/disease control and fungicide application. The NVT is not designed to grow varieties to their maximum yield potential.

GRDC recognises that sustaining a project of this nature hinges on the collaboration of growers who willingly provide sites and often lend a hand in trial management on their properties. Equally significant is the partnership with seed companies who supply seed of commercial varieties and experimental lines to the program.

## Interpreting long-term yield results

A factor analytic (FA) mixed model approach is used in the multi-environment trial (MET) analysis conducted by GRDC, supported by the Analytics for the Australian Grains Industry (AAGI).

This approach generates long-term MET values for varieties at an individual trial level.

This format provides more detailed results to better understand a variety's performance over several years at the individual trial/environment level, rather than just a single averaged value.

In the *NVT Harvest Report - Southern Queensland*, 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 Queensland**.

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

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

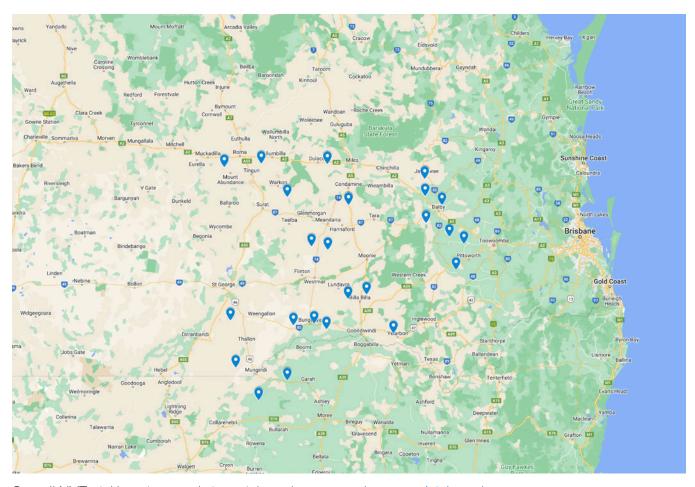
Refer to the latest *Crop Sowing Guide* for further information at <a href="https://nvt.grdc.com.au/resources/crop-sowing-guides">nvt.grdc.com.au/resources/crop-sowing-guides</a>



#### **NVT SITE LOCATIONS – Southern Queensland**

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

SOURCE: NVT Online



See all NVT trial locations and view trial results at <a href="https://nvt.grdc.com.au/trial-results">nvt.grdc.com.au/trial-results</a>.



# **WHEAT**

#### **New wheat varieties**

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

Variety	Breeding company	Grain classification	End point royalty* (\$)	Comments supplied by breeding company <sup>1</sup>
Genie <sup>(b)</sup>	InterGrain	TBC	3.50	Genie <sup>(b)</sup> is a mid-slow maturing wheat and is an excellent alternative to RockStar <sup>(b)</sup> in greater than three-tonne-per-hectare yield environments. In these environments, the variety offers medium-high rainfall growers a yield improvement compared with RockStar <sup>(b)</sup> . Genie <sup>(b)</sup> , with its slightly later maturity than RockStar <sup>(b)</sup> and long coleoptile, enables earlier sowing opportunities to be maximised. Genie <sup>(b)</sup> has an excellent disease resistance package including useful stem rust and stripe rust resistances. It offers good test weight, moderate grain size and has a medium plant height. Preliminary internal data indicates Genie <sup>(b)</sup> has good sprouting tolerance. Genie <sup>(b)</sup> has an AH classification in the western and southern zones and an AH classification is expected for the south-eastern and northern zones in 2024.
Leverage <sup>(b)</sup>	Australian Grain Technologies	APH	4.00	Replacement for EGA Gregory <sup>6</sup> , Coolah <sup>6</sup> and LRPB Flanker <sup>6</sup> . Very high yielding in the early planting window. APH quality classification in the northern zone, with south-eastern zone classification pending. Good resistance to major diseases. Mid-slow maturity, suited to late April/early May planting. Good yellow spot resistance. Good physical grain quality characteristics. Shorter plant type than other EGA Gregory <sup>6</sup> -type varieties.
LRPB Tracer <sup>()</sup>	LongReach Plant Breeders		4.25	Mid-spring maturing variety (similar to LRPB Reliant <sup>(b)</sup> and Suntop <sup>(b)</sup> ) suitable for main season seeding opportunities across NSW and Queensland. Strong performance in sodic soil yield trials combined with a good disease package for northern production systems and excellent RLN ( <i>Pratylenchus thornei</i> ) tolerance. Compact canopy (similar plant height to LRPB Lancer <sup>(b)</sup> ), which can aid in stubble management in zero-till farming systems. APH south east (Southern NSW) northern classification (Northern NSW and Queensland) expected prior to sowing in 2024. Marketed by Pacific Seeds.
SEA Peel	Seed Exchange Australia	FEED	2.50	A quick spring variety with yield potential to varieties in this maturity group. Consistently low screenings. Useful levels of resistance to soil-borne pathogens. Strong rust resistance package. Final milling classification anticipated in 2024.
SEA Stockman	Seed Exchange Australia	FEED	3.00	An awnless hay wheat. Its quick maturity relative to other hay wheats allows SEA Stockman to be sown relatively late and harvested early to allow a summer crop. Excellent standability. Good rust resistance package. Large kernel size.
Sundancer <sup>(†)</sup>	Australian Grain Technologies	АРН	4.00	An ideal replacement for LRPB Lancer <sup>(b)</sup> . Very high yielding, with excellent yield stability. Suits late April, early May planting. Excellent rust resistance. Medium-short plant type with better straw strength than LRPB Lancer <sup>(b)</sup> . Longer coleoptile than LRPB Lancer <sup>(b)</sup> and other early season varieties. APH classification for the northern zone, with southern eastern zone pending.

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

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



## Wheat variety yield performance - Southern Queensland

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: Brookstead main season wheat.								
Year	2019	2020	2021	2022	2023			
Mean yield (t/ha)	2.18	4.37			4.71			
Vixen <sup>(b)</sup>					107			
Jillaroo <sup>(b)</sup>					105			
Calibre <sup>(b)</sup>					108			
Boree <sup>(b)</sup>		99			108			
SUN1081A <sup>(b)</sup>					106			
Borlaug 100 <sup>(b)</sup>	102	110	jal	jal	105			
LRPB Mustang®	111	107	Compromised trial	Compromised trial	101			
Suncentral <sup>(b)</sup>	107	104	omis	omis	105			
Rebel Rat		106	mpr	mpr	105			
Brumby <sup>(b</sup>			읭	읭	106			
Sunmaster <sup>(b)</sup>	107	102			105			
Sunblade CL Plus <sup>(h*</sup>	110	102			103			
Sunprime <sup>(b)</sup>	108	107			99			
LRPB Tracer®					101			
RockStar <sup>(b)</sup>					105			
Sowing date	14 Jun	11 Jun	1 Jun	17 Jun	31 May			
Rainfall J-M (mm)	109	289	304	429	140			
Rainfall A–O (mm)	50	237	252	506	143			

Special thanks to 2023 trial cooperator.

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

Table 3: Dulacca main season wheat.							
Year	2019	2020	2021	2022	2023		
Mean yield (t/ha)	1.54	2.27	3.59		2.44		
SUN1081A <sup>(b)</sup>					129		
Suncentral <sup>(b)</sup>	123	113	115		125		
Sunmaster®	120	111	116		119		
LRPB Mustang(b)	120	109	105		130		
Sunblade CL Plus <sup>(b*</sup>	116	111	114		112		
Jillaroo <sup>(b</sup>			108	<u></u>	109		
Sunprime®	115	110	106	Compromised tria	119		
Borlaug 100 <sup>(b)</sup>	112	118	113	simo	102		
Calibre <sup>(b)</sup>			110	mpro	105		
Sunchaser®	115	104	106		119		
Suntop®	113	103	107		116		
Rebel Rat		113	111		99		
LRPB Hellfire <sup>(b)</sup>	109	103	103		113		
Vixen <sup>(b)</sup>			100		112		
Brumby <sup>(b)</sup>					97		
Sowing date	15 May	18 Jun	11 May	2 Jun	9 May		
Rainfall J-M (mm)	114	454	263	184	82		
Rainfall A-O (mm)	74	120	229	331	98		

Special thanks to 2023 trial cooperator, Alex Nixon and family.

Table 2: Condamine main season wheat.							
Year	2019	2020	2021	2022	2023		
Mean yield (t/ha)		3.03	4.30	5.03	2.49		
Leverage <sup>(b)</sup>					100		
IGW5485					100		
SUN1081A <sup>(b)</sup>				119	97		
Sunmaster <sup>(b)</sup>		102	111	120	96		
Suncentral <sup>(b)</sup>		103	110	118	96		
Sundancer <sup>(b)</sup>					100		
Sunblade CL Plus <sup>(b*</sup>		101	112	111	98		
LRPB Raider <sup>(b)</sup>	Trial failed	100	105	114	102		
Brumby <sup>(b</sup>	lalica				100		
Suntop <sup>(b)</sup>		101	102	113	98		
Rebel Rat		101	105	108	98		
Sunchaser <sup>(b)</sup>		102	99	113	97		
Rebel 65 <sup>th</sup>					101		
Borlaug 100 <sup>(b)</sup>		103	104	106	98		
LRPB Reliant®		105	102	105	101		
Sowing date	11 Jun	26 May	10 May	31 May	26 May		
Rainfall J-M (mm)	105	224	302	251	161		
Rainfall A-O (mm)	32	146	284	510	82		

Special thanks to 2023 trial cooperator, Culara Farming.

