Southern Queensland

March 2025

GRDC NATIONAL VARIETY TRIALS™

CELEBRATING 20 YEARS

NVT HARVEST REPORT

INTERIM VERSION

nvt.grdc.com.au

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COVER: Kalyx Australia harvesting at the GRDC National Variety Trials (NVT) site on John and Brendan Pattison's farm near Marrar, New South Wales.
PHOTO: Nicole Baxter

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nvt.grdc.com.au/harvest-reports

LEGEND: MEAN VARIETY YIELD PERFORMANCE

HIGH LOW

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

LEGEND: DISEASE RATING COLOUR RANGE

R	RMR	MR	MRMS	MS	MSS	S	SVS	VS

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

The disease ratings in the report are current at the time of publication.
Regularly visit nvt.grdc.com.au/nvt-disease-ratings to find the latest NVT disease ratings.

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

INTRODUCTION

The NVT Harvest Report – Southern 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 2024 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 Long Term Yield Reporter.

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

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

NVT 20th anniversary

In 2025, the National Variety Trials (NVT) proudly celebrates 20 years of empowering Australian grain growers and their advisers with trusted, independent results to support varietal decision-making.

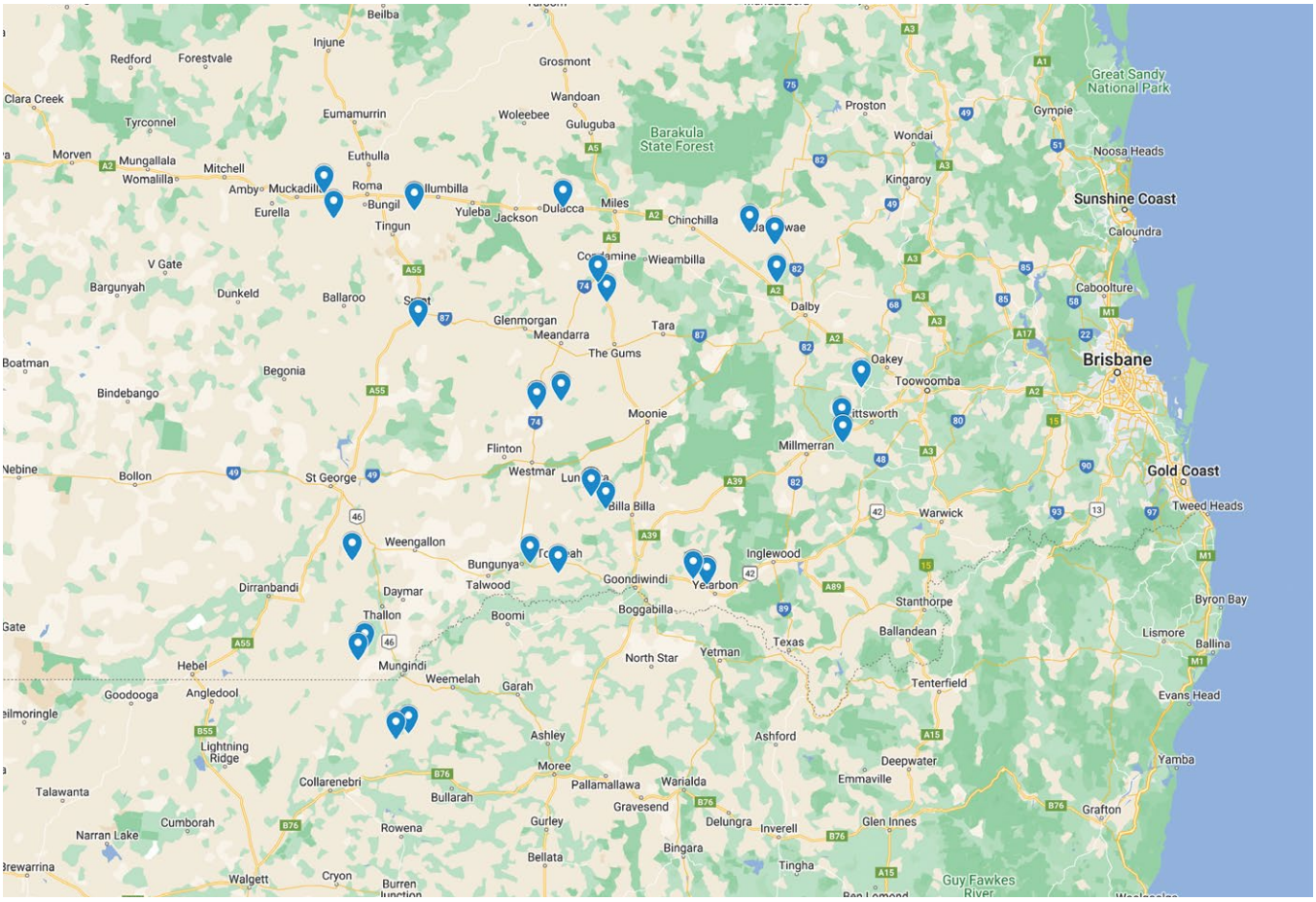
Established in 2005 by the Grains Research and Development Corporation (GRDC), the NVT program has evolved into the largest coordinated variety trial network in the world. Each year, more than 640 trials are conducted across over 300 locations nationwide, encompassing 10 different crop species. Over the past two decades, NVT has been a transformative force, providing growers with credible insights into newly released varieties that drives the rapid adoption of superior genetics.

The success of NVT is a testament to the collaborative efforts of many. GRDC extends heartfelt thanks to the growers, GRDC staff and panellists, service providers, trial hosts, breeding companies and members of the National Advisory Committee who have been instrumental in this journey. Your dedication has delivered exceptional outcomes, advancing the productivity and profitability of Australian grain growers and strengthening the grains industry as a whole.

As we mark this significant milestone, GRDC celebrates the achievements of NVT and looks forward to continuing to deliver game-changing innovations for Australia's grains sector in the years to come.

NVT SITE LOCATIONS – Southern Queensland

Figure 1: Locality of NVT trial sites in Southern Queensland from 2020 to 2024.



