

# NVT HARVEST REPORT



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Southern Queensland  
Northern Region



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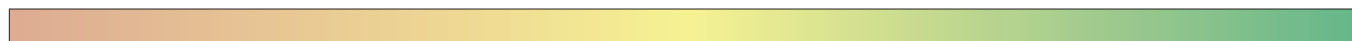
# TABLE OF CONTENTS



This guide can be downloaded to your computer or tablet at:  
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INTRODUCTION	4
WHEAT	6
BARLEY	19
CHICKPEA	25
FABA BEAN	27
USEFUL NVT TOOLS	29

## 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 [nvt.grdc.com.au/nvt-disease-ratings](http://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](http://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 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 2022 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 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 Queensland** 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 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 [Long Term Yield Reporter](#).

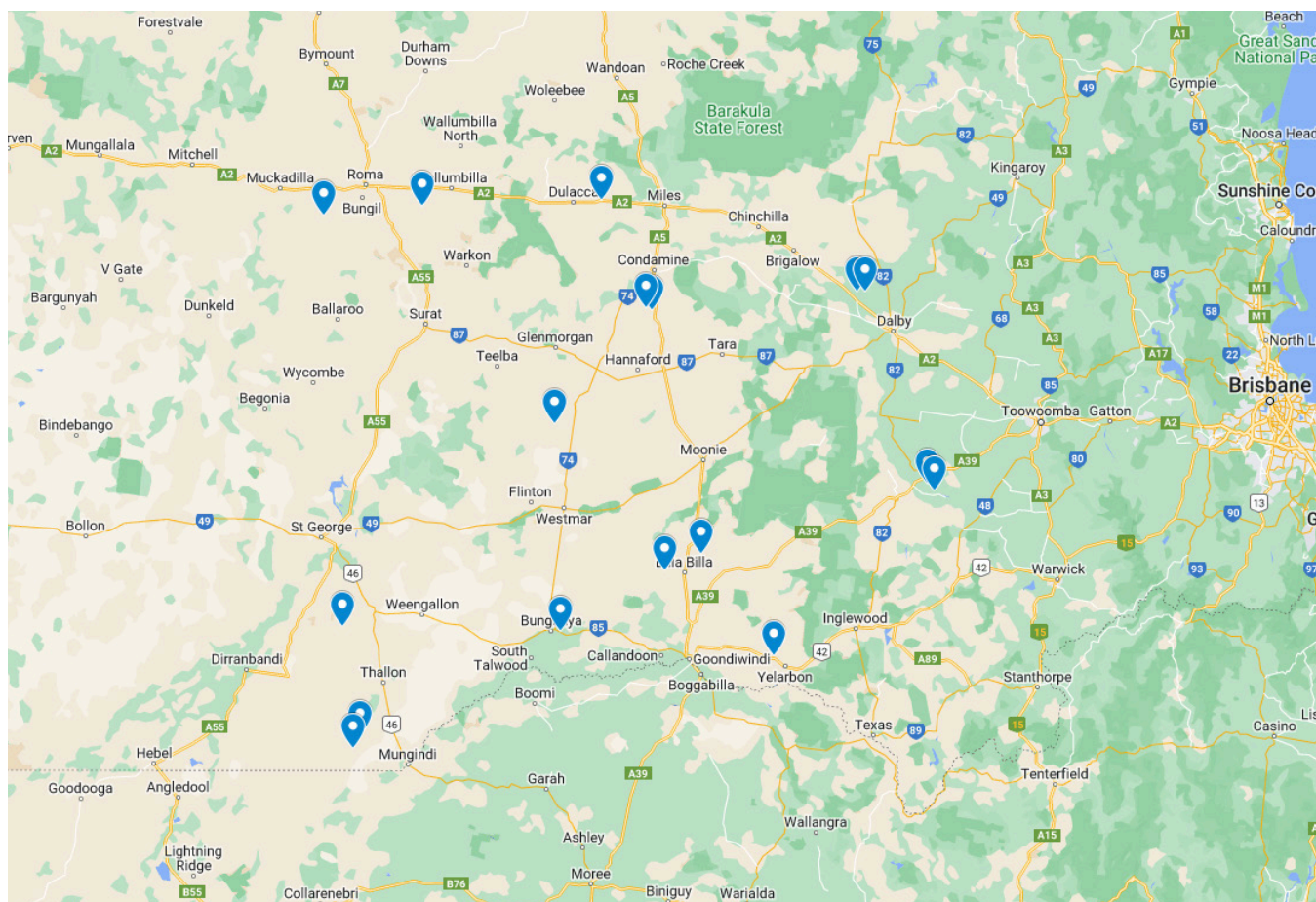
Trials listed as compromised are not suitable for making variety decisions. Results can be found in the [Quarantined trial reports](#).

▶ Refer to the latest **Crop Sowing Guide** for further information at [grdc.com.au/nvt-crop-sowing-guides](https://grdc.com.au/nvt-crop-sowing-guides)

## NVT SITE LOCATIONS – Southern Queensland

Figure 1: Locality of NVT trial sites in Southern Queensland from 2018 to 2022.

SOURCE: NVT Online



See all NVT trial locations and view trial results at [nvt.grdc.com.au/trial-results](http://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
Jillaroo <sup>Ⓓ</sup>	InterGrain	Milling	3.50	Exceptionally high-yielding, quick-maturity spring wheat suited to mid-May onwards sowing with moderate, compact plant height.
Rebel 65	Rebel Seeds	Milling	None provided.	None provided.
Rebel Rat	Rebel Seeds	Feed	None provided.	A mid-maturity variety similar to Borlaug 100 <sup>Ⓓ</sup> . Upright, grows to about a metre, strong resistance to lodging. Replacement for crown rot susceptible varieties. Large seed, high starch suitable for livestock processing.

\* EPR amount is ex-GST, <sup>Ⓓ</sup> denotes Plant Breeder's Rights apply.

WHEAT

BARLEY

CHICKPEA

FABA BEAN

Refer to the latest *Crop Sowing Guide* for further information at [grdc.com.au/nvt-crop-sowing-guides](http://grdc.com.au/nvt-crop-sowing-guides)

## 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	2018	2019	2020	2021	2022
Mean yield (t/ha)	2.62	2.18	4.38		
Sunmaster <sup>db</sup>		112	102	Compromised trial	Compromised trial
Scepter <sup>db</sup>	109	113	100		
Rebel Rat			102		
Borlaug 100 <sup>db</sup>	96	103	109		
Suncentral <sup>db</sup>		108	104		
Boree <sup>db</sup>			100		
Sunprime <sup>db</sup>	94	104	108		
LRPB Mustang <sup>db</sup>	90	106	109		
LRPB Oryx <sup>db</sup>		117	95		
Coota <sup>db</sup>		100	102		
IMI-TOLERANT					
Sunblade CL Plus <sup>db</sup>		110	100		
Elmore CL Plus <sup>db</sup>	103	97	95		
Sowing date	13 Jun	14 Jun	11 Jun	1 Jun	17 Jun
Rainfall J–M (mm)	119	109	289	304	429
Rainfall A–O (mm)	210	50	237	252	506

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

**Table 2: Condamine main season wheat.**

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	1.45		3.00	4.28	5.06
Sunmaster <sup>db</sup>		Trial failed	102	113	122
LRPB Raider <sup>db</sup>			100	104	120
Suncentral <sup>db</sup>			101	108	116
LRPB Reliant <sup>db</sup>	113		105	103	109
LRPB Stealth <sup>db</sup>					109
Rebel Rat			105	106	103
Borlaug 100 <sup>db</sup>	106		105	105	104
Sunchaser <sup>db</sup>	98		100	100	113
Suntop <sup>db</sup>	97		100	101	112
SEA Condamine	109			104	102
IMI-TOLERANT					
Sunblade CL Plus <sup>db</sup>			104	113	113
Elmore CL Plus <sup>db</sup>	98		99	92	88
Sowing date	12 Jul	11 Jun	26 May	10 May	31 May
Rainfall J–M (mm)	155	105	224	302	251
Rainfall A–O (mm)	197	32	146	284	510

Special thanks to 2022 trial cooperator, Culara Farming.  
Learn more via the [NVT Long Term Yield Reporter](#)

**Table 3: Dulacca main season wheat.**

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		1.55	2.27	3.58	
Sunmaster <sup>db</sup>	Trial failed	123	114	119	Compromised trial
Suncentral <sup>db</sup>		118	116	114	
Borlaug 100 <sup>db</sup>		113	119	114	
LRPB Mustang <sup>db</sup>		116	113	107	
Rebel Rat			108	111	
SEA Condamine		104	115	108	
Calibre <sup>db</sup>				110	
Sunprime <sup>db</sup>		113	109	107	
Sunchaser <sup>db</sup>		111	106	107	
Scepter <sup>db</sup>		108	106	107	
IMI-TOLERANT					
Sunblade CL Plus <sup>db</sup>		117	109	115	
Elmore CL Plus <sup>db</sup>		91	82	90	
Sowing date	11 Jul	15 May	18 Jun	11 May	2 Jun
Rainfall J–M (mm)	183	114	454	263	184
Rainfall A–O (mm)	156	74	120	229	331

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

**Table 4: Lundavra main season wheat.**

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	1.91			3.01	4.62
Sunmaster <sup>db</sup>		Trial failed	Trial failed	115	116
Rebel Rat				107	108
Suncentral <sup>db</sup>				111	110
Borlaug 100 <sup>db</sup>	116			111	103
Calibre <sup>db</sup>				116	99
SEA Condamine	118			105	100
Scepter <sup>db</sup>	100			111	102
Sunchaser <sup>db</sup>	101			104	105
Suntop <sup>db</sup>	98			105	105
LRPB Reliant <sup>db</sup>	119			107	95
IMI-TOLERANT					
Sunblade CL Plus <sup>db</sup>				115	111
Elmore CL Plus <sup>db</sup>	92			91	96
Sowing date	10 Jul	6 Jun	13 May	14 May	8 May
Rainfall J–M (mm)	148	64	115	209	383
Rainfall A–O (mm)	194	54	117	175	386