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

Table 4: Lundavra main season wheat.						
Year	2019	2020	2021	2022	2023	
Mean yield (t/ha)			3.02	4.60	3.74	
SUN1081A <sup>(b)</sup>				105	110	
Suncentral <sup>(b)</sup>			113	113	109	
Sunmaster <sup>(b)</sup>			111	115	108	
Sunblade CL Plus <sup>(b*</sup>			111	111	107	
Borlaug 100 <sup>(b)</sup>			109	105	109	
Calibre <sup>(b)</sup>		Trial failed	116	99	109	
Rebel Rat	<b>.</b>		105	107	107	
Suntop <sup>(b)</sup>	Trial failed		105	107	103	
Sunchaser <sup>(b)</sup>	lalled		105	106	104	
Brumby <sup>(b)</sup>					104	
LRPB Mustang <sup>(b)</sup>			114	97	107	
Jillaroo <sup>(b)</sup>			120	91	109	
Leverage <sup>(b)</sup>					99	
Sunprime <sup>(b)</sup>			113	96	106	
IGW5485					98	
Sowing date	6 Jun	13 May	14 May	8 May	12 May	
Rainfall J-M (mm)	64	115	209	383	145	
Rainfall A-O (mm)	54	117	175	386	136	

Special thanks to 2023 trial cooperator.



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

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

Year	2019	2020	2021	2022	2023
			2021	2022	
Mean yield (t/ha)	1.34	3.27			3.01
Borlaug 100 <sup>th</sup>	113	122			105
SUN1081A <sup>(b)</sup>					110
Rebel Rat		115			106
Jillaroo <sup>(b</sup>					106
Calibre <sup>(b)</sup>			]		108
Suncentral <sup>(b)</sup>	107	110	ial	<u>la</u>	109
SEA Condamine	110	114	ed tr	ed tr	102
Sunmaster <sup>(b)</sup>	107	106	Simis	Simis	110
Sunblade CL Plus®*	108	104	Compromised tria	Compromised tria	109
Sunprime <sup>(b)</sup>	105	111	의		100
Brumby <sup>(b)</sup>					108
LRPB Mustang <sup>(b)</sup>	102	111			100
Rebel 65 <sup>(b)</sup>					100
Sunchaser <sup>(b)</sup>	103	108			100
IGW5485					106
Sowing date	15 Jun	10 Jun	27 May	21 Jun	11 May
Rainfall J-M (mm)	129	282	277	268	112
Rainfall A–O (mm)	56	144	282	401	74

Special th	hanks to	2023 trial	cooperator.
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<sup>\*</sup> herbicide-tolerant variety. Learn more via the <u>NVT Long Term Yield Reporter</u>

Table 7: Nindigully main season wheat.							
Year	2019	2020	2021	2022	2023		
Mean yield (t/ha)		3.02	3.32		2.50		
Jillaroo <sup>(b)</sup>			113		103		
Borlaug 100 <sup>(b)</sup>		116	106		109		
Calibre <sup>(b)</sup>			112		105		
SUN1081A <sup>(b)</sup>					105		
Vixen <sup>(b)</sup>			112		101		
Rebel Rat		110	104	Trial failed	108		
Sunprime <sup>(b)</sup>		112	106		101		
Suncentral <sup>(b)</sup>	Trial failed	107	106		105		
LRPB Mustang <sup>(b)</sup>	lalica	111	106		100		
Sunblade CL Plus <sup>(b*</sup>		106	107		104		
SEA Condamine		109	101		107		
Sunmaster <sup>(b)</sup>		105	106		105		
SEA Stockman		111	101		99		
Brumby <sup>(b)</sup>					104		
Boree <sup>(h)</sup>		101	108		100		
Sowing date	14 May	25 May	12 May	8 May	18 May		
Rainfall J-M (mm)	23	290	291	196	88		
Rainfall A-O (mm)	57	149	159	507	33		

Table 6: Mungindi main season wheat.							
Year	2019	2020	2021	2022	2023		
Mean yield (t/ha)	1.50	3.11	5.09		2.79		
Borlaug 100 <sup>th</sup>	116	108	100		112		
SUN1081A <sup>(b)</sup>					107		
Rebel Rat		106	100		110		
Suncentral <sup>(b)</sup>	110	106	102		107		
Sunmaster <sup>(b)</sup>	109	105	102		107		
Sunblade CL Plus <sup>(1)*</sup>	107	106	102	<u></u>	105		
SEA Condamine	110	104	100	Compromised tria	109		
Jillaroo <sup>(b)</sup>			100	simo	105		
Calibre <sup>(b)</sup>			100	mpro	106		
Brumby <sup>(b)</sup>				의	104		
Sunprime <sup>(b)</sup>	105	106	99		102		
Rebel 65 <sup>(b)</sup>					107		
Sunchaser®	106	102	100		103		
Suntop <sup>(b)</sup>	104	102	101		102		
IGW5485					103		
Sowing date	14 May	14 May	13 May	16 Jun	19 May		
Rainfall J–M (mm)	80	365	377	206	155		
Rainfall A-O (mm)	42	221	286	510	49		

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

Table 8: Roma main season wheat.						
Year	2019	2020	2021	2022	2023	
Mean yield (t/ha)			3.17			
LRPB Raider <sup>(b)</sup>			115			
LRPB Reliant®			110			
Sunmaster <sup>(b)</sup>			108			
Suncentral <sup>(b)</sup>			107			
Sunblade CL Plus <sup>(b*</sup>			107			
DS Faraday <sup>(b)</sup>		Trial failed	106	Compromised trial	Trial failed	
Catapult <sup>(b)</sup>			105			
Suntop <sup>(b)</sup>	No trial		105			
LRPB Hellfire <sup>(b)</sup>			103			
Coota <sup>(b)</sup>			103	3		
LRPB Flanker <sup>(b)</sup>			103			
Sunchaser <sup>(b)</sup>			102			
Jillaroo <sup>(b</sup>			100			
Calibre <sup>(b)</sup>			100			
Rebel Rat			100			
Sowing date		27 May	12 May	2 Jun	21 May	
Rainfall J–M (mm)		404	280	129	72	
Rainfall A-O (mm)		135	141	404	98	



Special thanks to 2023 trial cooperator, Malanga Pastoral.

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

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

Table 9: Westmar main season wheat.								
Year	2019	2020	2021	2022	2023			
Mean yield (t/ha)		2.01	4.30		2.01			
SUN1081A <sup>(b)</sup>					118			
Jillaroo <sup>(b</sup>			105		109			
Suncentral <sup>(b)</sup>		102	103		116			
Leverage <sup>(b)</sup>					102			
LRPB Mustang <sup>(b)</sup>		97	104		118			
Calibre <sup>(b)</sup>			104	Compromised trial	107			
Sunmaster <sup>(b)</sup>		104	102		113			
Brumby <sup>(b)</sup>	No trial				101			
Catapult <sup>()</sup>			103		97			
Sunblade CL Plus <sup>(b*</sup>		106	101		109			
Sundancer <sup>(b)</sup>					102			
Sunprime <sup>(b)</sup>		101	102		111			
LRPB Reliant <sup>(b)</sup>		116	101		98			
Vixen <sup>(b)</sup>			106		113			
Coota <sup>(b)</sup>		110	101		98			
Sowing date		25 May	14 May	1 Jun	29 May			
Rainfall J-M (mm)		307	209	383	67			
Rainfall A-O (mm)		139	175	386	112			

S	pecial	thanks	to	2023	trial	cooperator.	
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<sup>\*</sup> herbicide-tolerant variety. Learn more via the <u>NVT Long Term Yield Reporter</u>

Table 11: Brooks	Table 11: Brookstead early season wheat.							
Year	2019	2020	2021	2022	2023			
Mean yield (t/ha)	3.15			4.78				
Leverage <sup>(b)</sup>				118				
LRPB Raider®				108				
SUN1081A <sup>(b)</sup>				107				
Sundancer <sup>(b)</sup>				114				
Coota <sup>(b)</sup>	115			103				
Coolah <sup>(b)</sup>	112	ia i		102				
Sunflex <sup>(b)</sup>	105	Compromised trial		106				
LRPB Stealth <sup>(b)</sup>	114	omis	No trial	98	No trial			
Sunmax <sup>(b)</sup>	109	mpr		101				
DS Faraday <sup>(h)</sup>	112	의		96				
EGA Gregory <sup>(b)</sup>	110			95				
LRPB Flanker <sup>(b)</sup>	104			95				
LRPB Lancer <sup>(b)</sup>	110			91				
LRPB Reliant <sup>(b)</sup>	112			89				
RGT Zanzibar	46			124				
Sowing date	10 May	1 Jun		29 Apr				
Rainfall J-M (mm)	109	289		429				
Rainfall A-O (mm)	50	237		506				

No 2023 trial cooperator.