SOURCE: National Variety Trials

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

WHEAT

New wheat varieties

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

Variety	Breeding company	Grain classification – northern zone	End point royalty* ($)	Comments supplied by breeding company[1]
Avoca(Φ)	Australian Grain Technologies Pty Ltd	TBC	3.90	Avoca(Φ) is ideally suited to high-rainfall zones. It has a relatively compact plant canopy and good physical grain quality characteristics. **Maturity description:** slow-very slow spring
Intrigue(Φ)	Australian Grain Technologies Pty Ltd	APH	4.00	Intrigue(Φ) achieves high yields relative to other varieties in moisture-stressed situations. It has a good physical grain quality package, with low screenings and high test weights. Intrigue(Φ) maintains yield potential across planting dates. **Maturity description:** mid-slow spring
Ironbark(Φ)	Australian Grain Technologies Pty Ltd	TBC	3.90	Ironbark(Φ) is derived from Beckom(Φ) and is an excellent replacement for Beckom(Φ). It is similar in plant height and canopy to Beckom(Φ) and is very widely adapted, suited to most of southern NSW. It has improved yield and grain size compared with Beckom(Φ). It carries the major aluminium tolerance gene, which contributes to acid soil tolerance. **Maturity description:** mid spring
Jumbuck(Φ)	InterGrain Pty Ltd	AWW	3.60	Jumbuck(Φ) has a good fit in northern growing regions with its yield stability and is well suited to late April and early May plantings. It has a solid grain quality package including excellent test weight and grain size, reducing screening risks. It has a medium plant height and good lodging tolerance. Jumbuck(Φ) was developed by breeders at CIMMYT and was brought to Australia through the CIMMYT-Australia-ICARDA Germplasm Evaluation (CAIGE) program supported by GRDC. **Maturity description:** mid-slow spring
LRPB Optimus(Φ)	LongReach Plant Breeders Pty Ltd	TBC	4.25	LRBP Optimus(Φ) has a similar plant type, yield build and grain receivals package to its LRPB Lancer(Φ) parent. Consistent high trial performance across a range of sowing times in NSW and Queensland, showing optimal yield performance when sown in the first half of May. It has strong acid and sodic soil tolerance. **Maturity description:** mid spring
LRPB Tracer(Φ)	LongReach Plant Breeders Pty Ltd	APH	4.25	LRPB Tracer(Φ) is suitable for main season seeding opportunities across NSW and Queensland. It is a strong performer in sodic soil yield trials. It has a compact canopy that can aid in stubble management in zero-till farming systems. Marketed by Pacific Seeds. **Maturity description:** mid spring
RGT Healy(Φ)	RAGT	TBC	4.25	Variety description not supplied.
Wallaroo(Φ)	Trigall Australia	TBC	4.00	Variety description not supplied.

*EPR amount is ex-GST, (Φ)denotes Plant Breeder's Rights apply. [1]All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder. Consult the Grains Australia Wheat Variety Master List for final classification in your region.

Refer to the latest *Crop Sowing Guide* for further information at nvt.grdc.com.au/resources/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		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	4.38			4.72	
Calibre(Ф)	APH		Compromised trial	Compromised trial	109	Trial failed
Borlaug 100(Ф)	AH	109			106	
Brumby(Ф)	FEED				110	
Jillaroo(Ф)	AH				107	
Rebel Rat		105			105	
Intrigue(Ф)	APH				105	
Sunmaster(Ф)	APH	102			107	
Sunblade CL Plus(Ф)	APH	103			106	
Ironbark(Ф)					103	
Sunprime(Ф)	APH	108			100	
Vixen(Ф)	AH				106	
Rebel 65(Ф)					102	
Suncentral(Ф)	APH	102			104	
SEA Condamine	FEED	105			101	
Boree(Ф)	APH	98			107	
Sowing date		**11 Jun**	**1 Jun**	**17 Jun**	**31 May**	**11 Jun**
Rainfall J–M (mm)		**289**	**304**	**429**	**140**	**219**
Rainfall A–O (mm)		**237**	**252**	**506**	**143**	**253**

Special thanks to 2024 trial cooperator, Yarramalong Farming.
Learn more via the NVT Long Term Yield Reporter

Table 2: Condamine main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	3.03	4.38	5.04	2.49	4.09
Leverage(Ф)	APH				99	112
Jumbuck(Ф)	AWW				100	110
Intrigue(Ф)	APH			123	98	105
Sundancer(Ф)	APH				100	108
Sunmaster(Ф)	APH	100	111	116	97	103
Suncentral(Ф)	APH	99	107	118	96	102
Brumby(Ф)	FEED				100	106
Sunblade CL Plus(Ф)	APH	102	110	110	99	103
LRPB Raider(Ф)	APH	99	102	114	102	106
RGT Healy(Ф)			100	117	97	104
Borlaug 100(Ф)	AH	105	104	108	97	103
Rebel Rat		102	104	109	97	103
Suntop(Ф)	APH	100	103	113	98	100
LRPB Optimus(Ф)						103
Ironbark(Ф)					98	101
Sowing date		**26 May**	**10 May**	**31 May**	**26 May**	**14 May**
Rainfall J–M (mm)		**224**	**302**	**251**	**161**	**222**
Rainfall A–O (mm)		**146**	**284**	**510**	**82**	**223**

Special thanks to 2024 trial cooperator, Culara Farming.
Learn more via the NVT Long Term Yield Reporter

Table 3: Dulacca main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	2.30	3.67		2.44	3.20
Suncentral(Ф)	APH	106	111	Compromised trial	131	127
Sunmaster(Ф)	APH	111	116		119	124
Intrigue(Ф)	APH				122	118
Sunblade CL Plus(Ф)	APH	111	114		112	116
Suntop(Ф)	APH	102	108		117	118
LRPB Mustang(Ф)	APH	103	101		130	112
Ironbark(Ф)					122	102
Sunprime(Ф)	APH	107	102		123	102
Sunchaser(Ф)	APH	98	102		119	111
Borlaug 100(Ф)	AH	118	111		104	96
RGT Healy(Ф)			103		111	114
LRPB Tracer(Ф)	APH				112	109
Brumby(Ф)	FEED				100	98
Jillaroo(Ф)	AH		104		110	97
Rebel Rat		113	110		99	99
Sowing date		**18 Jun**	**11 May**	**2 Jun**	**9 May**	**17 May**
Rainfall J–M (mm)		**454**	**263**	**184**	**82**	**340**
Rainfall A–O (mm)		**120**	**229**	**331**	**98**	**235**