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

WHEAT

BARLEY

CHICKPEA

FABA BEAN

Table 5: Macalister main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		1.34	3.30		
Borlaug 100 <sup>db</sup>	No trial	113	122	<a href="#">Compromised trial</a>	<a href="#">Compromised trial</a>
SEA Condamine		111	118		
Rebel Rat			110		
Suncentral <sup>db</sup>		108	110		
LRPB Mustang <sup>db</sup>		105	110		
Sunprime <sup>db</sup>		105	109		
Condo <sup>db</sup>		102	110		
Sunmaster <sup>db</sup>		108	106		
LG-Gold <sup>db</sup>		98	110		
Sunchaser <sup>db</sup>		105	107		
IMI-TOLERANT					
Sunblade CL Plus <sup>db</sup>		106	101		
Elmore CL Plus <sup>db</sup>		93	91		
Sowing date		15 Jun	10 Jun	27 May	21 Jun
Rainfall J–M (mm)		129	282	277	268
Rainfall A–O (mm)		56	144	282	401

Special thanks to 2022 trial cooperator, Schelberg Ag Pty Ltd.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 6: Mungindi main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		1.52	3.14	5.10	
Borlaug 100 <sup>db</sup>	No trial	114	108	99	<a href="#">Compromised trial</a>
Sunmaster <sup>db</sup>		107	105	102	
Rebel Rat			103	102	
Suncentral <sup>db</sup>		108	107	100	
SEA Condamine		110	105	99	
Calibre <sup>db</sup>				102	
Scepter <sup>db</sup>		104	102	101	
Vixen <sup>db</sup>				97	
Condo <sup>db</sup>		108	104	98	
Jillaroo <sup>db</sup>				101	
IMI-TOLERANT					
Sunblade CL Plus <sup>db</sup>		104	102	102	
Elmore CL Plus <sup>db</sup>		95	93	100	
Sowing date		14 May	14 May	13 May	16 Jun
Rainfall J–M (mm)		80	365	377	206
Rainfall A–O (mm)		42	221	286	510

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

Table 7: Nindigully main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			3.05	3.33	
Calibre <sup>db</sup>	No trial	Trial failed		113	Trial failed
Vixen <sup>db</sup>				111	
Borlaug 100 <sup>db</sup>			112	106	
Jillaroo <sup>db</sup>				111	
Sunprime <sup>db</sup>			110	105	
Scepter <sup>db</sup>			104	109	
Sunmaster <sup>db</sup>			106	107	
Rebel Rat			107	106	
LRPB Mustang <sup>db</sup>			109	104	
Suncentral <sup>db</sup>			106	104	
IMI-TOLERANT					
Sunblade CL Plus <sup>db</sup>			105	109	
Elmore CL Plus <sup>db</sup>			98	97	
Sowing date		14 May	25 May	12 May	8 May
Rainfall J–M (mm)		23	290	291	196
Rainfall A–O (mm)		57	149	159	507

Special thanks to 2022 trial cooperator, Malanga Pastoral.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 8: Roma main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)				3.16	
LRPB Raider <sup>db</sup>	Trial failed	No trial	Trial failed	117	<a href="#">Compromised trial</a>
LRPB Reliant <sup>db</sup>				111	
DS Faraday <sup>db</sup>				109	
Sunmaster <sup>db</sup>				109	
Catapult <sup>db</sup>				106	
LRPB Flanker <sup>db</sup>				105	
Coota <sup>db</sup>				104	
Suncentral <sup>db</sup>				103	
Rebel Rat				103	
Calibre <sup>db</sup>				103	
IMI-TOLERANT					
Sunblade CL Plus <sup>db</sup>				109	
Elmore CL Plus <sup>db</sup>				95	
Sowing date	12 Jul		27 May	12 May	2 Jun
Rainfall J–M (mm)	218		404	280	129
Rainfall A–O (mm)	110		135	141	404

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



Table 9: Westmar main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	2.83		2.00	4.31	
LRPB Raider <sup>db</sup>		No trial	120	100	Compromised trial
LRPB Reliant <sup>db</sup>	117		115	100	
Sunmaster <sup>db</sup>			105	102	
Suncentral <sup>db</sup>			107	101	
Borlaug 100 <sup>db</sup>	118		104	101	
SEA Condamine	117		106	100	
Rebel Rat			98	102	
Catapult <sup>db</sup>				104	
Sunchaser <sup>db</sup>	111		102	99	
Calibre <sup>db</sup>				105	
IMI-TOLERANT					
Sunblade CL Plus <sup>db</sup>			102	103	
Elmore CL Plus <sup>db</sup>	84		85	99	
Sowing date	10 Jul		25 May	14 May	1 Jun
Rainfall J–M (mm)	212		307	209	383
Rainfall A–O (mm)	212		139	175	386

Special thanks to 2022 trial cooperator, Westmar/Inglestone.

Learn more via the [NVT Long Term Yield Reporter](#)

Table 10: Yelarbon main season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			3.49	3.86	
Sunmaster <sup>db</sup>	No trial	No trial	103	119	Compromised trial
Borlaug 100 <sup>db</sup>			101	117	
Suncentral <sup>db</sup>			100	116	
Rebel Rat			104	112	
Calibre <sup>db</sup>				108	
SEA Condamine			102	113	
LRPB Raider <sup>db</sup>			110	105	
Scepter <sup>db</sup>			104	105	
Catapult <sup>db</sup>				101	
LRPB Reliant <sup>db</sup>					
IMI-TOLERANT					
Sunblade CL Plus <sup>db</sup>			104	113	
Elmore CL Plus <sup>db</sup>			96	84	
Sowing date			13 May	21 May	18 Jun
Rainfall J–M (mm)			236	295	265
Rainfall A–O (mm)			199	304	421

Special thanks to 2022 trial cooperator, Wondalli Partnership.

Learn more via the [NVT Long Term Yield Reporter](#)

Table 11: Brookstead early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	2.11	3.02			4.78
Coota <sup>db</sup>		118	Compromised trial	No trial	103
LRPB Raider <sup>db</sup>					112
Coolah <sup>db</sup>	113	117			101
Sunflex <sup>db</sup>	120	107			104
Sunmax <sup>db</sup>	119	110			102
LRPB Stealth <sup>db</sup>		117			98
LRPB Nighthawk <sup>db</sup>	117				113
LRPB Lancer <sup>db</sup>	96	113			94
EGA Gregory <sup>db</sup>	80	117			94
RGT Zanzibar	115	48			122
Sowing date	25 May	10 May	1 Jun		29 Apr
Rainfall J–M (mm)	119	109	289		429
Rainfall A–O (mm)	210	50	237		506

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

Learn more via the [NVT Long Term Yield Reporter](#)

Table 12: Condamine early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		1.62	3.05	4.43	5.71
LRPB Raider <sup>db</sup>	Compromised trial		115	112	111
Coota <sup>db</sup>		108	109	115	105
Coolah <sup>db</sup>		104	113	113	101
Sunflex <sup>db</sup>		102	108		101
LRPB Stealth <sup>db</sup>		105	111	110	99
Sunmax <sup>db</sup>		100	100	98	114
DS Faraday <sup>db</sup>		94	115	100	101
EGA Gregory <sup>db</sup>		99	114		98
LRPB Reliant <sup>db</sup>		98	117	100	94
LRPB Flanker <sup>db</sup>		98	114	102	94
IMI-TOLERANT					
Valiant <sup>db</sup> CL Plus				98	
Sowing date	30 Apr	30 Apr	16 May	29 Apr	26 Apr
Rainfall J–M (mm)	155	105	224	302	251
Rainfall A–O (mm)	197	32	146	284	510

Special thanks to 2022 trial cooperator, Culara Farming.

Learn more via the [NVT Long Term Yield Reporter](#)

Table 13: Dulacca early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		1.38		3.42	5.48
Coota <sup>db</sup>	Trial failed	116	Trial failed	117	100
Sunflex <sup>db</sup>		112			100
Coolah <sup>db</sup>		112		117	97
LRPB Raider <sup>db</sup>				122	106
LRPB Stealth <sup>db</sup>		114		113	95
LRPB Lancer <sup>db</sup>		120		99	95
LRPB Nighthawk <sup>db</sup>				95	113
LRPB Flanker <sup>db</sup>		101		107	91
EGA Gregory <sup>db</sup>		92			92
Sunmax <sup>db</sup>		65			94
IMI-TOLERANT					
Valiant <sup>db</sup> CL Plus				87	
Sowing date	11 May	29 Apr	16 May	29 Apr	28 Apr
Rainfall J–M (mm)	183	114	454	263	184
Rainfall A–O (mm)	156	74	120	229	331

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

Table 14: Lundavra early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	3.28			3.24	4.43
LRPB Raider <sup>db</sup>		Trial failed	Trial failed	117	109
Sunmax <sup>db</sup>	108			104	111
Coota <sup>db</sup>				112	104
Coolah <sup>db</sup>	104			111	101
Sunflex <sup>db</sup>	102				102
LRPB Nighthawk <sup>db</sup>	102			98	110
DS Faraday <sup>db</sup>	105			106	99
LRPB Stealth <sup>db</sup>				108	99
EGA Gregory <sup>db</sup>	104				97
LRPB Reliant <sup>db</sup>					104
IMI-TOLERANT					
Valiant <sup>db</sup> CL Plus				88	
Sowing date	2 May	24 Apr	28 Apr	26 Apr	30 Apr
Rainfall J–M (mm)	148	64	115	209	383
Rainfall A–O (mm)	194	54	117	175	386

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

Table 15: Macalister early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		2.59	3.51		
LRPB Reliant <sup>db</sup>	No trial	102	119	<a href="#">Compromised trial</a>	No trial
Denison <sup>db</sup>			112		
LRPB Flanker <sup>db</sup>		102	117		
DS Faraday <sup>db</sup>		106	114		
LRPB Raider <sup>db</sup>			108		
EGA Gregory <sup>db</sup>		104	115		
Coolah <sup>db</sup>		105	113		
Mitch <sup>db</sup>		102	115		
LRPB Stealth <sup>db</sup>		103	112		
Coota <sup>db</sup>		105	108		
Sowing date		7 May	28 May	10 May	
Rainfall J–M (mm)		129	282	277	
Rainfall A–O (mm)		56	144	282	