Learn more via the NVT Long Term Yield Reporter

Table 10: Yelarbon main season wheat.								
Year	2019	2020	2021	2022	2023			
Mean yield (t/ha)		3.50	3.94		3.08			
Sunmaster <sup>(b)</sup>		102	118		124			
Sunblade CL Plus <sup>(1)*</sup>		106	113		119			
Suncentral <sup>(b)</sup>		97	116		122			
Rebel Rat		104	112		115			
Brumby <sup>(b)</sup>					110			
IGW5485				Compromised trial	108			
Borlaug 100 <sup>(b)</sup>		104	111		114			
SUN1081A <sup>(b)</sup>	No trial				114			
Calibre <sup>(b)</sup>			107		111			
Leverage <sup>(b)</sup>					107			
LRPB Raider <sup>(b)</sup>		112	104		100			
SEA Condamine		106	105		105			
Rebel 65 <sup>th</sup>					99			
Jillaroo <sup>(b</sup>			100		102			
Suntop <sup>(b)</sup>		96	105		108			
Sowing date		13 May	21 May	18 Jun	13 May			
Rainfall J-M (mm)		236	295	265	197			
Rainfall A-O (mm)		199	304	421	159			

Special thanks to 2023 trial cooperator, Paul & Heath McNulty.

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

Table 12: Condamine early season wheat.								
Year	2019	2020	2021	2022	2023			
Mean yield (t/ha)	1.63	3.13	4.61	5.72	3.23			
Leverage <sup>(b)</sup>				110	109			
Jumbuck <sup>(b)</sup>					109			
SUN1081A <sup>(b)</sup>				103	116			
Sundancer <sup>(b)</sup>				105	110			
LRPB Raider <sup>(b)</sup>		113	110	109	104			
Brumby <sup>(b</sup>					108			
RockStar <sup>(b)</sup>			112		103			
Coolah®	100	109	107	103	105			
Coota <sup>(b)</sup>	103	107	108	103	103			
LRPB Stealth®	105	108	107	99	107			
Sunflex <sup>(b)</sup>	99	103		103	101			
DS Faraday <sup>(b)</sup>	96	111	97	104	105			
EGA Gregory <sup>(†)</sup>	98	110		101	107			
LRPB Flanker <sup>(b)</sup>	99	109	100	98	109			
Rebel 65 <sup>th</sup>				100	111			
Sowing date	30 Apr	16 May	29 Apr	26 Apr	5 May			
Rainfall J-M (mm)	105	224	302	251	161			
Rainfall A-O (mm)	32	146	284	510	82			

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



Table 13: Dulacca early season wheat.								
Year	2019	2020	2021	2022	2023			
Mean yield (t/ha)	1.43		3.56	5.39	2.22			
Sundancer <sup>(b)</sup>				114	133			
Leverage <sup>(b)</sup>				117	126			
SUN1081A <sup>(b)</sup>				109	135			
Jumbuck <sup>(b)</sup>					114			
RockStar <sup>(b)</sup>			113		131			
LRPB Raider <sup>(b)</sup>			117	106	110			
Coota <sup>(b)</sup>	109	<b>-</b>	111	102	116			
LRPB Stealth®	112	Trial failed	109	99	121			
Sunflex <sup>(b)</sup>	106	lulicu		104	109			
Coolah®	103		111	102	112			
LRPB Lancer®	118		99	93	119			
Rebel 65 <sup>(b)</sup>				106	93			
LRPB Flanker®	99		103	98	107			
Brumby <sup>(b)</sup>					128			
EGA Gregory <sup>(b)</sup>	87			96	96			
Sowing date	29 Apr	16 May	29 Apr	28 Apr	26 Apr			
Rainfall J-M (mm)	114	454	263	184	82			
Rainfall A-O (mm)	74	120	229	331	98			

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

Table 15: Macalister early season wheat.							
Year	2019	2020	2021	2022	2023		
Mean yield (t/ha)	2.62	3.61			4.31		
SUN1081A <sup>(b)</sup>					117		
Jumbuck <sup>(b)</sup>					115		
Leverage <sup>(b)</sup>					114		
Sundancer <sup>(b)</sup>					113		
Brumby <sup>(b)</sup>					109		
LRPB Raider <sup>(b)</sup>		110	<u>ia</u>		109		
LRPB Flanker®	102	112	Compromised trial		106		
Rebel 65 <sup>(b)</sup>			simis	No trial	106		
Coolah®	104	108	mpro		107		
LRPB Stealth®	101	110	3		107		
EGA Gregory <sup>(b)</sup>	103	110			105		
DS Faraday <sup>(b</sup>	105	109			104		
Coota®	103	106			106		
RockStar <sup>(b)</sup>			]		106		
Sunflex <sup>(b)</sup>	102	102			103		
Sowing date	7 May	28 May	10 May		4 May		
Rainfall J–M (mm)	129	282	277		112		
Rainfall A–O (mm)	56	144	282		74		

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

Table 14: Lundavra early season wheat.								
Year	2019	2020	2021	2022	2023			
Mean yield (t/ha)			3.34	4.42	4.03			
Leverage <sup>(b)</sup>				110	110			
Jumbuck <sup>(b)</sup>					107			
SUN1081A <sup>(b)</sup>				105	115			
Sundancer®				107	113			
LRPB Raider <sup>(b)</sup>			114	107	104			
RockStar <sup>(b)</sup>		108 108 Trial failed	108		109			
Coota <sup>(b)</sup>	T.,		108	103	105			
Coolah <sup>(b)</sup>	Trial failed		108	103	105			
Brumby <sup>(b)</sup>	Idiled				109			
LRPB Stealth <sup>(b)</sup>			105	100	108			
Sunflex <sup>(b)</sup>				103	103			
LRPB Flanker <sup>(b)</sup>			102	99	105			
Rebel 65 <sup>(b)</sup>				100	103			
EGA Gregory <sup>(b)</sup>				100	101			
DS Faraday <sup>(b)</sup>			103	101	99			
Sowing date	24 Apr	28 Apr	26 Apr	30 Apr	25 Apr			
Rainfall J–M (mm)	64	115	209	383	145			
Rainfall A–O (mm)	54	117	175	386	136			

Special thanks to 2023 trial cooperator.

Learn more via the NVT Long Term Yield Reporter

Table 16: Mungindi early season wheat.									
Year	2019	2020	2021	2022	2023				
Mean yield (t/ha)		2.83	4.34		3.14				
Leverage <sup>(b)</sup>					111				
Jumbuck <sup>(b)</sup>					106				
Sundancer®					111				
SUN1081A <sup>(b)</sup>					105				
LRPB Raider <sup>(b)</sup>		125	102		103				
RockStar <sup>(b)</sup>			102	Trial failed	108				
Coota <sup>(b)</sup>	<b>.</b>	116	101		104				
Sunflex <sup>(b)</sup>	Trial failed	110			105				
Brumby <sup>(b)</sup>	lalica				97				
Coolah <sup>(b)</sup>		116	99		102				
LRPB Stealth®		114	97		101				
Sunmax <sup>(b)</sup>		98	107		94				
DS Faraday <sup>(b)</sup>		112	96		92				
Genie <sup>(b)</sup>					94				
EGA Gregory <sup>(b)</sup>		110			93				
Sowing date	24 Apr	29 Apr	27 Apr	7 May	28 Apr				
Rainfall J-M (mm)	80	365	377	206	155				
Rainfall A-O (mm)	42	221	286	510	49				

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



Table 17: Nindigully early season wheat.								
Year	2019	2020	2021	2022	2023			
Mean yield (t/ha)		3.22	3.83		2.89			
SUN1081A <sup>(b)</sup>					111			
Leverage <sup>(b)</sup>					110			
Jumbuck <sup>(b)</sup>					108			
Sundancer®					111			
Brumby <sup>(b)</sup>					103			
LRPB Raider <sup>(b)</sup>		124	110	Trial failed	104			
RockStar <sup>(b)</sup>			112		106			
LRPB Stealth®	Trial failed	115	108		105			
Coolah®	lalica	116	107		104			
Coota <sup>(b)</sup>		112	108		104			
LRPB Flanker®		117	102		102			
Sunflex <sup>(b)</sup>		107			103			
EGA Gregory <sup>(b)</sup>		117			99			
DS Faraday <sup>(b</sup>		119	99		98			
Rebel 65 <sup>(b)</sup>					102			
Sowing date	14 May	30 Apr	28 Apr	27 Apr	28 Apr			
Rainfall J-M (mm)	23	290	291	196	88			
Rainfall A-O (mm)	57	149	159	507	33			