Special thanks to 2024 trial cooperator, Alex Nixon.
Learn more via the NVT Long Term Yield Reporter

Table 4: Lundavra main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class		3.07	4.62	3.75	4.87
Suncentral(Ф)	APH	Trial failed	111	112	109	112
Sunmaster(Ф)	APH		109	114	108	111
Intrigue(Ф)	APH			110	106	108
Sunblade CL Plus(Ф)	APH		109	109	107	108
Borlaug 100(Ф)	AH		110	105	108	103
Suntop(Ф)	APH		104	107	104	107
RGT Healy(Ф)			99	111	102	107
Rebel Rat			105	107	106	103
LRPB Mustang(Ф)	APH		113	97	108	105
Brumby(Ф)	FEED				106	101
Ironbark(Ф)					107	102
Sunchaser(Ф)	APH		102	105	103	106
Leverage(Ф)	APH				99	101
Jumbuck(Ф)	AWW				98	103
Calibre(Ф)	APH		117	96	108	99
Sowing date		**13 May**	**14 May**	**8 May**	**12 May**	**16 May**
Rainfall J–M (mm)		**115**	**209**	**383**	**145**	**144**
Rainfall A–O (mm)		**117**	**175**	**386**	**136**	**212**

Special thanks to 2024 trial cooperator, Benelawin.
Learn more via the NVT Long Term Yield Reporter

Table 5: Macalister main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	3.30			3.03	
Borlaug 100(b)	AH	121	Compromised trial	Compromised trial	106	Trial failed
Rebel Rat		115			106	
Calibre(b)	APH				107	
Suncentral(b)	APH	108			108	
Sunmaster(b)	APH	107			109	
Ironbark(b)					105	
Brumby(b)	FEED				109	
SEA Condamine	FEED	113			101	
Sunprime(b)	APH	112			100	
Sunblade CL Plus(b)	APH	105			107	
Intrigue(b)	APH				109	
LRPB Mustang(b)	APH	109			101	
Jillaroo(b)	AH				103	
Sunchaser(b)	APH	107			101	
RGT Healy(b)					105	
Sowing date		**10 Jun**	**27 May**	**21 Jun**	**11 May**	**11 Jun**
Rainfall J–M (mm)		**282**	**277**	**268**	**112**	**348**
Rainfall A–O (mm)		**144**	**282**	**401**	**74**	**283**

Special thanks to 2024 trial cooperator, Schelberg Ag.
Learn more via the NVT Long Term Yield Reporter

Table 6: Mungindi main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	3.14	5.10		2.79	4.54
Borlaug 100(b)	AH	105	100	Compromised trial	113	113
Calibre(b)	APH		101		107	111
Brumby(b)	FEED				106	111
Rebel Rat		103	100		110	111
Sunmaster(b)	APH	104	101		106	110
Suncentral(b)	APH	106	102		105	108
Sunblade CL Plus(b)	APH	103	101		105	108
Leverage(b)	APH				101	106
Intrigue(b)	APH				105	105
Ironbark(b)					104	104
SEA Condamine	FEED	100	100		109	107
RGT Healy(b)			101		103	106
Jillaroo(b)	AH		100		102	105
Jumbuck(b)	AWW				103	105
Sunprime(b)	APH	106	100		104	100
Sowing date		**14 May**	**13 May**	**16 Jun**	**19 May**	**9 May**
Rainfall J–M (mm)		**365**	**377**	**206**	**155**	**177**
Rainfall A–O (mm)		**221**	**286**	**510**	**49**	**262**

Special thanks to 2024 trial cooperator, Tom Greentree.
Learn more via the NVT Long Term Yield Reporter

Table 7: Nindigully main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	3.04	3.36		2.52	4.18
Borlaug 100(b)	AH	113	106	Trial failed	111	110
Calibre(b)	APH		111		107	104
Sunprime(b)	APH	112	105		102	110
Ironbark(b)					103	108
Rebel Rat		108	104		109	106
LRPB Mustang(b)	APH	111	105		100	108
Suncentral(b)	APH	106	104		105	108
Jillaroo(b)	AH		112		99	103
Sunmaster(b)	APH	105	105		103	106
SEA Condamine	FEED	106	99		109	104
Brumby(b)	FEED				103	102
Sunchaser(b)	APH	106	98		104	107
Sunblade CL Plus(b)	APH	103	105		101	105
Vixen(b)	AH		110		99	97
Intrigue(b)	APH				100	108
Sowing date		**25 May**	**12 May**	**8 May**	**18 May**	**17 May**
Rainfall J–M (mm)		**290**	**291**	**196**	**88**	**128**
Rainfall A–O (mm)		**149**	**159**	**507**	**33**	**175**

Special thanks to 2024 trial cooperator, Malanga.
Learn more via the NVT Long Term Yield Reporter

Table 8: Roma main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class		3.21			2.63
Intrigue(b)	APH	Trial failed		Compromised trial	Trial failed	107
Leverage(b)	APH					103
Jumbuck(b)	AWW					103
Sundancer(b)	APH					101
LRPB Raider(b)	APH		115			97
Sunmaster(b)	APH		106			107
Sunblade CL Plus(b)	APH		106			106
Brumby(b)	FEED					106
Suncentral(b)	APH		106			106
Ironbark(b)						105
Suntop(b)	APH		106			103
LRPB Optimus(b)						101
LRPB Reliant(b)	APH		105			100
RGT Healy(b)			102			103
Rebel Rat			98			107
Sowing date		**27 May**	**12 May**	**2 Jun**	**21 May**	**15 May**
Rainfall J–M (mm)		**404**	**280**	**129**	**72**	**281**
Rainfall A–O (mm)		**135**	**141**	**404**	**98**	**121**