Special thanks to 2022 trial cooperator, Schelberg Ag Pty Ltd.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 16: Mungindi early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			2.66	4.39	
Denison <sup>db</sup>	Trial failed	Trial failed	134	99	Trial failed
LRPB Raider <sup>db</sup>			131	100	
Catapult <sup>db</sup>				99	
Coota <sup>db</sup>			124	101	
Coolah <sup>db</sup>			126	99	
RockStar <sup>db</sup>				101	
LRPB Stealth <sup>db</sup>			121	98	
Willaura <sup>db</sup>				109	
DS Faraday <sup>db</sup>			119	93	
LRPB Flanker <sup>db</sup>			117	94	
IMI-TOLERANT					
Valiant <sup>db</sup> CL Plus				100	
Sowing date	10 May	24 Apr	29 Apr	27 Apr	7 May
Rainfall J–M (mm)	132	80	365	377	206
Rainfall A–O (mm)	141	42	221	286	510

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

Table 17: Nindigully early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			3.09	3.69	
Catapult <sup>db</sup>	Trial failed	Trial failed		122	Trial failed
Denison <sup>db</sup>			125	116	
LRPB Raider <sup>db</sup>			128	112	
Coolah <sup>db</sup>			123	114	
RockStar <sup>db</sup>				118	
LRPB Reliant <sup>db</sup>			128	106	
LRPB Flanker <sup>db</sup>			125	107	
LRPB Stealth <sup>db</sup>			119	112	
Coota <sup>db</sup>			116	114	
DS Faraday <sup>db</sup>			125	104	
IMI-TOLERANT					
Valiant <sup>db</sup> CL Plus				98	
Sowing date	10 May	14 May	30 Apr	28 Apr	27 Apr
Rainfall J–M (mm)	97	23	290	291	196
Rainfall A–O (mm)	138	57	149	159	507

Special thanks to 2022 trial cooperator, Malanga Pastoral.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 18: Roma early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)				2.85	4.90
LRPB Raider <sup>db</sup>	Trial failed	Trial failed	Trial failed	130	115
Sunmax <sup>db</sup>				106	112
DS Faraday <sup>db</sup>				111	108
LRPB Nighthawk <sup>db</sup>				102	112
Coolah <sup>db</sup>				117	102
Coota <sup>db</sup>				117	101
Sunflex <sup>db</sup>					101
EGA Gregory <sup>db</sup>					104
LRPB Stealth <sup>db</sup>				112	100
LRPB Reliant <sup>db</sup>				106	102
IMI-TOLERANT					
Valiant <sup>db</sup> CL Plus				74	
Sowing date	11 May	1 May	15 May	30 Apr	28 Apr
Rainfall J–M (mm)	218	63	404	280	129
Rainfall A–O (mm)	110	106	135	141	404

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

Table 19: Westmar early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	3.28		2.08	4.51	3.52
Sunmax <sup>db</sup>	121	Trial failed	120	98	133
LRPB Raider <sup>db</sup>			126	107	120
DS Faraday <sup>db</sup>	116		118	103	110
EGA Gregory <sup>db</sup>	113		112		103
LRPB Nighthawk <sup>db</sup>	95		110	99	121
LRPB Reliant <sup>db</sup>			110	103	96
Coota <sup>db</sup>			108	104	105
Coolah <sup>db</sup>	101		108	105	100
LRPB Stealth <sup>db</sup>			105	104	98
Rebel 65					
IMI-TOLERANT					
Valiant <sup>db</sup> CL Plus				95	
Sowing date	1 May	30 Apr	30 Apr	28 Apr	26 Apr
Rainfall J–M (mm)	212	84	307	209	383
Rainfall A–O (mm)	212	36	139	175	386

Special thanks to 2022 trial cooperator, Westmar/Inglestone.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 20: Yelarbon early season wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			3.56	4.20	5.05
LRPB Raider <sup>db</sup>	No trial	No trial	126	122	104
LRPB Nighthawk <sup>db</sup>			119	104	108
Sunflex <sup>db</sup>			104		104
Coota <sup>db</sup>			102	119	101
Coolah <sup>db</sup>			104	113	99
Sunmax <sup>db</sup>			111	107	95
LRPB Stealth <sup>db</sup>			100	108	97
DS Faraday <sup>db</sup>			112	96	91
EGA Gregory <sup>db</sup>			105		91
LRPB Flanker <sup>db</sup>					103
IMI-TOLERANT					
Valiant <sup>db</sup> CL Plus				87	
Sowing date			29 Apr	26 Apr	30 Apr
Rainfall J–M (mm)			236	295	265
Rainfall A–O (mm)			199	304	421

Special thanks to 2022 trial cooperator, Wondalli Partnership.  
Learn more via the [NVT Long Term Yield Reporter](#)



Table 21: Lundavra durum wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	1.72			2.62	4.34
Westcourt <sup>db</sup>	104	Trial failed	Trial failed	110	110
Bitalli <sup>db</sup>				110	109
DBA Mataroi <sup>db</sup>	101			111	107
DBA-Aurora <sup>db</sup>	102			96	105
Caparoi <sup>db</sup>	102			99	98
DBA Bindaroi <sup>db</sup>	103			94	100
DBA-Artemis <sup>db</sup>				89	102
DBA Vittaroi <sup>db</sup>	98			98	97
DBA Spes <sup>db</sup>					99
DBA Lillaroi <sup>db</sup>	96			98	90
Sowing date	10 Jul	6 Jun	13 May	14 May	8 May
Rainfall J–M (mm)	148	64	115	209	383
Rainfall A–O (mm)	194	54	117	175	386

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

Table 22: Macalister durum wheat.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		0.77	3.97		5.08
Westcourt <sup>db</sup>	No trial	106	103	Compromised trial	105
DBA Mataroi <sup>db</sup>		107	102		104
Bitalli <sup>db</sup>		107			104
Caparoi <sup>db</sup>		97	104		102
DBA Lillaroi <sup>db</sup>		96	105		100
Jandaroi <sup>db</sup>		94	105		97
DBA Vittaroi <sup>db</sup>		99	100		99
DBA Bindaroi <sup>db</sup>		96	99		99
DBA-Aurora <sup>db</sup>		101	94		97
DBA Spes <sup>db</sup>			93		95
Sowing date		15 Jun	10 Jun	27 May	21 Jun
Rainfall J–M (mm)		129	282	277	268
Rainfall A–O (mm)		56	144	282	401

Special thanks to 2022 trial cooperator, Schelberg Ag Pty Ltd.  
Learn more via the [NVT Long Term Yield Reporter](#)

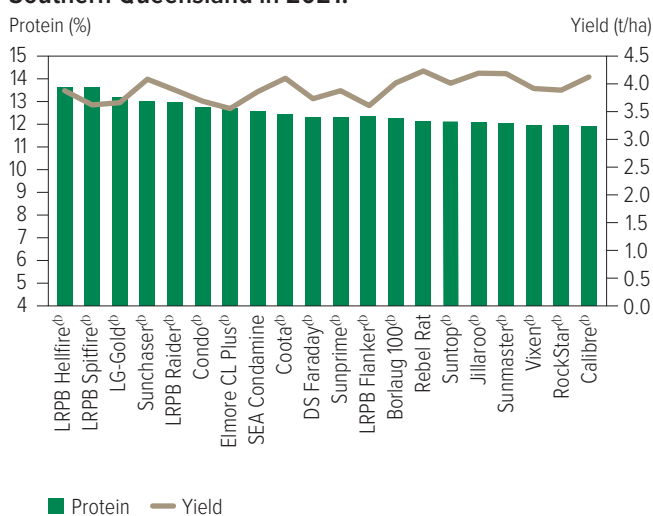
## Wheat variety quality – Southern Queensland

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.

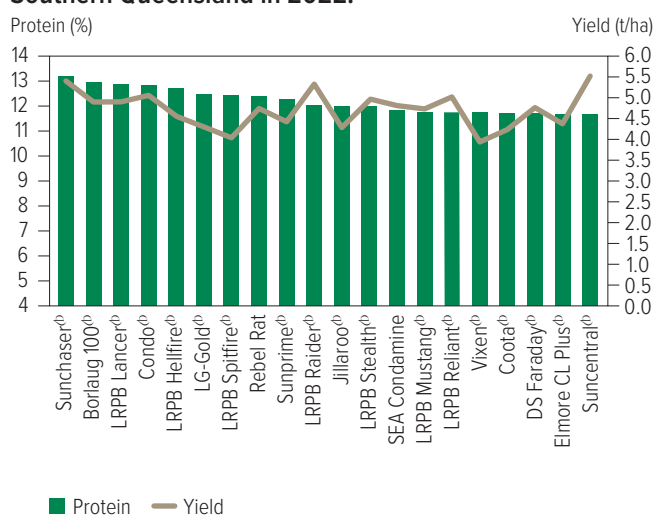
The following figures show the grain quality trends as histograms from 2021 and 2022 NVT averaged for trials in the Southern Queensland region. Only the varieties evaluated at every site are included. These are plotted in order of performance, up to a maximum of 20.