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

Table 19: Westm	Table 19: Westmar early season wheat.								
Year	2019	2020	2021	2022	2023				
Mean yield (t/ha)		2.17	4.56	3.54	2.10				
Jumbuck <sup>(b)</sup>					113				
Leverage <sup>(b)</sup>				110	121				
SUN1081A <sup>(b)</sup>				103	130				
LRPB Raider <sup>(b)</sup>		114	105	113	111				
Sundancer <sup>(b)</sup>				100	125				
Brumby <sup>(b)</sup>					128				
DS Faraday <sup>(b)</sup>		114	100	113	97				
Coolah®	Trial failed	107	103	104	112				
Coota <sup>(b)</sup>	lanea	104	103	101	114				
EGA Gregory <sup>(b)</sup>		110		107	101				
LRPB Stealth®		102	103	96	118				
RockStar <sup>(b)</sup>			103		125				
LRPB Flanker <sup>(b)</sup>		105	102	101	108				
Sunflex <sup>(b)</sup>		102		102	107				
Rebel 65 <sup>th</sup>				106	96				
Sowing date	30 Apr	30 Apr	28 Apr	26 Apr	27 Apr				
Rainfall J–M (mm)	84	307	209	383	67				
Rainfall A–O (mm)	36	139	175	386	112				

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

Table 18: Roma early season wheat.								
Year	2019	2020	2021	2022	2023			
Mean yield (t/ha)			2.95	4.93				
Leverage <sup>(b)</sup>				112				
LRPB Raider <sup>(b)</sup>			125	110				
SUN1081A <sup>(b)</sup>				107				
Sundancer <sup>(b)</sup>				105				
DS Faraday <sup>(b)</sup>			109	108				
Sunmax <sup>(b)</sup>		Trial failed	103	110	No trial			
Coolah®	<b>.</b>		113	104				
Rebel 65 <sup>th</sup>	Trial failed			106				
Coota <sup>(b)</sup>	lanca		112	102				
EGA Gregory <sup>(†)</sup>				105				
LRPB Nighthawk <sup>(b)</sup>			100	108				
Sunflex <sup>(b)</sup>				102				
LRPB Flanker <sup>(b)</sup>			105	102				
LRPB Stealth®			107	99				
LRPB Reliant <sup>₼</sup>			102	101				
Sowing date	1 May	15 May	30 Apr	28 Apr				
Rainfall J-M (mm)	63	404	280	129				
Rainfall A-O (mm)	106	135	141	404				

No 2023 trial cooperator. Learn more via the <u>NVT Long Term Yield Reporter</u>

Table 20: Yelarb	on early	season	wheat.		
Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		3.61	4.35	5.03	3.00
Leverage <sup>(b)</sup>				114	122
Jumbuck <sup>(b)</sup>					117
Sundancer <sup>(b)</sup>				113	122
SUN1081A <sup>(b)</sup>				105	125
LRPB Raider <sup>(b)</sup>		119	118	103	112
Coota <sup>(b)</sup>		104	112	102	112
RockStar <sup>(b)</sup>			115		118
Sunflex <sup>(b)</sup>	No trial	105		104	107
Coolah®		107	109	100	110
LRPB Stealth®		99	104	99	112
LRPB Nighthawk <sup>(b)</sup>		118	98	109	78
Rebel 65 <sup>th</sup>				100	98
Sunmax <sup>(b)</sup>		114	101	95	85
DS Faraday <sup>(b)</sup>		112	95	92	99
LRPB Flanker <sup>(b)</sup>		103	94	95	105
Sowing date		29 Apr	26 Apr	30 Apr	26 Apr
Rainfall J-M (mm)		236	295	265	197
Rainfall A-O (mm)		199	304	421	159

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



Table 21: Lundavra durum wheat.											
Year	2019	2020	2021	2022	2023						
Mean yield (t/ha)			2.62	4.37	3.34						
Patron <sup>(b)</sup>			116		117						
Bitalli <sup>(b)</sup>			107	109	106						
DBA Mataroi <sup>(b)</sup>		Trial failed	108	108	106						
Westcourt <sup>(b)</sup>			107	109	104						
DBA-Aurora®	Trial		95	105	95						
DBA Vittaroi <sup>®</sup>	failed		98	97	94						
DBA Lillaroi <sup>(b</sup>			99	89	101						
Caparoi <sup>(b)</sup>			95	95	94						
DBA Bindaroi®			94	97	92						
DBA-Artemis®			89	100	90						
Sowing date	6 Jun	13 May	14 May	8 May	12 May						
Rainfall J-M (mm)	64	115	209	383	145						
Rainfall A-O (mm)	54	117	175	386	136						

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

Table 22: Macal	ister dur	um whe	at.		
Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	0.78	4.02		5.09	2.62
Patron <sup>(b)</sup>					126
DBA Mataroi®	104	103		105	108
Bitalli <sup>(b)</sup>	107			103	110
Westcourt <sup>(b)</sup>	102	102	Compromised trial	104	107
Jandaroi <sup>(b</sup>	96	108	nisec	98	90
DBA Lillaroi®	99	104	pron	98	95
DBA-Aurora®	101	94	Com	97	101
DBA Vittaroi <sup>®</sup>	86	97		101	88
Caparoi <sup>(b)</sup>	92	97		98	91
DBA Bindaroi®	91	95		98	90
Sowing date	15 Jun	10 Jun	27 May	21 Jun	11 May
Rainfall J-M (mm)	129	282	277	268	112
Rainfall A-O (mm)	56	144	282	401	74

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



## Wheat variety quality - Southern Queensland

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

The following figures show the grain quality trends as histograms from 2022 and 2023 NVT averaged for trials in the Southern Queensland 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 two NVT sites in Southern Queensland in 2022.

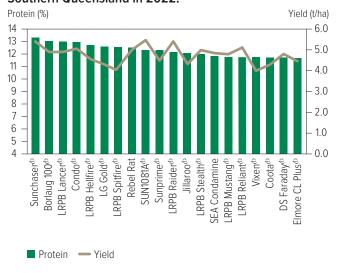


Figure 2: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from nine NVT sites in Southern Queensland in 2023.

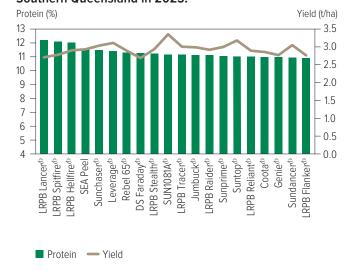


Figure 3: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from seven NVT sites in Southern Queensland in 2022.

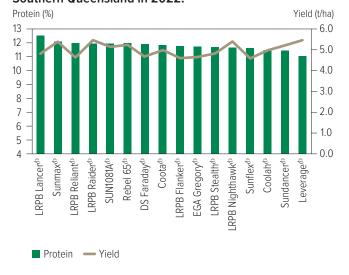


Figure 4: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from eight NVT sites in Southern Queensland in 2023.

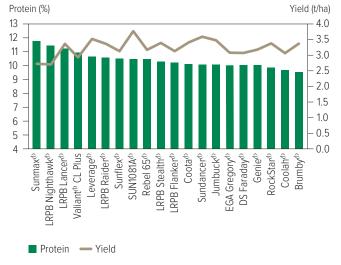




Figure 5: Protein (%) and yield (t/ha) comparisons for durum wheat varieties from two NVT sites in Southern Queensland in 2022.

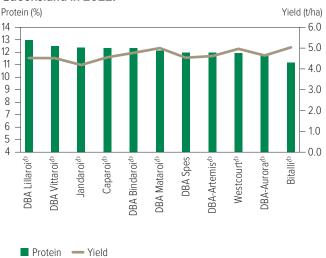
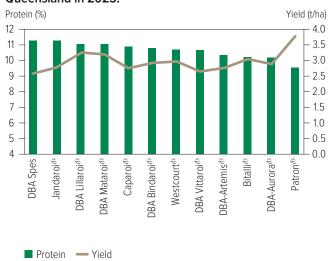


Figure 6: Protein (%) and yield (t/ha) comparisons for durum wheat varieties from two NVT sites in Southern Queensland in 2023.



#### Test weight comparisons

Figure 7: Test weight (kg/hL) comparisons for main season wheat varieties from two NVT sites in Southern Queensland in 2022.

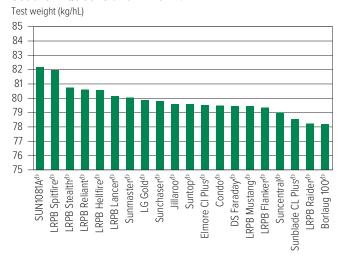


Figure 8: Test weight (kg/hL) comparisons for main season wheat varieties from nine NVT sites in Southern Queensland in 2023.

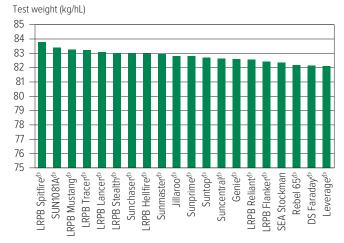


Figure 9: Test weight (kg/hL) comparisons for early season wheat varieties from seven NVT sites in Southern Queensland in 2022.

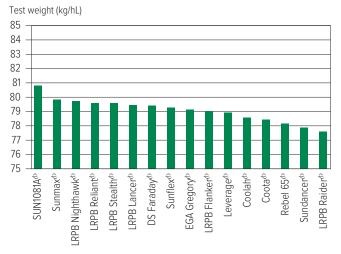


Figure 10: Test weight (kg/hL) comparisons for early season wheat varieties from eight NVT sites in Southern Queensland in 2023.