Special thanks to 2024 trial cooperator, Shaun Nolan.
Learn more via the NVT Long Term Yield Reporter

Table 9: Surat main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class					1.48
Leverage(b)	APH					120
LRPB Raider(b)	APH					118
Sundancer(b)	APH					116
Jumbuck(b)	AWW					115
LRPB Flanker(b)	APH					110
Genie(b)	FEED					110
Intrigue(b)	APH					109
LRPB Reliant(b)	APH	No trial	No trial	No trial	No trial	108
Catapult(b)	AH					107
Brumby(b)	FEED					106
LRPB Optimus(b)						105
LRPB Stealth(b)	APH					105
LRPB Lancer(b)	APH					105
Coota(b)	APH					103
Rebel 65(b)						103
Sowing date						**7 May**
Rainfall J–M (mm)						**189**
Rainfall A–O (mm)						**139**

Special thanks to 2024 trial cooperator, Rollinson Farming.
Learn more via the NVT Long Term Yield Reporter

Table 10: Westmar main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	2.03	4.32		2.01	3.13
Leverage(b)	APH				102	121
Intrigue(b)	APH				114	112
Ironbark(b)					116	112
Sundancer(b)	APH				102	114
Brumby(b)	FEED				104	110
Suncentral(b)	APH	99	103	Compromised trial	120	110
Calibre(b)	APH		104		109	109
Jillaroo(b)	AH		104		111	105
LRPB Mustang(b)	APH	95	103		120	104
Sunmaster(b)	APH	103	102		112	105
Sunblade CL Plus(b)	APH	106	102		109	103
LRPB Raider(b)	APH	113	100		94	110
Catapult(b)	AH		103		96	104
Sunprime(b)	APH	98	102		115	102
Jumbuck(b)	AWW				93	107
Sowing date		**25 May**	**14 May**	**1 Jun**	**29 May**	**16 May**
Rainfall J–M (mm)		**307**	**209**	**383**	**67**	**255**
Rainfall A–O (mm)		**139**	**175**	**386**	**112**	**190**

Special thanks to 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 11: Yelarbon main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	3.54	3.98		3.10	4.95
Leverage(b)	APH				110	109
Jumbuck(b)	AWW				111	106
RGT Healy(b)			111		116	113
Sunmaster(b)	APH	99	116		123	105
Suncentral(b)	APH	96	114		121	107
Rebel Rat		103	112		114	107
Borlaug 100(b)	AH	102	112		114	107
Brumby(b)	FEED				110	101
Intrigue(b)	APH				113	101
Sunblade CL Plus(b)	APH	100	112	Compromised trial	116	101
Sundancer(b)	APH				101	102
Calibre(b)	APH		106		107	101
SEA Condamine	FEED	104	104		102	106
LRPB Optimus(b)						101
Sunchaser(b)	APH	93	104		107	105
Sowing date		**13 May**	**21 May**	**18 Jun**	**13 May**	**24 May**
Rainfall J–M (mm)		**236**	**295**	**265**	**197**	**161**
Rainfall A–O (mm)		**199**	**304**	**421**	**159**	**362**

Special thanks to 2024 trial cooperator, Paul McNulty.
Learn more via the NVT Long Term Yield Reporter

Table 12: Brookstead early season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class			4.85		
RGT Zanzibar	FEED			121		
Leverage(b)	APH			117		
Sundancer(b)	APH			112		
LRPB Nighthawk(b)	FEED			111		
Intrigue(b)	APH			107		
LRPB Raider(b)	APH			107		
Severn(b)	FEED			106		
Sunmax(b)	APH	Compromised trial	No trial	103	No trial	Trial failed
Coolah(b)	APH			102		
Sunflex(b)	APH			100		
LRPB Stealth(b)	APH			99		
Coota(b)	APH			98		
Rebel 65(b)				98		
LRPB Lancer(b)	APH			94		
LRPB Flanker(b)	APH			93		
Sowing date		**1 Jun**		**29 Apr**		**22 May**
Rainfall J–M (mm)		**289**		**429**		**219**
Rainfall A–O (mm)		**237**		**506**		**253**

Special thanks to 2024 trial cooperator, Yarramalong Farming.
Learn more via the NVT Long Term Yield Reporter

Table 13: Condamine early season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	3.10	4.64	5.71	3.20	3.53
Jumbuck(b)	AWW				112	124
Intrigue(b)	APH			106	119	113
Leverage(b)	APH			110	111	117
Sundancer(b)	APH			107	113	112
LRPB Raider(b)	APH	116	108	110	107	116
Coolah(b)	APH	110	106	103	106	107
LRPB Optimus(b)						98
LRPB Stealth(b)	APH	110	105	101	107	104
Coota(b)	APH	107	109	99	104	101
Avoca(b)					99	105
Sunflex(b)	APH	102		98	103	99
Sunmax(b)	APH	100	91	111	89	113
LRPB Flanker(b)	APH	110	99	97	109	98
EGA Gregory(b)	APH	110		99	106	100
RockStar(b)	APH		111		105	95
Sowing date		**16 May**	**29 Apr**	**26 Apr**	**5 May**	**30 Apr**
Rainfall J–M (mm)		**224**	**302**	**251**	**161**	**222**
Rainfall A–O (mm)		**146**	**284**	**510**	**82**	**223**

Special thanks to 2024 trial cooperator, Culara Farming.
Learn more via the NVT Long Term Yield Reporter