### Protein and yield comparisons

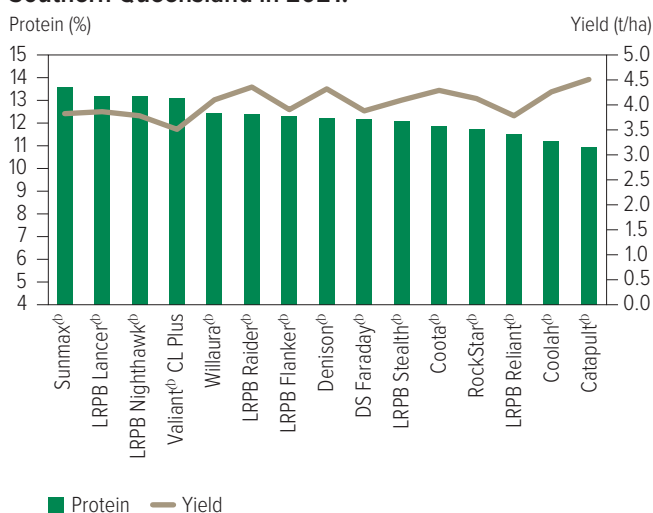
**Figure 1: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from eight NVT sites in Southern Queensland in 2021.**



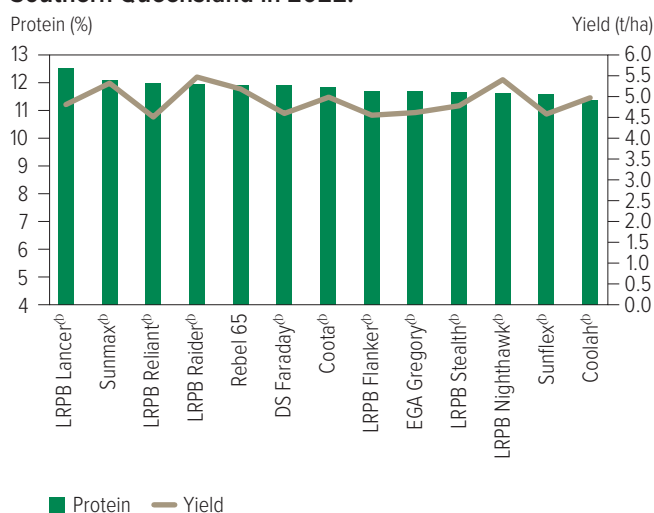
**Figure 2: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from two NVT sites in Southern Queensland in 2022.**



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



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



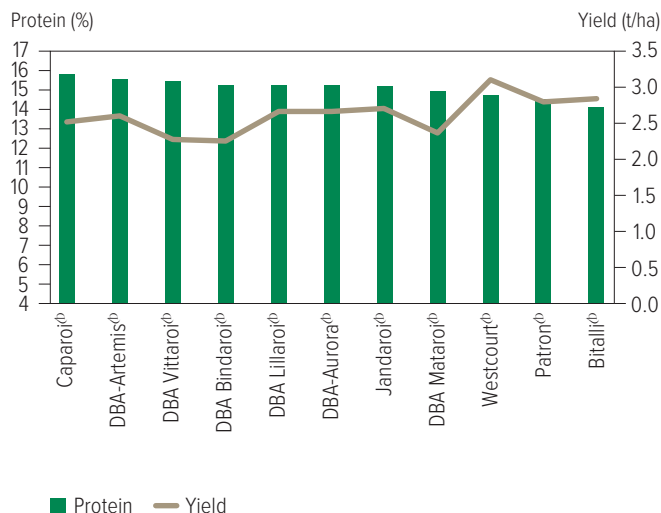
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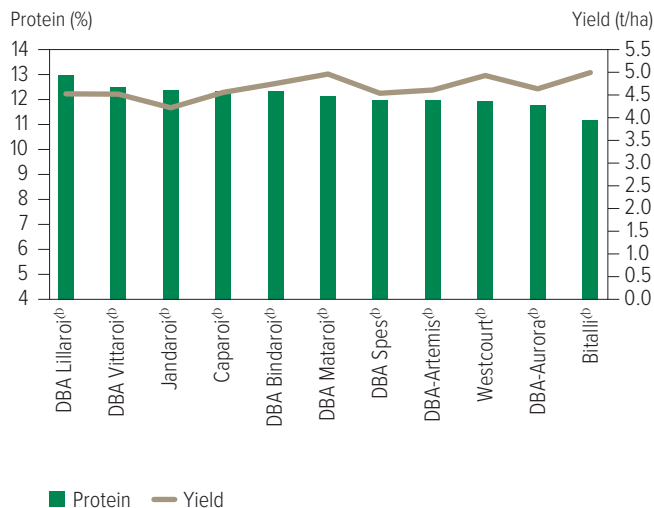
CHICKPEA

FABA BEAN

**Figure 5: Protein (%) and yield (t/ha) comparisons for durum wheat varieties from one NVT site in Southern Queensland in 2021.**

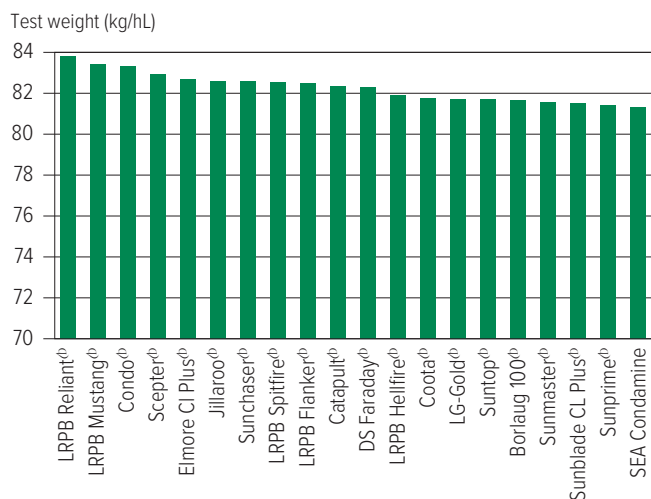


**Figure 6: Protein (%) and yield (t/ha) comparisons for durum wheat varieties from two NVT sites in Southern Queensland in 2022.**

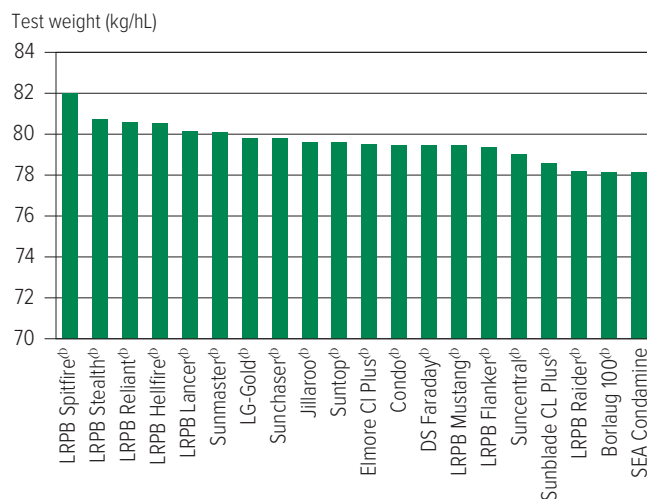


## Test weight comparisons

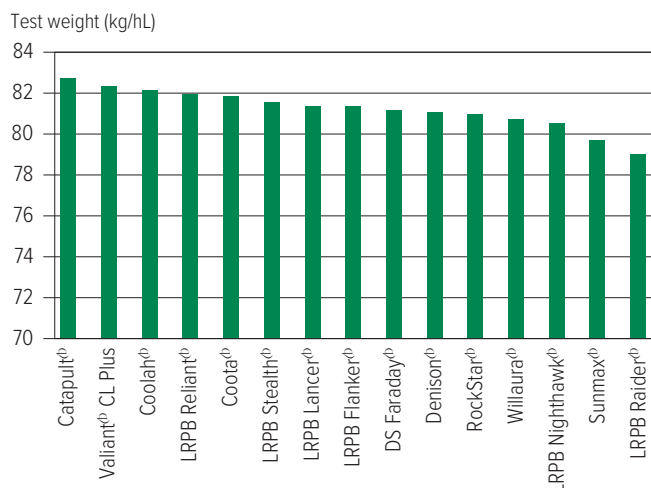
**Figure 7: Test weight (kg/hL) comparisons for main season wheat varieties from eight NVT sites in Southern Queensland in 2021.**



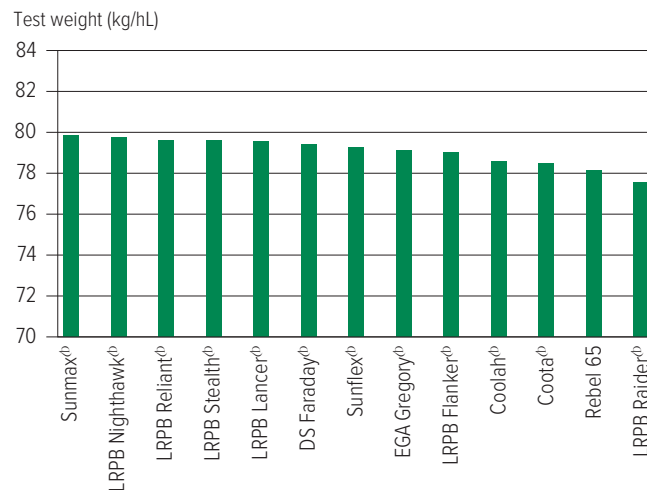
**Figure 8: Test weight (kg/hL) comparisons for main season wheat varieties from two NVT sites in Southern Queensland in 2022.**



**Figure 9: Test weight (kg/hL) comparisons for early season wheat varieties from eight NVT sites in Southern Queensland in 2021.**

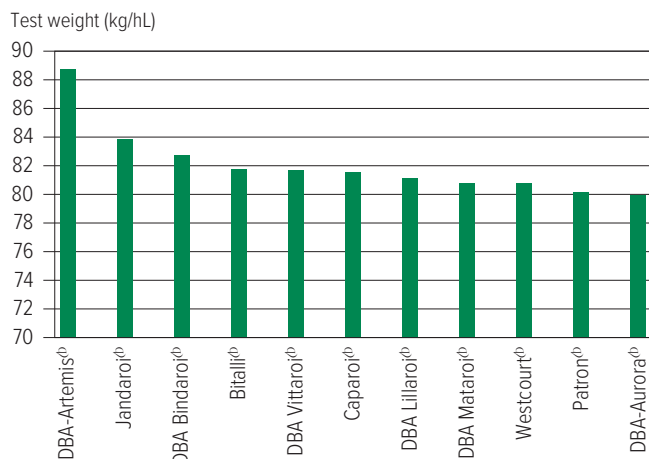


**Figure 10: Test weight (kg/hL) comparisons for early season wheat varieties from seven NVT sites in Southern Queensland in 2022.**