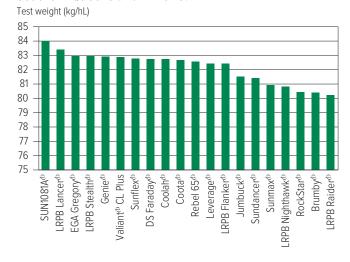




Figure 11: Test weight (kg/hL) comparisons for durum wheat varieties from two NVT sites in Southern Queensland in 2022.

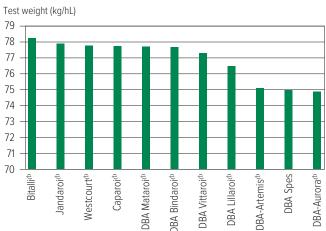
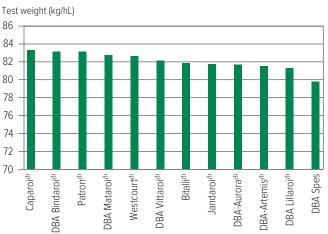


Figure 12: Test weight (kg/hL) comparisons for durum wheat varieties from two NVT sites in Southern Queensland in 2023.



#### Screenings comparisons

Figure 13: Screenings (<2.0mm) comparisons for main season wheat varieties from two NVT sites in Southern Queensland in 2022.

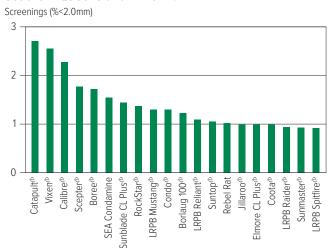


Figure 14: Screenings (<2.0mm) comparisons for main season wheat varieties from nine NVT sites in Southern Queensland in 2023.

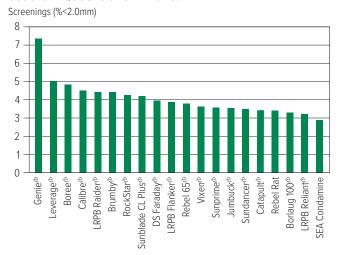


Figure 15: Screenings (<2.0mm) comparisons for early season wheat varieties from seven NVT sites in Southern Queensland in 2022.

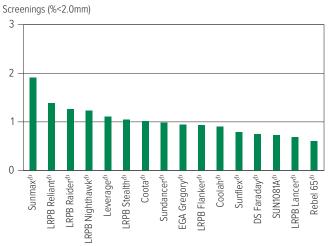
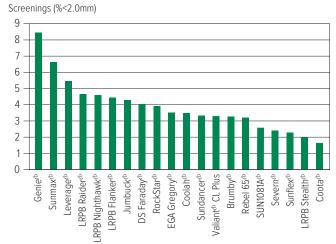


Figure 16: Screenings (<2.0mm) comparisons for early season wheat varieties from eight NVT sites in Southern Queensland in 2023.





CHICKPEA

Figure 17: Screenings (<2.0mm) comparisons for durum wheat varieties from two NVT sites in Southern Queensland in 2022.



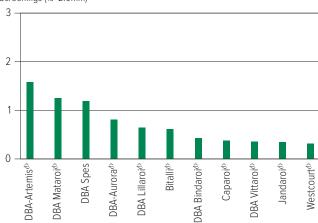
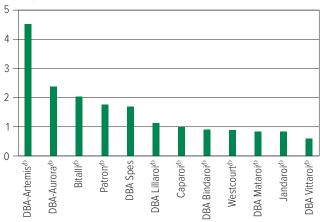


Figure 18: Screenings (<2.0mm) comparisons for durum wheat varieties from two NVT sites in Southern Queensland in 2023.

Screenings (%<2.0mm)





## Wheat variety disease ratings - Queensland

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

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

Table 23: Wheat d	isease guid	e for Que	ensland.								
Variety	Leafrust	Stem rust	Stripe rust (east coast resistance)	Black point	Crown rot	Powdery mildew	RLN resistance (Pratylenchus neglectus)	RLN tolerance (Pratylenchus neglectus)	RLN resistance (Pratylenchus thornel)	RLN tolerance (Pratylenchus thornel)	Yellow leaf spot
Boree <sup>(b)</sup>	S	MR	SVS	S	S	VS	S		MSS	MII	MRMS
Borlaug 100 <sup>(b)</sup>	MR	MR	SVS	MSS	MSS	,,,	S	T	MS	TMT	MRMS
Brumby <sup>(b)</sup>	SVS	MR	MS	MSS	S	MR/S	MRMS	TMT	MS (P)	MI	MRMS
Calibre <sup>(b)</sup>	S	MR	S	MSS	S	MSS	S	MT	MSS	MII	MRMS
Catapult <sup>(b</sup>	S	MR	S	S	MSS	S	S	MII	MS	MT	MRMS
Condo <sup>(h)</sup>	S	MR	MRMS/MS	MS	S	MRMS	S	MT	MS	TMT	MS
Coolah <sup>(b)</sup>	RMR	MR	MSS	S	MSS	S	S	MT	MS	MT	MSS
Coota <sup>(b)</sup>	MR	RMR	S	MS	MSS	S	MR	MI	MS	MTMI	MSS
Cutlass <sup>(b)</sup>	RMR	RIVIR	MSS	MS	S	MSS	MSS	MT	MSS		MSS
Denison <sup>(b)</sup>	RIVIR S	MS	MSS S	MS	MSS	MSS S	MSS S	MII	MISS S	MI MI	MRMS
DS Faraday <sup>(b)</sup>	RMR	RMR	MRMS	MSS	MSS	R (P)	S	MTMI	MSS	MT	MSS
DS Tull <sup>(b)</sup>	MSS	MR	MS	MRMS	S	1400	MSS	MT	MSS	MTMI .	S
EG Jet <sup>(1)</sup>	S	S	MRMS	MS	S	MSS	S	MI	S	14714	MRMS
EG Titanium	MS	MS	MR	MSS	MSS	S	MSS	MTMI	MSS	MTMI	MSS
EGA Gregory <sup>(b)</sup>	MR	MR	MS	MSS	S	MR	S	MT	MSS	MT	S
Genie <sup>(b)</sup>	S (P)	MS (P)	MRMS (P)			SVS (P)					MRMS (P)
Hyperno <sup>(b)</sup>	RMR	RMR	MR	MS	SVS	MR	MS	MTMI	RMR	TMT	MRMS
Jillaroo <sup>(h</sup>	S	MS	MSS	MS	S	S	S	I	MS (P)	MII	MS
Jumbuck <sup>(b)</sup>	RMR (P)	MRMS (P)	MR (P)			MS (P)					MS (P)
Leverage <sup>(b)</sup>	RMR#	MR	MRMS	MSS (P)	S	S	S		MS	MT	MRMS
LRPB Avenger <sup>(b)</sup>	S	MS	S	MRMS	S	SVS	MSS	MI	MRMS	MI	MS
LRPB Flanker <sup>(h)</sup>	RMR	MR	MRMS	MS	MSS	MRMS	S	MT	MSS	MT	MSS
LRPB Hellfire <sup>(b)</sup>	MSS	MR	MR	S	MSS	SVS	MSS	MTMI	MSS	MI	MSS
LRPB Impala <sup>(b)</sup>	SVS	MR	MRMS	MS	MSS	R	SVS	MTMI	S	MII	MSS
LRPB Lancer <sup>(b)</sup>	RMR	R	RMR	MRMS	MSS	R	S	MTMI	MS	TMT	MS
LRPB Mustang®	MSS	MRMS	MR	MS	MSS	MSS	S	MI	MSS	MTMI	MSS
LRPB Nighthawk <sup>(b)</sup>	MSS	RMR	MR	MS	MSS	SVS	MSS	IVI	MS	MI	MS
LRPB Oryx <sup>(f)</sup>	RMR#	MR	MS	MS	MSS	MR	MSS	MII	MSS	IVI	MSS
LRPB Raider®	RMR	RMR	MR	MSS	S	MSS	MSS	MTMI	MS	TMT	MSS
LRPB Reliant <sup>(b)</sup>	RMR	R	MR	MS	MS	RMR	SVS	MTMI	MSS	TMT	S
LRPB Spitfire <sup>(b)</sup>	S	MR	MRMS	MSS	MS	MRMS	MSS	MI	MS	MTMI	S
LRPB Stealth®	RMR#	R	RMR	MRMS	MSS	MRMS	MSS	MTMI	S	MTMI	MS
LRPB Tracer®	MR# (P)	MS (P)	MR (P)			MSS (P)			-		S (P)
Rebel 65 <sup>(b)</sup>	MRMS	MSS	MS	MSS	S		S	TMT	MRMS	TMT	MSS
Rebel Rat	MRMS#	MRMS	MS	MSS	MSS	VS	S	Т	MSS	MT	MRMS
RGT Zanzibar	SVS	VS	MR	MRMS	S	RMR	S	IVI	MS (P)	MI	MS
RockStar <sup>(b)</sup>	S	MRMS	S	MSS	S	SVS	MRMS	101	MS (F)	MI	MRMS
Scepter <sup>(b)</sup>	MSS	MRMS	MSS	MS	MSS	SVS	S	MTMI	MSS	MT	MRMS
SEA Condamine	RMR	MRMS	MSS	MRMS	MSS	343	S	MT	MS	MT	MSS
SEA Condamine SEA Peel				MSS (P)		MCC	MSS	TVIT			MS
	RMR	MR#	MR	. ,	MSS	MSS			MRMS	MI	
SEA Stockman	MR	MS	MRMS	MSS (P)	S	SVS	MSS		S	MTMI	MSS
Severn <sup>(b)</sup>	MRMS	MS	RMR	MR	S	R	S		MRMS	THAT	MRMS
SUN1081A <sup>(b)</sup>	MR#	MRMS	MR		MS	S	S		MRMS	TMT	MRMS
Sunblade CL Plus <sup>(b)</sup>	MSS	MS	MRMS	MRMS	S	S	MSS	MI	MRMS	MT	MSS
Suncentral <sup>(b)</sup>	RMR	MRMS		MRMS	MSS	SVS	MRMS	MI	MRMS	MT	MSS
Sunchaser <sup>(b)</sup>	R	MR		MRMS	MSS	VS	MSS	MTMI	MSS	MT	MS