Table 14: Dulacca early season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class		3.61	5.43	2.16	2.66
Jumbuck(b)	AWW				120	126
Leverage(b)	APH			118	131	120
Intrigue(b)	APH			110	139	123
Sundancer(b)	APH			115	129	119
LRPB Optimus(b)						113
LRPB Raider(b)	APH		117	107	117	114
Coolah(b)	APH		110	101	116	108
LRPB Stealth(b)	APH	Trial failed	108	100	116	107
RockStar(b)	APH		111		128	101
Coota(b)	APH		109	96	122	103
Sunflex(b)	APH			98	116	101
Avoca(b)					101	102
Rebel 65(b)				106	95	108
Brumby(b)	FEED				133	99
LRPB Flanker(b)	APH		101	97	109	106
Sowing date		**16 May**	**29 Apr**	**28 Apr**	**26 Apr**	**17 Apr**
Rainfall J–M (mm)		**454**	**263**	**184**	**82**	**340**
Rainfall A–O (mm)		**120**	**229**	**331**	**98**	**235**

Special thanks to 2024 trial cooperator, Alex Nixon.
Learn more via the NVT Long Term Yield Reporter

Table 15: Lundavra early season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class		3.31	4.45	3.99	4.64
Jumbuck(b)	AWW				109	118
Leverage(b)	APH			109	111	112
Intrigue(b)	APH			106	116	108
Sundancer(b)	APH			107	112	110
LRPB Optimus(b)						106
LRPB Raider(b)	APH		115	106	104	106
Coolah(b)	APH		109	102	105	102
LRPB Stealth(b)	APH	Trial failed	107	101	106	101
Coota(b)	APH		107	100	106	99
RockStar(b)	APH		106		109	98
Sunflex(b)	APH			100	105	100
Avoca(b)					99	102
Rebel 65(b)				99	105	103
Brumby(b)	FEED				112	95
LRPB Flanker(b)	APH		100	98	106	99
Sowing date		**28 Apr**	**26 Apr**	**30 Apr**	**25 Apr**	**25 Apr**
Rainfall J–M (mm)		**115**	**209**	**383**	**145**	**144**
Rainfall A–O (mm)		**117**	**175**	**386**	**136**	**212**

Special thanks to 2024 trial cooperator, Benelawin.
Learn more via the NVT Long Term Yield Reporter

Table 16: Macalister early season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	3.63			4.30	
Intrigue(b)	APH		Compromised trial	No trial	119	Trial failed
Sundancer(b)	APH				115	
Leverage(b)	APH				115	
Jumbuck(b)	AWW				116	
LRPB Raider(b)	APH	111			108	
Brumby(b)	FEED				107	
LRPB Flanker(b)	APH	111			106	
LRPB Stealth(b)	APH	110			106	
Rebel 65(b)					106	
Coolah(b)	APH	108			106	
RockStar(b)	APH				106	
Coota(b)	APH	107			105	
DS Faraday(b)	APH	109			103	
EGA Gregory(b)	APH	109			103	
LRPB Lancer(b)	APH	107			103	
Sowing date		**28 May**	**10 May**		**4 May**	**21 May**
Rainfall J–M (mm)		**282**	**277**		**112**	**348**
Rainfall A–O (mm)		**144**	**282**		**74**	**283**

Special thanks to 2024 trial cooperator, Schelberg Ag.
Learn more via the NVT Long Term Yield Reporter

Table 17: Mungindi early season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	2.82	4.39		3.09	4.71
Leverage(b)	APH			Trial failed	110	111
Jumbuck(b)	AWW				110	112
Sundancer(b)	APH				107	106
Intrigue(b)	APH				107	101
LRPB Raider(b)	APH	126	99		106	103
RockStar(b)	APH		100		104	106
Coota(b)	APH	116	100		104	104
LRPB Optimus(b)						104
Sunflex(b)	APH	110			103	105
Coolah(b)	APH	118	98		103	101
Brumby(b)	FEED				102	103
Avoca(b)					103	104
LRPB Stealth(b)	APH	116	97		102	98
Genie(b)	FEED				100	106
Sunmax(b)	APH	97	103		101	100
Sowing date		**29 Apr**	**27 Apr**	**7 May**	**28 Apr**	**19 Apr**
Rainfall J–M (mm)		**365**	**377**	**206**	**155**	**177**
Rainfall A–O (mm)		**221**	**286**	**510**	**49**	**262**

Special thanks to 2024 trial cooperator, Tom Greentree.
Learn more via the NVT Long Term Yield Reporter

Table 18: Nindigully early season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	3.23	3.86		2.87	4.95
Intrigue(b)	APH			Trial failed	111	109
Jumbuck(b)	AWW				110	114
Leverage(b)	APH				109	113
Sundancer(b)	APH				109	111
LRPB Optimus(b)						112
LRPB Raider(b)	APH	126	109		103	103
Brumby(b)	FEED				106	107
RockStar(b)	APH		112		105	107
Coota(b)	APH	112	109		103	105
Coolah(b)	APH	117	107		103	103
LRPB Stealth(b)	APH	117	106		103	101
Sunflex(b)	APH	105			103	105
LRPB Flanker(b)	APH	116	102		103	97
LRPB Lancer(b)	APH	108	102		102	99
Genie(b)	FEED				104	107
Sowing date		**30 Apr**	**28 Apr**	**27 Apr**	**28 Apr**	**19 Apr**
Rainfall J–M (mm)		**290**	**291**	**196**	**88**	**128**
Rainfall A–O (mm)		**149**	**159**	**507**	**33**	**175**

Special thanks to 2024 trial cooperator, Malanga.
Learn more via the NVT Long Term Yield Reporter

Table 19: Roma early season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class		2.95	4.85		2.59
Jumbuck(b)	AWW	Trial failed			No trial	113
Leverage(b)	APH			112		119
Intrigue(b)	APH			112		118
LRPB Raider(b)	APH		125	116		117
Sundancer(b)	APH			110		113
Sunmax(b)	APH		105	116		107
Coolah(b)	APH		114	106		111
LRPB Stealth(b)	APH		110	104		108
LRPB Nighthawk(b)	FEED		97	116		90
Avoca(b)						104
Coota(b)	APH		109	96		112
EGA Gregory(b)	APH			105		102
LRPB Optimus(b)						103
LRPB Flanker(b)	APH		101	102		98
Sunflex(b)	APH			94		107
Sowing date		**15 May**	**30 Apr**	**28 Apr**		**30 Apr**
Rainfall J–M (mm)		**404**	**280**	**129**		**281**
Rainfall A–O (mm)		**135**	**141**	**404**		**121**

Special thanks to 2024 trial cooperator, Shaun Nolan.
Learn more via the NVT Long Term Yield Reporter

Table 20: Surat early season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class					
		No trial	No trial	No trial	No trial	Compromised trial
Sowing date						**18 Apr**
Rainfall J–M (mm)						**189**
Rainfall A–O (mm)						**139**

Special thanks to 2024 trial cooperator, Rollinson Farming.