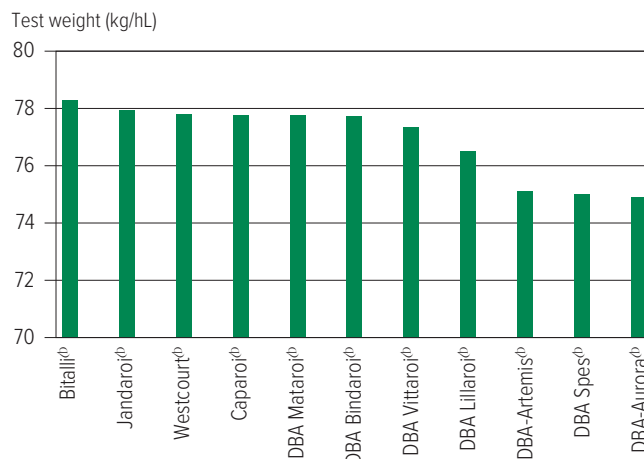




**Figure 11: Test weight (kg/hL) comparisons for durum wheat varieties from one NVT site in Southern Queensland in 2021.**

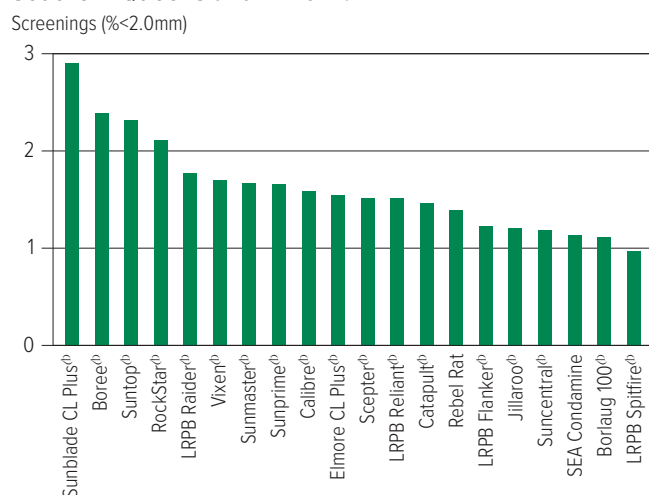


**Figure 12: Test weight (kg/hL) comparisons for durum wheat varieties from two NVT sites in Southern Queensland in 2022.**

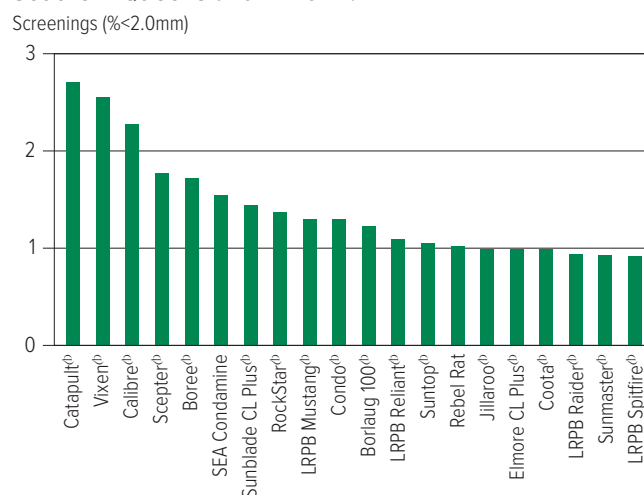


## Screenings comparisons

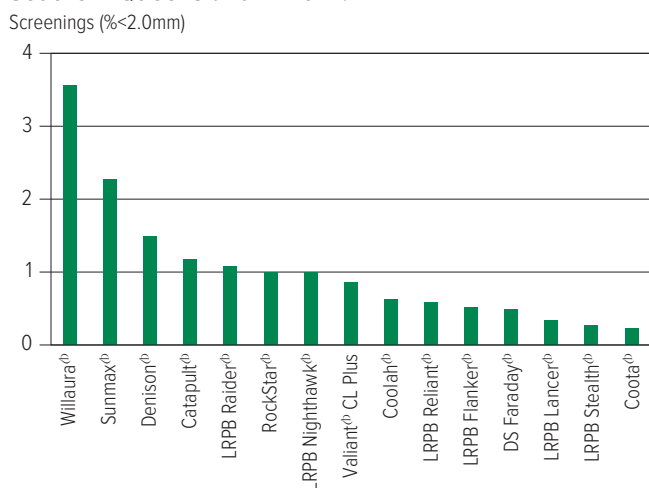
**Figure 13: Screenings (<2.0mm) comparisons for main season wheat varieties from eight NVT sites in Southern Queensland in 2021.**



**Figure 14: Screenings (<2.0mm) comparisons for main season wheat varieties from two NVT sites in Southern Queensland in 2022.**



**Figure 15: Screenings (<2.0mm) comparisons for early season wheat varieties from eight NVT sites in Southern Queensland in 2021.**



**Figure 16: Screenings (<2.0mm) comparisons for early season wheat varieties from seven NVT sites in Southern Queensland in 2022.**

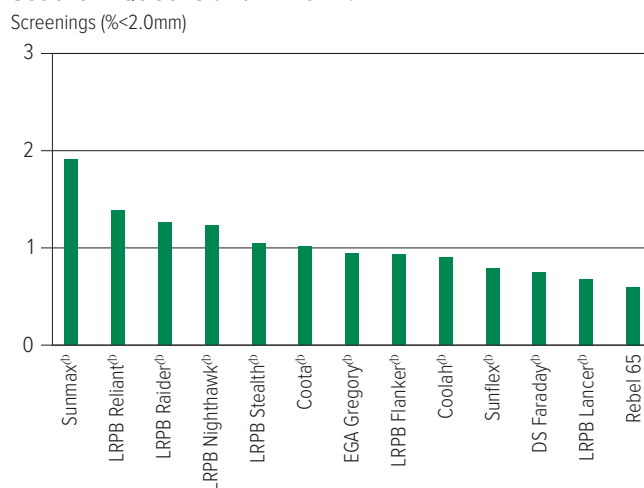


Figure 17: Screenings (<2.0mm) comparisons for durum wheat varieties from one NVT site in Southern Queensland in 2021.

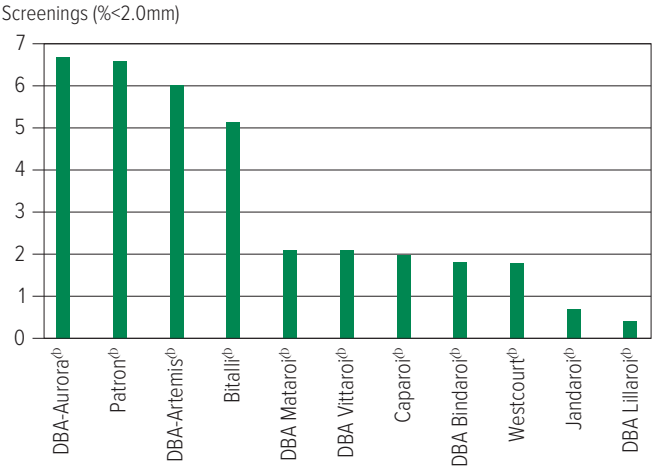
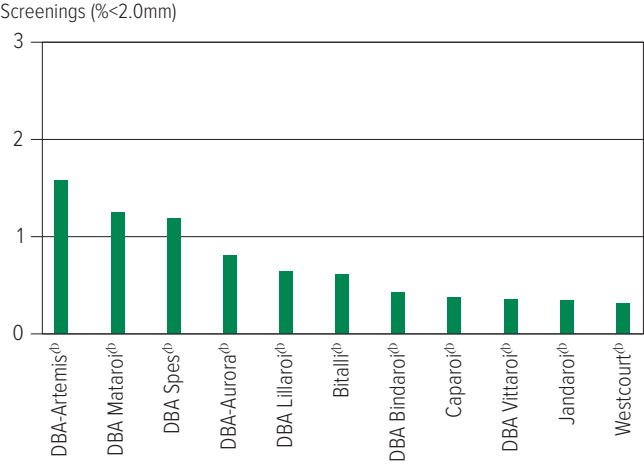


Figure 18: Screenings (<2.0mm) comparisons for durum wheat varieties from two NVT sites in Southern Queensland in 2022.



## Wheat variety disease ratings – Queensland

The following table contains varietal ratings for the predominant diseases of wheat in Queensland. These ratings are updated annually by crop pathologists and were released in March 2023.

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 disease guide for Queensland.