Table 23: Wheat dise	ase guide	e for Que	ensland (	continue	d).						
Variety	Leaf rust	Stem rust	Stripe rust (east coast resistance)	Black point	Crown rot	Powdery mildew	RLN resistance (Pratylenchus neglectus)	RLN tolerance (Pratylenchus neglectus)	RLN resistance (Pratylenchus thornei)	RLN tolerance (Pratylenchus thornei)	Yellow leaf spot
Sundancer <sup>(1)</sup>	RMR	MR	MR	MSS (P)	MSS	S	MSS		MS	MT	MS
Sunflex <sup>(b)</sup>	RMR#	MR	MRMS	MSS	MSS	S	S	MI	MSS	MI	MS
Sunmaster <sup>(b)</sup>	RMR	MS	MRMS	MR	MSS	MSS	MRMS	MTMI	MS	TMT	MSS
Sunmax <sup>(b)</sup>	MS	MRMS	RMR	MRMS	MSS	S	S	MT	MS	MI	MSS
Sunprime <sup>(b)</sup>	MR#	MS	MS	MSS	MSS		S	MTMI	S	MTMI	MSS
Suntop <sup>(b)</sup>	MR	MRMS	MRMS	MSS	MSS	S	S	MT	MRMS	TMT	MSS
Valiant <sup>()</sup> CL Plus	S	MR	S	MS (P)	MSS	VS	S	MII	S (P)	IVI	MRMS
Vixen <sup>(b)</sup>	SVS	MRMS	SVS	MSS	S	SVS	MRMS	- 1	MS	1	MRMS
Willaura <sup>(b)</sup>	MRMS	MR	S	MRMS	S	SVS	MSS	MII	MRMS	MTMI	MS
DURUM											
Caparoi <sup>(b)</sup>	RMR	MR	MS	MSS	VS	S	MS	MI	MR	MT	MR
DBA Bindaroi <sup>(b)</sup>	MR	MR	MS	MRMS	SVS	MSS	MRMS	MI	MR	MTMI	MS
DBA Lillaroi <sup>(b)</sup>	RMR	RMR	MS	MS	SVS	MSS	MRMS	MI	RMR	MT	MRMS
DBA Mataroi <sup>(b</sup>	MR	MRMS	MS	MS	SVS	S	MS	MT	RMR	MI	MRMS
DBA Spes	RMR	R	MS	MS	VS	MSS	MRMS	MTMI	RMR	MI	MRMS
DBA Vittaroi <sup>(b)</sup>	RMR	MR	MS	MSS	SVS	MS	MS	- 1	MR	MI	MRMS
DBA-Artemis <sup>(b)</sup>	RMR	MR	MRMS	MS	SVS	S	MS	MII	MR	MTMI	MRMS
DBA-Aurora <sup>(b)</sup>	RMR	RMR	MRMS	MS	SVS	MSS	MRMS	MI	RMR	MT	MRMS
Jandaroi <sup>(b</sup>	MR	MRMS	MRMS	MS	VS	MSS	MS	MII	MRMS	MTMI	MRMS
Patron <sup>(b)</sup>	MR#	RMR	MRMS	MSS	SVS	MSS	MRMS	T	MR	MT	MRMS
Westcourt <sup>(b)</sup>	RMR	RMR	MR	MSS	VS	S	MS	MI	MR	MT	MRMS

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



R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible,
T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant,
(P) = provisional rating, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes, () show outlier.

# **BARLEY**

### **New barley varieties**

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

Variety	Breeding company	Grain classification	End point royalty* (\$)	Comments supplied by breeding company <sup>1</sup>
Neo <sup>⊕</sup> CL	InterGrain	Under malt evaluation	4.25	Neo <sup>®</sup> CL is a mid-maturing, imidazolinone-tolerant spring barley, ideally suited to mediumhigh rainfall environments. Neo <sup>®</sup> CL provides an outstanding disease resistance profile with excellent resistance to cereal cyst nematode, powdery mildew and the spot form of net blotch, and useful resistance to the net form of net blotch and leaf scald. Neo <sup>®</sup> CL has a semi-prostrate early growth habit, medium plant height, good tolerance to lodging, good grain retention and tolerance to head loss, and very good levels of grain plumpness. Neo <sup>®</sup> CL has been accepted into Grains Australia's malting accreditation program with earliest potential final accreditation in March 2025.
Spinnaker <sup>(b)</sup>	Secobra Recherches		TBC	Released under code name SCA21-Y003.

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

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



# Barley variety yield performance - Southern Queensland

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: Brooksto	ead mai	n seasor	ı barley.		
Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.44	4.58			4.12
Yeti <sup>(b)</sup>	124	118			101
Maximus <sup>(b)</sup> CL*	115	114			104
Laperouse <sup>(b)</sup>	113	113			105
Combat <sup>(b)</sup>					100
Fathom <sup>(b)</sup>	132	103			94
Minotaur <sup>(b)</sup>				<u>ia</u>	102
Titan AX <sup>(b*</sup>			<b>.</b>	ed ti	99
Beast <sup>(b)</sup>	120	106	Trial failed	Compromised tria	92
Neo® CL*			ranca		105
Spinnaker <sup>(b)</sup>					107
Spartacus CL <sup>(b*</sup>	116	104			93
Leabrook <sup>(b</sup>	107	104			97
Compass <sup>(b)</sup>	117	104			91
Commodus <sup>(1)</sup> CL*		101			93
Cyclops <sup>(h)</sup>		100			93
Sowing date	14 Jun	11 Jun	1 Jun	17 Jun	31 May
Rainfall J-M (mm)	109	289	304	429	140
Rainfall A-O (mm)	50	237	252	506	143

Special thanks to 2023 trial cooperator.

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

Table 3: Macalister main season barley.											
Year	2019	2020	2021	2022	2023						
Mean yield (t/ha)	1.50	3.82			3.05						
Laperouse <sup>(b)</sup>	102	104			106						
Maximus <sup>(b)</sup> CL*	100	108			101						
Titan AX <sup>(1)*</sup>					107						
Yeti <sup>(b)</sup>	108	106			98						
Commander <sup>(b)</sup>	100	99			106						
Commodus <sup>(b)</sup> CL*		104		Compromised trial	95						
Compass <sup>(b)</sup>	109	107			90						
Leabrook <sup>(b)</sup>	105	104	Trial failed		94						
Fathom <sup>(b)</sup>	114	94	lalled		102						
Combat <sup>(b)</sup>					101						
Alestar <sup>(b)</sup>	90	106			98						
Neo® CL*					104						
Beast <sup>(b)</sup>	110	106			87						
Bottler <sup>(b)</sup>	94	103			97						
Rosalind <sup>(b)</sup>	96	110			87						
Sowing date	15 Jun	28 May	27 May	21 Jun	11 May						
Rainfall J-M (mm)	129	282	277	268	112						
Rainfall A-O (mm)	56	144	282	401	74						

Special thanks to 2023 trial cooperator.

Table 2: Condar	nine mai	n seasoi	n barley.		
Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		3.33	3.27	5.55	2.60
Spinnaker <sup>(b</sup>				122	101
Neo® CL*					102
RGT Planet <sup>(b)</sup>		100	104	114	100
Zena (b CL*			102	115	98
Yeti <sup>(b)</sup>		109	110	95	111
Combat <sup>(b)</sup>			108	99	106
Rosalind <sup>(b)</sup>		102	101	105	104
Laperouse <sup>(b)</sup>	Trial failed	100	108	100	105
Leabrook <sup>(b)</sup>	Idiled	112	101	93	107
Maximus <sup>(1)</sup> CL*		93	107	102	103
Bottler <sup>(b)</sup>		98	99	105	99
Titan AX <sup>(l)*</sup>				87	108
Alestar <sup>(h)</sup>		97	95	105	97
Beast <sup>(b)</sup>		114	98	86	109
Minotaur <sup>(b)</sup>			105	105	94
Sowing date	11 Jun	26 May	10 May	31 May	26 May
Rainfall J-M (mm)	105	224	302	251	161
Rainfall A-O (mm)	32	146	284	510	82

Special thanks to 2023 trial cooperator, Culara Farming.