Table 21: Westmar early season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	2.11	4.60	3.50	2.09	2.08
Jumbuck(b)	AWW				114	103
Intrigue(b)	APH			108	131	99
Leverage(b)	APH			108	124	104
LRPB Raider(b)	APH	118	106	116	109	103
Sundancer(b)	APH			105	123	101
Coolah(b)	APH	109	104	105	111	101
LRPB Stealth(b)	APH	108	103	103	112	99
Sunmax(b)	APH	118	95	123	75	106
EGA Gregory(b)	APH	112		106	103	96
Coota(b)	APH	102	103	94	117	102
LRPB Flanker(b)	APH	107	102	101	109	95
LRPB Optimus(b)						97
Avoca(b)					100	103
LRPB Lancer(b)	APH	103	101	97	108	97
Sunflex(b)	APH	97		92	114	102
Sowing date		**30 Apr**	**28 Apr**	**26 Apr**	**27 Apr**	**25 Apr**
Rainfall J–M (mm)		**307**	**209**	**383**	**67**	**255**
Rainfall A–O (mm)		**139**	**175**	**386**	**112**	**190**

Special thanks to 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 22: Yelarbon early season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	3.55	4.39	5.09	2.99	5.18
Jumbuck(b)	AWW				122	114
Leverage(b)	APH			114	124	109
Sundancer(b)	APH			111	122	107
Intrigue(b)	APH			104	127	106
LRPB Raider(b)	APH	119	117	103	112	105
LRPB Optimus(b)						102
Coolah(b)	APH	108	109	100	110	102
Avoca(b)					102	102
Coota(b)	APH	99	110	98	112	99
LRPB Stealth(b)	APH	106	104	98	109	101
LRPB Nighthawk(b)	FEED	113	98	109	82	105
Sunflex(b)	APH	96		100	109	99
Sunmax(b)	APH	116	103	97	86	102
RockStar(b)	APH		110		115	97
Wallaroo(b)						102
Sowing date		**29 Apr**	**26 Apr**	**30 Apr**	**26 Apr**	**2 May**
Rainfall J–M (mm)		**236**	**295**	**265**	**197**	**161**
Rainfall A–O (mm)		**199**	**304**	**421**	**159**	**362**

Special thanks to 2024 trial cooperator, Paul McNulty.
Learn more via the NVT Long Term Yield Reporter

Table 23: Lundavra durum wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class		2.68	4.49	3.39	4.69
Patron(b)	ADR		110		111	104
Bitalli(b)	FEED		107	108	107	
DBA Mataroi(b)	ADR		107	106	107	103
Westcourt(b)	ADR		105	105	104	102
DBA-Aurora(b)	ADR	Trial failed	95	102	95	98
DBA Vittaroi(b)	ADR		93	95	91	98
DBA Lillaroi(b)	ADR		98	85	100	97
DBA Bindaroi(b)	ADR		92	94	91	97
Caparoi(b)	ADR		92	93	92	97
Jandaroi(b)	ADR		97	79	100	97
Sowing date		**13 May**	**14 May**	**8 May**	**12 May**	**16 May**
Rainfall J–M (mm)		**115**	**209**	**383**	**145**	**144**
Rainfall A–O (mm)		**117**	**175**	**386**	**136**	**212**

Special thanks to 2024 trial cooperator, Benelawin.
Learn more via the NVT Long Term Yield Reporter

Table 24: Macalister durum wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	4.00		5.14	2.67	
DBA Mataroi(b)	ADR	104	Compromised trial	104	106	Trial failed
Patron(b)	ADR				121	
Bitalli(b)	FEED			103	109	
Westcourt(b)	ADR	103		103	103	
DBA Lillaroi(b)	ADR	106		98	92	
Jandaroi(b)	ADR	109		98	87	
DBA Vittaroi(b)	ADR	99		100	87	
DBA Bindaroi(b)	ADR	98		98	89	
DBA-Aurora(b)	ADR	92		96	101	
Caparoi(b)	ADR	98		97	90	
Sowing date		**10 Jun**	**27 May**	**21 Jun**	**11 May**	**11 Jun**
Rainfall J–M (mm)		**282**	**277**	**268**	**112**	**348**
Rainfall A–O (mm)		**144**	**282**	**401**	**74**	**283**

Special thanks to 2024 trial cooperator, Schelberg Ag.
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 2023 and 2024 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 nine NVT sites in Southern Queensland in 2023.

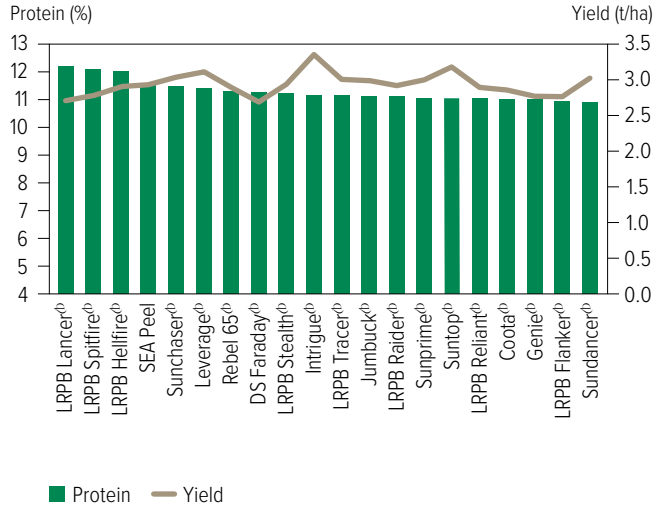


Figure 2: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from nine NVT sites in Southern Queensland in 2024.