Variety	Leaf rust resistance	Stem rust resistance	Stripe rust (east coast resistance)	Black point	Crown rot resistance	RLN resistance ( <i>Pratylenchus neglectus</i> )	RLN tolerance ( <i>Pratylenchus neglectus</i> )	RLN resistance ( <i>Pratylenchus thornei</i> )	RLN tolerance ( <i>Pratylenchus thornei</i> )	Yellow leaf spot resistance
Boree <sup>db</sup>	S	MR	SVS	S	S	S	I	MSS	MII	MRMS
Borlaug 100 <sup>db</sup>	MR	MR	SVS	MSS	MSS	S	T	MS	T	MRMS
Calibre <sup>db</sup>	S	MR	S	MS (P)	S	S	MT	MSS	MI	MRMS
Catapult <sup>db</sup>	S	MR	S	S	MSS	S	MII	MS	MT	MRMS
Condo <sup>db</sup>	S	MR	MS	MS	S	S	MT	MS	TMT	MS
Coolah <sup>db</sup>	RMR	MR	MSS	S	MSS	S	MT	MS	MT	MSS
Coota <sup>db</sup>	MR	RMR	S	MS	MSS	MR	MI	MS	MTMI	MSS
DS Faraday <sup>db</sup>	R#	RMR	MS	MSS	MSS	S	MTMI	MSS	MT	MSS
EG Titanium	MS	MS	MR	MSS	MSS	MSS	MTMI	MSS	MTMI	MSS
EGA Gregory <sup>db</sup>	RMR#	MR	MS	MSS	S	S	MT	MSS	MT	S
Jillaroo <sup>db</sup>	S	MS	MSS	MSS (P)	S	S	I	MS (P)	I	MRMS
LG-Gold <sup>db</sup>	S	MSS	SVS	S	MSS	S	MTMI	S	MII	S
LRPB Avenger <sup>db</sup>	S	MS	S	MS	SVS	MSS	MI	MS	MI	MS
LRPB Flanker <sup>db</sup>	RMR#	MR	MRMS	MS	MSS	S	MT	MSS	MT	MSS
LRPB Hellfire <sup>db</sup>	MSS	MR	MRMS	S	MSS	MSS	MTMI	MSS	MI	MSS
LRPB Lancer <sup>db</sup>	RMR	R	RMR	MRMS	MSS	S	MTMI	MS	TMT	MS
LRPB Mustang <sup>db</sup>	MSS	MRMS	MR	MS	MSS	S	MI	MSS	MTMI	MSS
LRPB Nighthawk <sup>db</sup>	MSS	RMR	MRMS	MS	MSS	MSS	IVI	MS	MI	MS
LRPB Raider <sup>db</sup>	RMR	RMR	MR	S (P)	S	MSS	MTMI	MS	MT	MSS
LRPB Reliant <sup>db</sup>	RMR	R	MR	MS	MS	SVS	MTMI	MSS	TMT	S
LRPB Spitfire <sup>db</sup>	S	MR	MR (S)	MSS	MS	MSS	MI	MS	MTMI	S
LRPB Stealth <sup>db</sup>	RMR#	R	RMR	MRMS	MSS	MSS	MTMI	S	MTMI	MS
Rebel 65	MS (P)	MSS (P)	MSS (P)	MSS (P)	MSS (P)	S	TMT	MS	MT	MSS (P)
Rebel Rat	MSS	MRMS	MS (P)	MSS (P)	S (P)	S	T	MSS	TMT	MRMS
RGT Zanzibar	SVS	VS	MRMS	MRMS	S	S	IVI	MS (P)	MI	MS
RockStar <sup>db</sup>	S	MRMS	S	MSS	S	MRMS	I	MS	MI	MRMS
Scepter <sup>db</sup>	MSS	MRMS	MSS	MS	MSS	S	MTMI	MSS	MT	MRMS
SEA Condamine	RMR#	MRMS	MSS	MRMS	MSS	S	MT	MS	MT	MSS
Severn <sup>db</sup>	MRMS	MS	RMR	MR	S	S		MRMS		MRMS
Sunblade CL Plus <sup>db</sup>	MSS	MS	MRMS	MRMS	S	MSS	MI	MRMS	MT	MSS
Suncentral <sup>db</sup>	RMR	MRMS	MSS	MRMS	MSS	MRMS	MI	MRMS	MT	MSS
Sunchaser <sup>db</sup>	R	MR	RMR	MRMS	MSS	MSS	MTMI	MSS	MT	MS
Sunflex <sup>db</sup>	RMR/S	MR	MRMS	MSS	MSS	S	MI	MSS	MI	MS
Sunmaster <sup>db</sup>	RMR#	MS	MRMS	MR	S	MRMS	MTMI	MS	TMT	MSS
Sunmax <sup>db</sup>	MS	MRMS	RMR	MRMS	MSS	S	MT	MS	MI	MSS
Sunprime <sup>db</sup>	MR#	MS	MS	MSS	S	S	MTMI	S	MT	MSS
Suntop <sup>db</sup>	MR	MRMS	MRMS	MSS	MSS	S	MT	MRMS	TMT	MSS
Valiant <sup>db</sup> CL Plus	S	MR	MSS	MS (P)	S	S	MII	S (P)	IVI	MRMS
Vixen <sup>db</sup>	SVS	MRMS	SVS	MSS	S	MRMS	I	MS	I	MRMS
<b>DURUM</b>										
Bitalli <sup>db</sup>	MR	RMR	MRMS	MS	SVS	MSS	MI	RMR	MII	MRMS
Caparoi <sup>db</sup>	RMR	MR	MS	MSS	VS	MS	MI	MR	MT	MR
DBA Bindaroi <sup>db</sup>	MR	MR	MS	MRMS	SVS	MRMS	MI	MR	MTMI	MRMS
DBA Lillaro <sup>db</sup>	RMR	RMR	MS	MS	SVS	MRMS	MI	RMR	MT	MRMS

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Table 23: Wheat disease guide for Queensland (continued).

Variety	Leaf rust resistance	Stem rust resistance	Stripe rust (east coast resistance)	Black point	Crown rot resistance	RLN resistance ( <i>Pratylenchus neglectus</i> )	RLN tolerance ( <i>Pratylenchus neglectus</i> )	RLN resistance ( <i>Pratylenchus thornei</i> )	RLN tolerance ( <i>Pratylenchus thornei</i> )	Yellow leaf spot resistance
DBA Mataroi <sup>db</sup>	MR	MR	MS	MS	SVS	MS	MT	RMR	MI	MRMS
DBA Spes <sup>db</sup>	RMR	R	MS	MS	VS	MRMS	MTMI	RMR	MI	MRMS
DBA Vittaroi <sup>db</sup>	RMR	MR	MS	MSS	SVS	MS	I	MR	MI	MRMS
DBA-Artemis <sup>db</sup>	RMR	MR	MRMS	MS	VS	MS	MII	MR	MTMI	MRMS
Westcourt <sup>db</sup>	RMR	RMR	MR	MSS	VS	MS	MI	MR	MT	MRMS

Learn more via the [NVT Disease Ratings](#).

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant, (P) = provisional rating, / 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 <sup>#</sup>	End point royalty* (\$)	Comments supplied by variety owner
Combat <sup>Ⓓ</sup>	InterGrain	Feed	3.50	Mid-maturity suited to all regions. Semi-prostrate growth habit that will provide more weed competition than Rosalind <sup>Ⓓ</sup> . A potential variety replacement for Rosalind <sup>Ⓓ</sup> with a more competitive plant type.
Titan AX <sup>Ⓓ</sup>	Australian Grain Technologies	Under malt evaluation	4.55	The world's first CoAXium® barley variety. Mid-season maturity, slightly later than Compass <sup>Ⓓ</sup> , similar to RGT Planet <sup>Ⓓ</sup> . Agronomically similar to Compass <sup>Ⓓ</sup> .
Zena <sup>Ⓓ</sup> CL	InterGrain	Under malt evaluation	4.25	Zena <sup>Ⓓ</sup> CL is an imidazolinone-tolerant barley variety best-suited to medium-high rainfall environments.

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

WHEAT

BARLEY

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Refer to the latest *Crop Sowing Guide* for further information at [grdc.com.au/nvt-crop-sowing-guides](https://grdc.com.au/nvt-crop-sowing-guides)

## 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: Brookstead main season barley.**

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)	2.46	2.40	4.54		
Yeti <sup>db</sup>		126	120	Trial failed	Compromised trial
Laperouse <sup>db</sup>	100	115	113		
Fathom <sup>db</sup>	96	134	104		
Compass <sup>db</sup>	105	120	105		
Beast <sup>db</sup>		120	107		
Leabrook <sup>db</sup>	108	110	105		
La Trobe <sup>db</sup>	85	119	101		
Rosalind <sup>db</sup>	96	98	104		
Commander <sup>db</sup>	115	95	94		
Cyclops <sup>db</sup>			100		
HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE)					
Maximus <sup>db</sup> CL		117	115		
Commodus <sup>db</sup> CL			101		
Spartacus CL <sup>db</sup>	78	118	105		
Sowing date	29 May	14 Jun	11 Jun	1 Jun	17 Jun
Rainfall J–M (mm)	119	109	289	304	429
Rainfall A–O (mm)	210	50	237	252	506

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

**Table 2: Condamine main season barley.**

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			3.28	3.26	5.51
RGT Planet <sup>db</sup>	No trial	Trial failed	104	105	116
Yeti <sup>db</sup>			115	112	98
Bottler <sup>db</sup>			105	99	108
Rosalind <sup>db</sup>			102	103	106
Minotaur <sup>db</sup>				103	105
Laperouse <sup>db</sup>			102	108	100
Combat <sup>db</sup>				107	99
Leabrook <sup>db</sup>			115	102	93
LG Alestar <sup>db</sup>			99	95	105
Beast <sup>db</sup>				117	100
HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE)					
Zena <sup>db</sup> CL				102	117
Maximus <sup>db</sup> CL			93	109	101
Spartacus CL <sup>db</sup>			100	95	96
Titan AX <sup>db</sup>					90
Sowing date		11 Jun	26 May	10 May	31 May
Rainfall J–M (mm)		105	224	302	251
Rainfall A–O (mm)		32	146	284	510

Special thanks to 2022 trial cooperator, Culara Farming.  
Learn more via the [NVT Long Term Yield Reporter](#)

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Table 3: Macalister main season barley.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		1.50	3.82		
Yeti <sup>db</sup>	No trial	108	109	Trial failed	<a href="#">Compromised trial</a>
Compass <sup>db</sup>		110	106		
Beast <sup>db</sup>		109	105		
La Trobe <sup>db</sup>		105	106		
Laperouse <sup>db</sup>		102	107		
Leabrook <sup>db</sup>		107	102		
Rosalind <sup>db</sup>		96	105		
Fathom <sup>db</sup>		116	97		
Bottler <sup>db</sup>		93	106		
Cyclops <sup>db</sup>			100		
HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE)					
Spartacus CL <sup>db</sup>		100	109		
Maximus <sup>db</sup> CL		101	107		
Commodus <sup>db</sup> CL			102		
Sowing date		15 Jun	28 May	27 May	21 Jun
Rainfall J–M (mm)		129	282	277	268
Rainfall A–O (mm)		56	144	282	401