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

Table 4: Mungindi main season barley.											
Year	2019	2020	2021	2022	2023						
Mean yield (t/ha)	2.27	3.62	4.43	2.54	3.14						
Yeti <sup>(b)</sup>	116	110	107	103	111						
Combat <sup>(b)</sup>			106	95	112						
Spinnaker <sup>(b)</sup>				121	99						
Minotaur <sup>(b)</sup>			109	87	110						
Neo <sup>(h)</sup> CL*					106						
Laperouse <sup>(b)</sup>	104	100	106	106	107						
Maximus <sup>(b)</sup> CL*	105	95	108	110	103						
Titan AX <sup>()</sup> *				91	111						
Beast <sup>(b)</sup>	115	109	99	91	102						
RGT Planet <sup>(b)</sup>	101	101	103	112	96						
Leabrook <sup>(b)</sup>	108	105	99	99	102						
Cyclops <sup>(b)</sup>		104	104	95	94						
Fathom <sup>(b)</sup>	109	111	99	76	109						
Rosalind <sup>(b)</sup>	106	96	102	112	93						
Zena <sup>(b)</sup> CL*			102	116	92						
Sowing date	14 May	14 May	13 May	17 Jun	19 May						
Rainfall J-M (mm)	80	365	377	206	155						
Rainfall A-O (mm)	42	221	286	510	49						

Special thanks to 2023 trial cooperator.



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

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

## Barley variety quality - Southern Queensland

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

The following figures show the grain quality trends as histograms from 2022 and 2023 NVT averaged for trials in the Southern Queensland 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 two NVT sites in Southern Queensland in 2022.

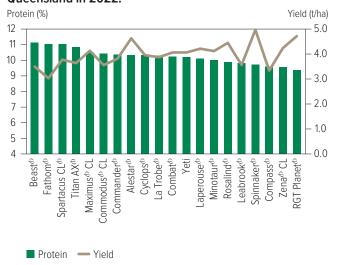
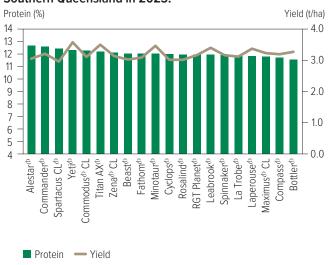


Figure 2: Protein (%) and yield (t/ha) comparisons for main season barley varieties from four NVT sites in Southern Queensland in 2023.



#### **Test weight comparisons**

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

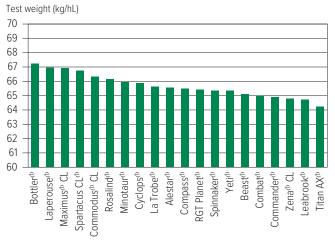
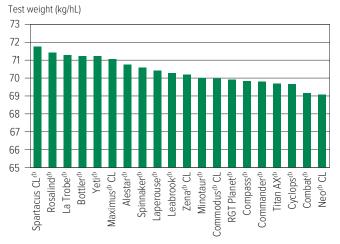


Figure 4: Test weight (kg/hL) comparisons for main season barley varieties from four NVT sites in Southern Queensland in 2023.





#### **Screenings comparisons**

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

Screenings (%<2.2mm)

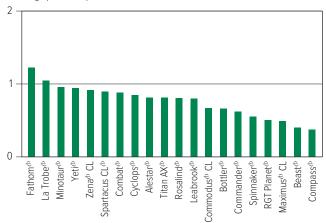
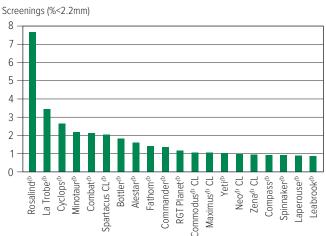


Figure 6: Screenings (<2.2mm) comparisons for main season barley varieties from four NVT sites in Southern Queensland in 2023.



#### **Retention comparisons**

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

Retention (%>2.5mm)
100

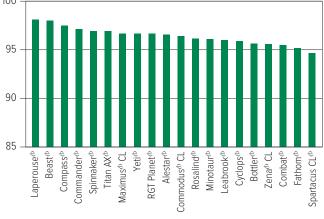
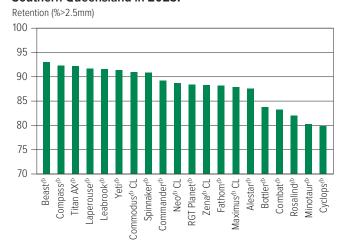


Figure 8: Retention (>2.5mm) comparisons for main season barley varieties from four NVT sites in Southern Queensland in 2023.





### Barley variety disease ratings - Queensland

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

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

Table 5: Barle	y disease	guide for	Queensla	nd.							
Variety	Leafrust	Black point	Crown rot	Net form net blotch	Spot form net blotch	Powdery mildew	RLN resistance (Pratylenchus neglectus)	RLN tolerance (Pratylenchus neglectus)	RLN resistance (Pratylenchus thornei)	RLN tolerance (Pratylenchus thornei)	Ramularia
Alestar <sup>(1)</sup>	MS	MRMS	S	MSS	S	MR	MR	1	MR	MTMI	SVS
Banks <sup>(b</sup>	S	MS	MSS	MRMS	MSS	MS	MS	MII	MR	TMT	VS
Bass <sup>(b)</sup>	SVS	MRMS	MSS	MSS	MSS	S	MS	1	MRMS	MTMI	VS
Beast <sup>(b)</sup>	S	MSS	S	MRMS	MS	S	MRMS	MI	MRMS	TMT	SVS
Bottler <sup>(b)</sup>	MS	MRMS	SVS	MS	MSS	RMR	MS	MT	RMR	MI	SVS
Buff <sup>(b)</sup>	S-SVS	MS	S	MS	MSS	S	MRMS	MT	MS	MI	SVS
Combat <sup>(b)</sup>	MS	MSS	S	MRMS	RMR	MS	MRMS		MS	TMT	SVS
Commander <sup>(b)</sup>	S-SVS	MSS	S	MS-S	MSS	MSS	MRMS	MTMI	MRMS	MT	SVS
Commodus <sup>(1)</sup> CL	S	MS	S	MRMS	MRMS	MSS	MRMS	TMT	MRMS	MTMI	SVS
Compass <sup>(b)</sup>	SVS	MSS	MSS	MS	MS	S	MRMS	TMT	MR	TMT	SVS
Cyclops <sup>(b)</sup>	S	MSS	MSS	MRMS	MS	SVS	MRMS	MI	MRMS	MI	SVS
Fairview <sup>(b</sup>	S	MS	MSS	SVS	S	R	MR		MR	MI	SVS
Fandaga <sup>(b)</sup>	MSS	MRMS	MSS	MS	MSS	R	MR		MR	TMT	VS
Fathom <sup>(b</sup>	MS	MSS	SVS	MS	MRMS	MRMS	MRMS	T	MR	MT	SVS
Flinders <sup>(b)</sup>	MSS	MRMS	MSS	MRMS	MSS	RMR	MRMS		MR	MTMI	SVS
Keel	S	MSS	S	S	MR	S	MS		MRMS	MII	SVS
Kiwi	MS	MS	MSS	MRMS	MSS	RMR	MRMS	MI	RMR	MTMI	VS
La Trobe <sup>(b)</sup>	MS-S	MSS	S	MS	S	MSS	MRMS	MT	MRMS	MT	SVS
Laperouse <sup>(b)</sup>	SVS	MSS	S	MRMS	MR	MSS	MRMS	MI	MR	MTMI	VS
Leabrook <sup>(b)</sup>	SVS	MS	S	MS	MRMS	S	MRMS	MT	RMR	TMT	VS
Litmus <sup>(b)</sup>	S	MS	S	MS	S	MS	MS	MTMI	MRMS	IVI	VS
Maximus <sup>(b)</sup> CL	S	MSS	S	MRMS	MRMS	S	MRMS	MT	MRMS	MI	VS
Minotaur <sup>(b</sup>	SVS	MRMS	MSS	MRMS	S	S	MRMS	MI	MRMS	TMT	SVS
Neo <sup>⊕</sup> CL	S (P)	MRMS (P)		MRMS-S (P)	RMR (P)	RMR (P)	RMR (P)		MR (P)		SVS (P)
RGT Planet®	MRMS	MRMS	MSS	MRMS-S	S	RMR	MRMS	MT	MR	MI	SVS
Rosalind <sup>(b)</sup>	MRMS	MS	S	MRMS	MS	MSS	MRMS	MT	MRMS	TMT	VS
SakuraStar	MSS	MS	S	MS	MR	MSS	MR	MT	MR	MTMI	SVS
Scope CL®	S	MS	S	MS	MS	MRMS	MRMS	MI	MRMS	MI	SVS
Spartacus CL®	MSS	MSS	S	MS	S	MSS	MRMS	MII	MRMS	MI	VS
Spinnaker <sup>(b)</sup>	MSS	MRMS	S	S	MS	RMR	MR		MS	MTMI	VS
Titan AX®	S	MSS	S	MRMS	MRMS	MSS	MR		MR	TMT	VS
Topstart	MRMS	MRMS	MSS	MS	S	RMR	RMR	1	RMR	MI	SVS
Urambie	S	MRMS	MSS	MRMS	S	MS	MRMS	IVI	MR	I	VS
Westminster <sup>(b)</sup>	MRMS	MRMS	MSS	MRMS	S	RMR	MRMS	IVI	MS	I	SVS
Yeti <sup>(b)</sup>	S	MSS	S	MS	MRMS	S	MR	TMT	MR	MT	VS
Zena <sup>(b)</sup> CL	MSS	MRMS (P)	S	MS	S	RMR	MRMS		MR	MT	VS