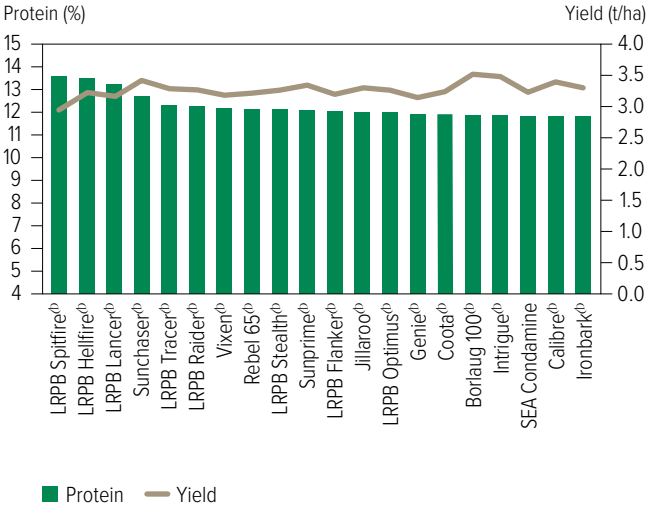


Figure 3: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from eight NVT sites in Southern Queensland in 2023.

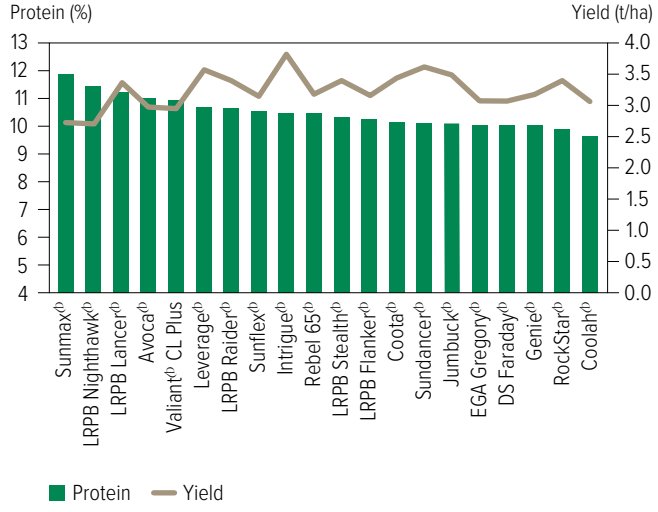


Figure 4: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from eight NVT sites in Southern Queensland in 2024.

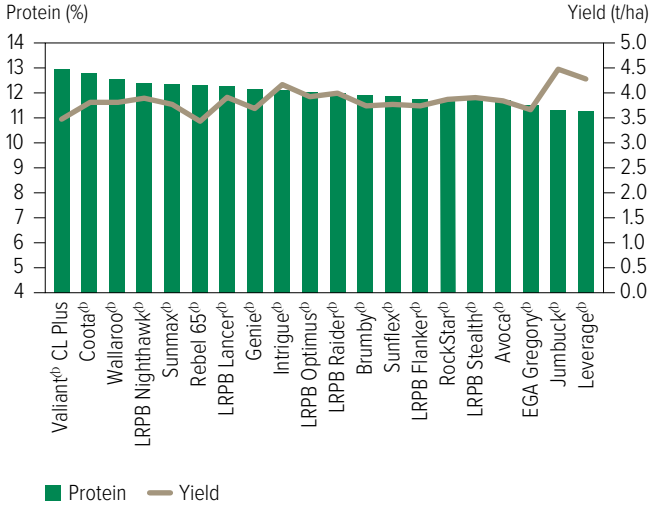


Figure 5: Protein (%) and yield (t/ha) comparisons for durum wheat varieties from two NVT sites in Southern Queensland in 2023.

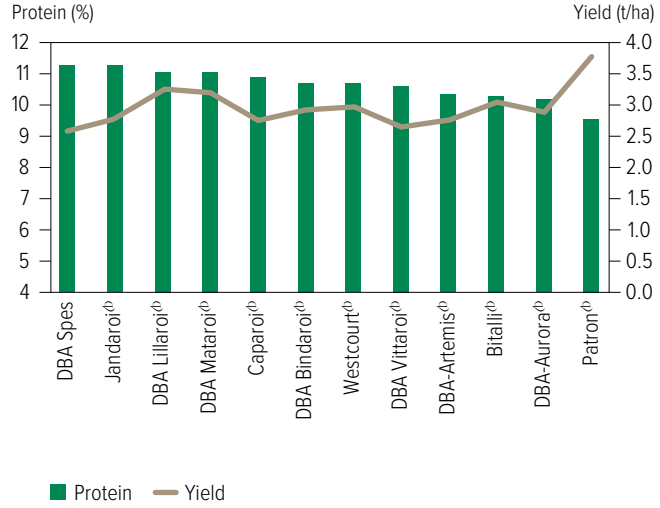
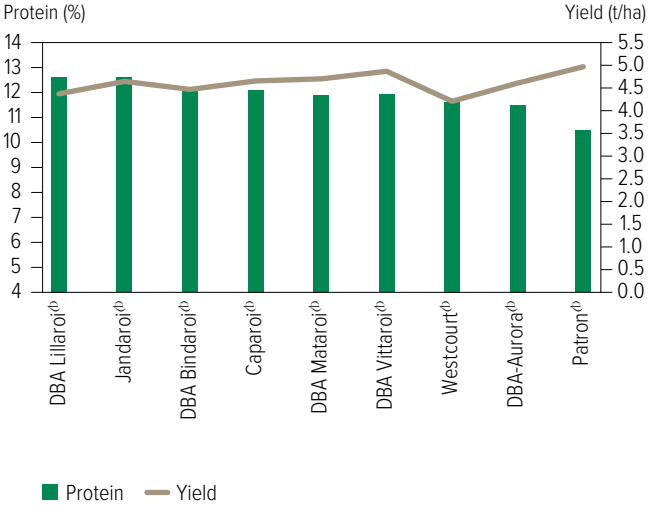


Figure 6: Protein (%) and yield (t/ha) comparisons for durum wheat varieties from one NVT site in Southern Queensland in 2024.