Special thanks to 2022 trial cooperator, Schelberg Ag Pty Ltd.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 4: Mungindi main season barley.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		2.22	3.58	4.45	2.57
Yeti <sup>Ⓛ</sup>	No trial	120	111	107	100
Minotaur <sup>Ⓛ</sup>				109	86
RGT Planet <sup>Ⓛ</sup>		105	104	104	108
Laperouse <sup>Ⓛ</sup>		108	101	105	106
Combat <sup>Ⓛ</sup>				103	97
Beast <sup>Ⓛ</sup>		117	110	99	87
Leabrook <sup>Ⓛ</sup>		109	108	99	94
Cyclops <sup>Ⓛ</sup>			104	104	90
Rosalind <sup>Ⓛ</sup>		104	97	102	107
Bottler <sup>Ⓛ</sup>		104	95	99	107
HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE)					
Maximus <sup>Ⓛ</sup> CL		104	95	107	110
Zena <sup>Ⓛ</sup> CL				102	114
Spartacus CL <sup>Ⓛ</sup>		115	98	101	94
Titan AX <sup>Ⓛ</sup>					93
Sowing date		14 May	14 May	13 May	17 Jun
Rainfall J–M (mm)		80	365	377	206
Rainfall A–O (mm)		42	221	286	510

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

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CHICKPEA

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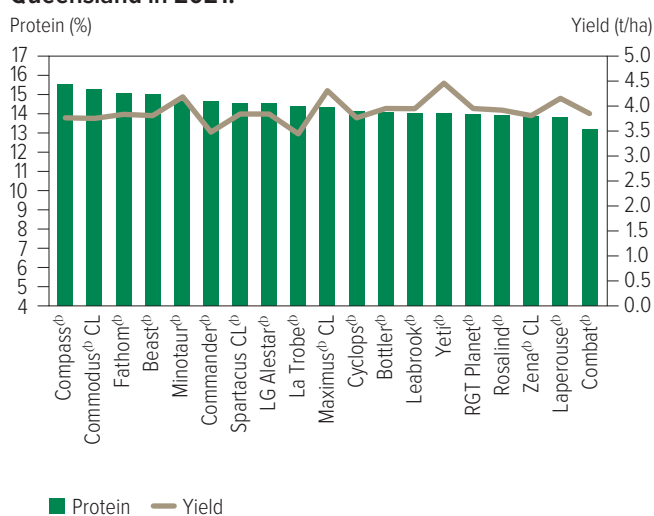
## Barley variety quality – Southern Queensland

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.

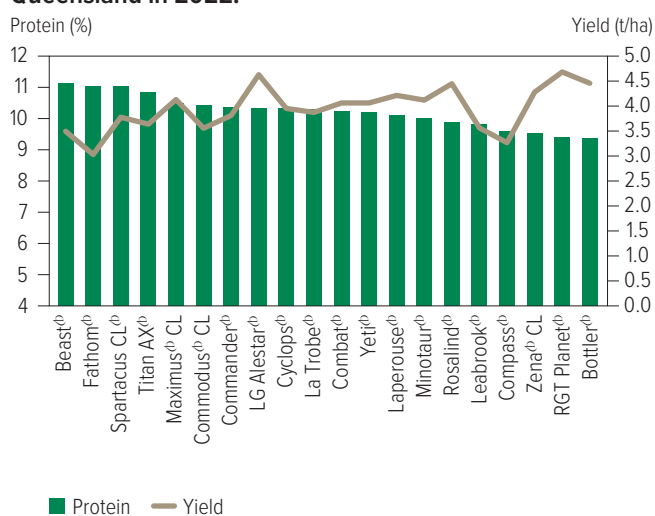
The following figures show the grain quality trends as histograms from 2021 and 2022 NVT averaged for trials in the Southern Queensland region. Only the varieties evaluated at every site are included. These are plotted in order of performance, up to a maximum of 20.

### 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 2021.**

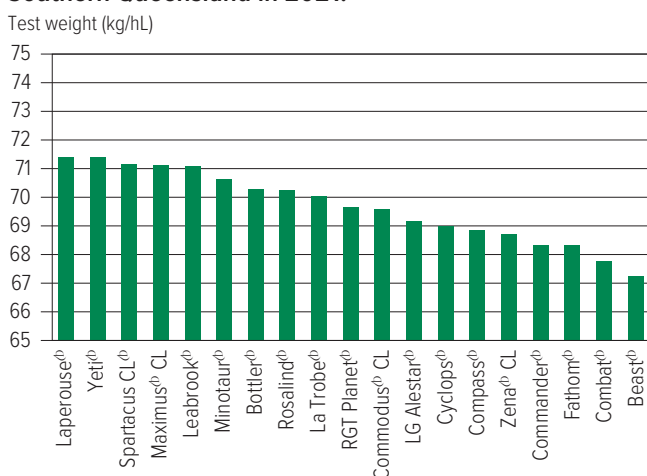


**Figure 2: Protein (%) and yield (t/ha) comparisons for main season barley varieties from two NVT sites in Southern Queensland in 2022.**

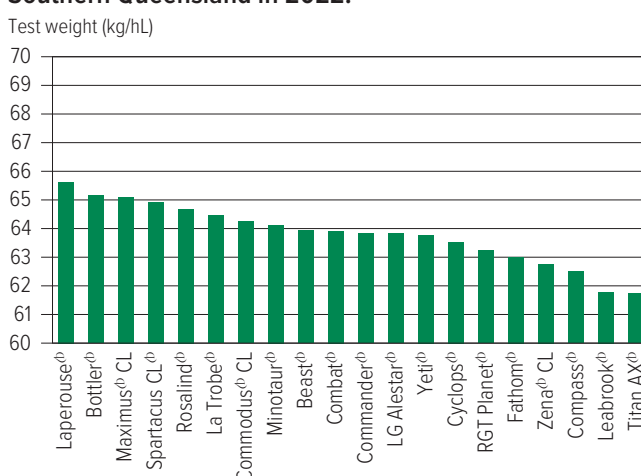


### Test weight comparisons

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



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

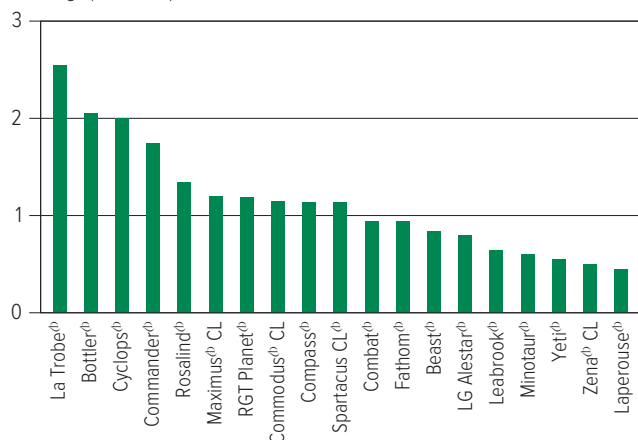




## Screenings comparisons

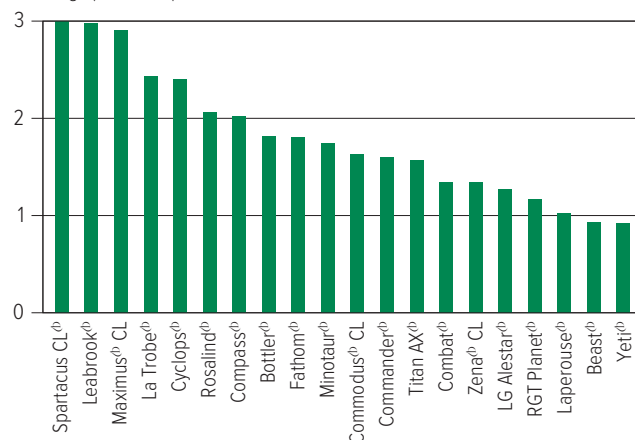
**Figure 5: Screenings (<2.2mm) comparisons for main season barley varieties from two NVT sites in Southern Queensland in 2021.**

Screenings (%<2.2mm)



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

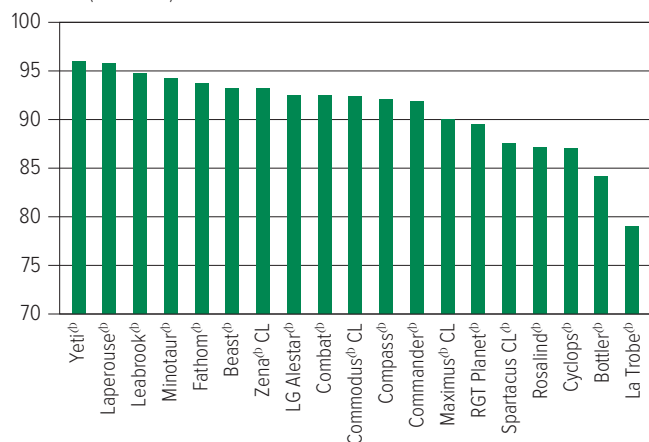
Screenings (%<2.2mm)



## Retention comparisons

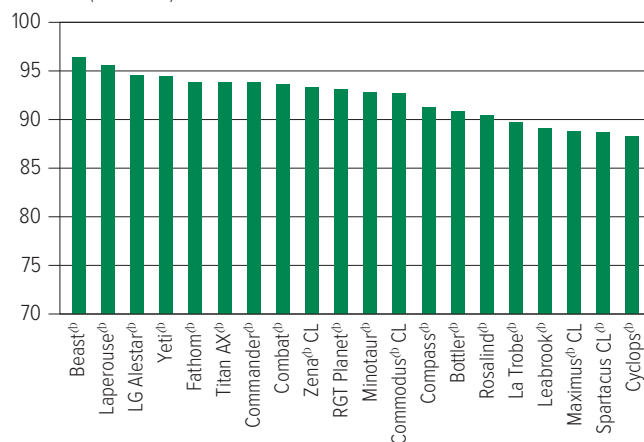
**Figure 7: Retention (>2.5mm) comparisons for main season barley varieties from two NVT sites in Southern Queensland in 2021.**

Retention (%>2.5mm)



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

Retention (%>2.5mm)



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## Barley variety disease ratings – Queensland

The following table contains varietal ratings for the predominant diseases of barley in Queensland. These ratings are updated annually by crop pathologists and were released in March 2023.