Learn more via the  $\underline{\text{NVT Disease Ratings}}.$ 

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, T = tolerant, MT = moderately tolerant,

 $MI = moderately \ intolerant, \ I = intolerant, \ VI = very \ intolerant, \ (P) = provisional \ rating, - hyphen \ indicates \ a \ range.$ 



# **CHICKPEA**

### Chickpea variety yield performance - Southern Queensland

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: Billa Billa desi chickpea.											
Year	2019	2020	2021	2022	2023						
Mean yield (t/ha)				3.89	1.49						
CBA Captain <sup>(b)</sup>				105	97						
PBA Boundary®	N	Trial failed	Compromised trial	103	96						
PBA Drummond <sup>(b)</sup>				95	108						
PBA HatTrick <sup>(b)</sup>	No trial			98	93						
PBA Seamer <sup>(b)</sup>				94	95						
Kyabra <sup>(b)</sup>				86							
Sowing date		2 Jun	16 Jun	24 Jun	6 Jun						
Rainfall J-M (mm)		193	256	418	145						
Rainfall A-O (mm)		153	280	443	136						

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

Table 2: Brookstead desi chickpea.						
Year	2019	2020	2021	2022	2023	
Mean yield (t/ha)		1.39			2.44	
PBA Drummond <sup>(b)</sup>	Trial results below standard	105			113	
Kyabra <sup>(b</sup>		105			101	
CBA Captain <sup>(b)</sup>		97	Trial	Trial	96	
PBA Boundary <sup>(b)</sup>		99	failed	failed	94	
PBA Seamer <sup>(b)</sup>		97			92	
PBA HatTrick®		98			90	
Sowing date	22 May	4 Jun	31 May	15 Jun	2 Jun	
Rainfall J-M (mm)	109	289	304	429	140	
Rainfall A-O (mm)	50	237	252	506	143	

Special thanks to 2023 trial cooperator. Learn more via the  $\underline{\text{NVT Long Term Yield Reporter}}$ 

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



Table 3: Condamine desi chickpea.							
Year	2019	2020	2021	2022	2023		
Mean yield (t/ha)	0.78	1.28	1.17	2.76			
PBA Drummond®	94	109	131	105			
Jimbour	92						
Kyabra <sup>(b)</sup>	74	104	110	98	Trial results below		
CBA Captain <sup>(b)</sup>	107	96	88	99			
PBA Seamer®	96	85	113	94	standard		
PBA Boundary®	93	101	70	98			
PBA HatTrick <sup>(b)</sup>	87	93	80	95			
Sowing date	11 Jun	4 Jun	8 Jun	23 Jun	19 Jun		
Rainfall J-M (mm)	105	224	302	228	161		
Rainfall A-O (mm)	32	146	284	633	82		

Special thanks to 2023 trial cooperator, Culara Farming. Learn more via the  $\underline{\text{NVT Long Term Yield Reporter}}$ 

Table 4: Mungindi desi chickpea.						
Year	2019	2020	2021	2022	2023	
Mean yield (t/ha)	0.35		2.59	2.13	1.21	
PBA Drummond <sup>(b)</sup>	100		107	94	112	
CBA Captain <sup>(b)</sup>	105	Compromised trial	99	103	93	
PBA Boundary <sup>(b)</sup>	101		90	109	99	
Kyabra <sup>(b</sup>	75		93	96	113	
PBA HatTrick <sup>(b)</sup>	82	mpro	91	105	94	
PBA Seamer®	72	의	101	93	90	
Jimbour	93					
Sowing date	21 May	3 Jun	12 Jun	11 Jul	5 Jun	
Rainfall J–M (mm)	80	365	377	206	155	
Rainfall A–O (mm)	42	221	286	510	49	

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

# Chickpea variety disease ratings - Queensland

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

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

Variety	Ascochyta blight (pathogen group 2 – north)	2022-23 Phytophthora root rot	RLN resistance ( <i>Pratylenchus</i> neglectus)	RLN tolerance ( <i>Pratylenchus</i> <i>neglectus</i> )	RLN resistance ( <i>Pratylenchus</i> thornei)	RLN tolerance ( <i>Pratylenchus</i> <i>thornei</i> )
DESI						
CBA Captain®	MS	S	MR	MT	MS	MT
Genesis™ 836	S		MR	MII	MS	MT
Kyabra <sup>(b</sup>	VS	VS	MRMS	MT	S	MT
Neelam <sup>(b)</sup>	S		MRMS	MI	MS	MTMI
PBA Boundary <sup>(b)</sup>	S	VS	RMR	MI	MRMS	MT
PBA Drummond <sup>(b)</sup>	VS	VS	MR	TMT	MRMS	MT
PBA HatTrick <sup>(h</sup>	S	S	MRMS	MT	MRMS	MTMI
PBA Maiden <sup>(b</sup>	S		MRMS	MI	MRMS	MII
PBA Pistol®	VS		RMR	T	MRMS	MII
PBA Seamer <sup>(b</sup>	MS	S	MRMS	MI	MRMS	MTMI
PBA Slasher <sup>(b)</sup>	S		MRMS	MI	MRMS	MT
PBA Striker <sup>(b)</sup>	S		MRMS	MI	MRMS	TMT
KABULI						
Almaz <sup>(b</sup>	MS		MRMS	MII	S	IVI
Genesis™ 090	MS		MRMS	IVI	MS	MII
Genesis™ Kalkee	S		MRMS	VI	MS	MI
PBA Magnus <sup>⊕</sup>	MS		MR	MII	MSS	I
PBA Monarch®	MS		MRMS	I	MS	MII
PBA Royal <sup>(†)</sup>	MS		MR	VI	MS	MII

Learn more via the NVT Disease Ratings. R = Ratings. R = Ratings Resistant, R = Ratings R

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



# **FABA BEAN**

## Faba bean variety yield performance - Southern Queensland

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: Billa Billa faba bean.						
Year	2019	2020	2021	2022	2023	
Mean yield (t/ha)			2.24			
PBA Nasma <sup>(b)</sup>			100			
FBA Ayla <sup>(b)</sup>	No trial	Compromised trial	99	Trial failed	Compromised trial	
PBA Warda <sup>(b)</sup>			99			
Cairo			91			
PBA Nanu <sup>(b)</sup>			91			
Doza			85			
Sowing date		17 Apr	27 Apr	27 Apr	25 Apr	
Rainfall J-M (mm)		193	256	418	145	
Rainfall A–O (mm)		153	280	443	136	

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

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



## Faba bean variety disease ratings - Queensland

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

Selected varieties of most relevance to Queensland 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 Queensland.							
Variety	Ascochyta blight	Cercospora leaf spot	Chocolate spot (Botrytis)	RLN resistance (Pratylenchus thornei)*	Leaf rust		
Cairo	VS	S	S	MSS	S		
Doza	VS	S	S	MSS	MR		
Farah <sup>(b)</sup>	MS	S	S	MS	VS		
FBA Ayla <sup>(1)</sup>		S	S	MRMS	MR		
Fiesta VF	S	S	S	MS	VS		
Nura <sup>(b)</sup>	MR (P)	S	MS	MS	VS		
PBA Amberley <sup>(b)</sup>	MR	S	MRMS	MRMS	VS		
PBA Bendoc <sup>(b)</sup>	MR	S	S	MRMS	VS		
PBA Marne <sup>(b)</sup>	MS	S	MS (P)	MS	MRMS		
PBA Nanu <sup>(b)</sup>		S	S	MRMS	MR		
PBA Nasma <sup>(b)</sup>	S	S	S	MSS	MRMS		
PBA Rana®	MRMS (P)	S	MS	MS	VS		
PBA Samira <sup>(b)</sup>	MR (P)	S	MS	MRMS	S		
PBA Warda <sup>(b)</sup>	S	S	S	MRMS	MRMS		
PBA Zahra <sup>(b</sup>	MRMS	S	MS	MRMS	S		

Learn more via the NVT Disease Ratings. R = R resistant, R = R moderately resistant, R = R resistant,



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