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: Barley disease guide for Queensland.

Variety	Black point	Crown rot	Leaf rust	Net form net blotch	Spot form net blotch	Powdery mildew	RLN resistance ( <i>Pratylenchus neglectus</i> )	RLN tolerance ( <i>Pratylenchus neglectus</i> )	RLN resistance ( <i>Pratylenchus thornei</i> )	RLN tolerance ( <i>Pratylenchus thornei</i> )	Ramularia
Beast <sup>Ⓛ</sup>	MSS	S	S	MRMS	MS	S	MRMS	MI	MRMS	T	SVS (P)
Bottler <sup>Ⓛ</sup>	MRMS	SVS	MS	MS	MSS	RMR	MS	MT	RMR	MI	SVS (P)
Combat <sup>Ⓛ</sup>	MSS (P)	S (P)	MS	MRMS	RMR	MS	MR		MS		SVS (P)
Commander <sup>Ⓛ</sup>	MSS	S	SVS	MS-S	MS	MSS	MRMS	MTMI	MRMS	MT	SVS (P)
Commodus <sup>Ⓛ</sup> CL	MS	S (P)	S	MRMS	MRMS	MS	MRMS	TMT	MRMS	MTMI	SVS (P)
Compass <sup>Ⓛ</sup>	MSS	S	VS	MS	MS	MSS	MRMS	TMT	MR	TMT	SVS (P)
Cyclops <sup>Ⓛ</sup>	MS	S (P)	S	MRMS	MRMS	S	MRMS	MI	MRMS	MTMI	SVS (P)
Fathom <sup>Ⓛ</sup>	MSS	SVS	MS	MS	MR	MRMS	MRMS	T	MR	TMT	SVS (P)
La Trobe <sup>Ⓛ</sup>	MSS	S	S	MS	S	MSS	MRMS	MT	MRMS	MT	SVS (P)
Laperouse <sup>Ⓛ</sup>	MSS	S	SVS	MRMS	MR	MSS	MR	MI	MR	MTMI	VS (P)
Leabrook <sup>Ⓛ</sup>	MS	S	SVS	MS	MRMS	S	MRMS	MT	RMR	TMT	VS (P)
LG Alestar <sup>Ⓛ</sup>	MRMS	S	MS	MR-MSS	MSS	MR	MR	I	MR	MTMI	SVS (P)
Maximus <sup>Ⓛ</sup> CL	MSS	S	S	MRMS	MRMS	MS	MRMS	MT	MR	MTMI	VS (P)
Minotaur <sup>Ⓛ</sup>	MS	MS	SVS	MRMS	MSS	S	MRMS	MI	MR	MT	SVS (P)
RGT Planet <sup>Ⓛ</sup>	MRMS	MSS	MS	MRMS-S	S	RMR	MRMS	MT	MR	MI	VS (P)
Rosalind <sup>Ⓛ</sup>	MS	MSS	MRMS	MRMS	MS	MSS	MRMS	MT	MR	TMT	VS (P)
Spartacus CL <sup>Ⓛ</sup>	MSS	S	MSS	MS	S	MSS	MRMS	MII	MRMS	MI	VS (P)
Titan AX <sup>Ⓛ</sup>	MSS (P)	MSS (P)	S	MRMS	MRMS	MS	R		MR		VS (P)
Yeti <sup>Ⓛ</sup>	MSS	S	S	MS	MR	MSS	MR	TMT	MR	TMT	VS (P)
Zena <sup>Ⓛ</sup> CL	MRMS (P)	MSS (P)	MSS	MS	MSS	R	MRMS		MR		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.

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# 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	2018	2019	2020	2021	2022
Mean yield (t/ha)					3.71
PBA Drummond <sup>Ⓛ</sup>	No trial	No trial	Trial failed	Compromised trial	110
PBA Boundary <sup>Ⓛ</sup>					106
CBA Captain <sup>Ⓛ</sup>					106
PBA HatTrick <sup>Ⓛ</sup>					103
PBA Seamer <sup>Ⓛ</sup>					102
Kyabra <sup>Ⓛ</sup>					95
Sowing date			2 Jun	16 Jun	24 Jun
Rainfall J–M (mm)			193	256	418
Rainfall A–O (mm)			153	280	443

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

**Table 2: Brookstead desi chickpea.**

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)			1.39		
PBA Drummond <sup>Ⓛ</sup>	Trial failed	Trial results below standard	107	Trial failed	Trial failed
Kyabra <sup>Ⓛ</sup>			106		
PBA Boundary <sup>Ⓛ</sup>			100		
CBA Captain <sup>Ⓛ</sup>			100		
PBA HatTrick <sup>Ⓛ</sup>			98		
PBA Seamer <sup>Ⓛ</sup>			96		
Sowing date	8 Jun	22 May	4 Jun	31 May	15 Jun
Rainfall J–M (mm)	119	109	289	304	429
Rainfall A–O (mm)	210	50	237	252	506

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

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BARLEY

CHICKPEA

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Refer to the latest *Crop Sowing Guide* for further information at [grdc.com.au/nvt-crop-sowing-guides](http://grdc.com.au/nvt-crop-sowing-guides)

Table 3: Condamine desi chickpea.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		0.81	1.24	1.21	2.71
PBA Drummond <sup>Ⓛ</sup>	Trial results below standard	91	114	128	112
CBA Captain <sup>Ⓛ</sup>		101	105	94	103
Kyabra <sup>Ⓛ</sup>		71	104	107	102
PBA Seamer <sup>Ⓛ</sup>		91	85	108	97
Jimbour		90			
PBA Boundary <sup>Ⓛ</sup>		87	106	67	102
PBA HatTrick <sup>Ⓛ</sup>		85	96	80	98
Sowing date	7 Jun	11 Jun	4 Jun	8 Jun	23 Jun
Rainfall J–M (mm)	155	105	224	302	228
Rainfall A–O (mm)	197	32	146	284	633

Special thanks to 2022 trial cooperator, Culara Farming.  
Learn more via the [NVT Long Term Yield Reporter](#)

Table 4: Mungindi desi chickpea.

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)		0.34		2.53	2.06
PBA Drummond <sup>Ⓛ</sup>	Trial failed	103	Compromised trial	110	98
CBA Captain <sup>Ⓛ</sup>		109		101	105
Jimbour		91			
PBA Boundary <sup>Ⓛ</sup>		102		92	115
PBA HatTrick <sup>Ⓛ</sup>		86		94	106
PBA Seamer <sup>Ⓛ</sup>		73		104	93
Kyabra <sup>Ⓛ</sup>		74		95	100
Sowing date	6 Jun	21 May	3 Jun	12 Jun	11 Jul
Rainfall J–M (mm)	132	80	365	377	206
Rainfall A–O (mm)	141	42	221	286	510

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

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: Chickpea disease guide for Queensland.

Variety	Ascochyta blight (pathogen group 2 – north)	Phytophthora root rot	RLN resistance ( <i>Pratylenchus neglectus</i> )	RLN tolerance ( <i>Pratylenchus neglectus</i> )	RLN resistance ( <i>Pratylenchus thornei</i> )	RLN tolerance ( <i>Pratylenchus thornei</i> )
<b>DESI</b>						
CBA Captain <sup>Ⓛ</sup>	MS	S	MR	MT	MS	MT
Kyabra <sup>Ⓛ</sup>	VS	VS	MRMS	MT	S	MT
PBA Boundary <sup>Ⓛ</sup>	S	VS	RMR	MI	MRMS	MT
PBA Drummond <sup>Ⓛ</sup>	VS	VS	MR	TMT	MRMS	MT
PBA HatTrick <sup>Ⓛ</sup>	S	S	MRMS	MT	MRMS	MTMI
PBA Pistol <sup>Ⓛ</sup>	VS		RMR	T	MS	MII
PBA Seamer <sup>Ⓛ</sup>	MS	S	MRMS	MI	MRMS	MTMI

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 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 faba bean.**

Year	2018	2019	2020	2021	2022
Mean yield (t/ha)				2.20	
PBA Warda <sup>db</sup>	No trial	No trial	Compromised trial	103	Trial failed
FBA Ayla <sup>db</sup>				101	
PBA Nasma <sup>db</sup>				99	
Cairo				99	
PBA Nanu <sup>db</sup>				92	
Doza <sup>db</sup>				91	
Sowing date			17 Apr	27 Apr	27 Apr
Rainfall J–M (mm)			193	256	418
Rainfall A–O (mm)			153	280	443

Special thanks to 2022 trial cooperator – permission to publish was not received.

Learn more via the [NVT Long Term Yield Reporter](https://grdc.com.au/nvt-long-term-yield-reporter)

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CHICKPEA

FABA BEAN

Refer to the latest *Crop Sowing Guide* for further information at [grdc.com.au/nvt-crop-sowing-guides](https://grdc.com.au/nvt-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 2023.

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 ( <i>Pratylenchus thornei</i> )	Leaf rust
Cairo	VS	S	S	MSS	S
Doza <sup>db</sup>	VS	S	S	MSS	MR
FBA Ayla <sup>db</sup>		S	S	MS	MR
PBA Nanu <sup>db</sup>		S	S	MS	MR
PBA Nasma <sup>db</sup>	S	S	S	MSS	MRMS
PBA Warda <sup>db</sup>	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.

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CHICKPEA

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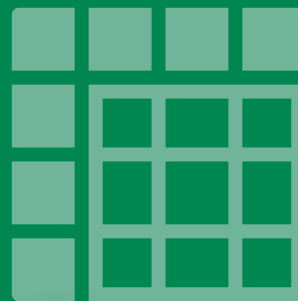
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