Test weight comparisons

Figure 7: Test weight (kg/hL) comparisons for main season wheat varieties from nine NVT sites in Southern Queensland in 2023.

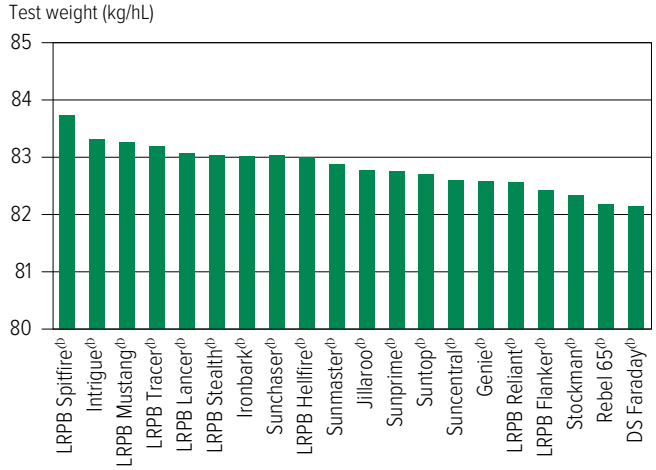


Figure 8: Test weight (kg/hL) comparisons for main season wheat varieties from nine NVT sites in Southern Queensland in 2024.

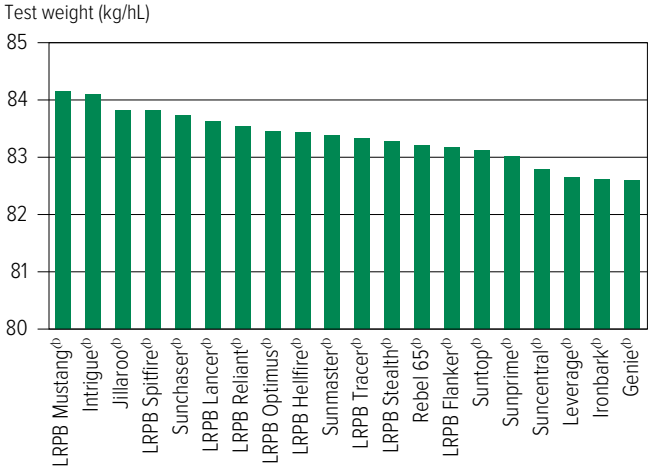


Figure 9: Test weight (kg/hL) comparisons for early season wheat varieties from eight NVT sites in Southern Queensland in 2023.

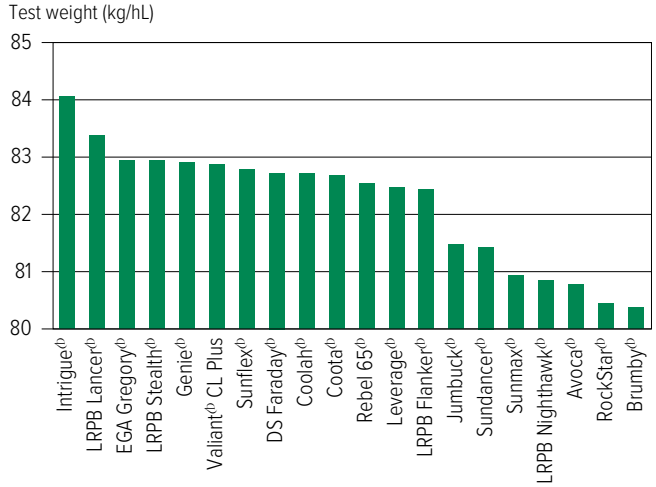


Figure 10: Test weight (kg/hL) comparisons for early season wheat varieties from eight NVT sites in Southern Queensland in 2024.

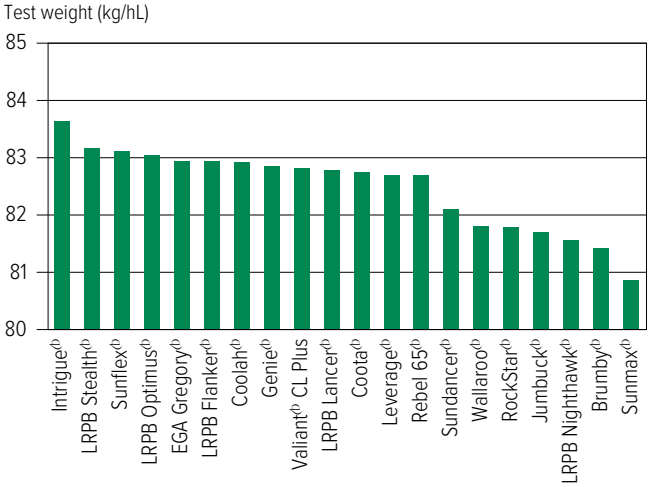


Figure 11: Test weight (kg/hL) comparisons for durum wheat varieties from two NVT sites in Southern Queensland in 2023.

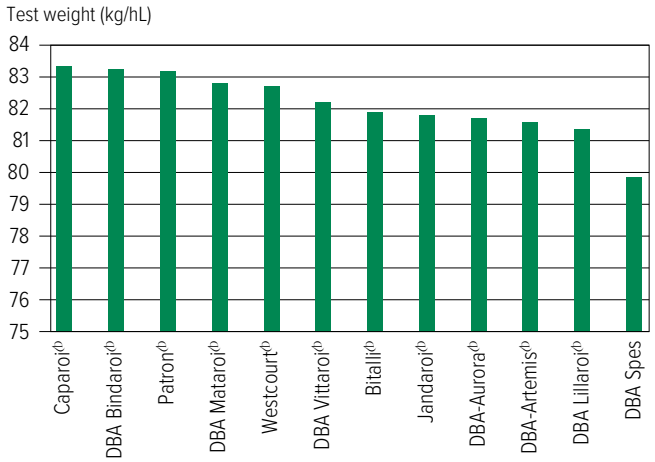
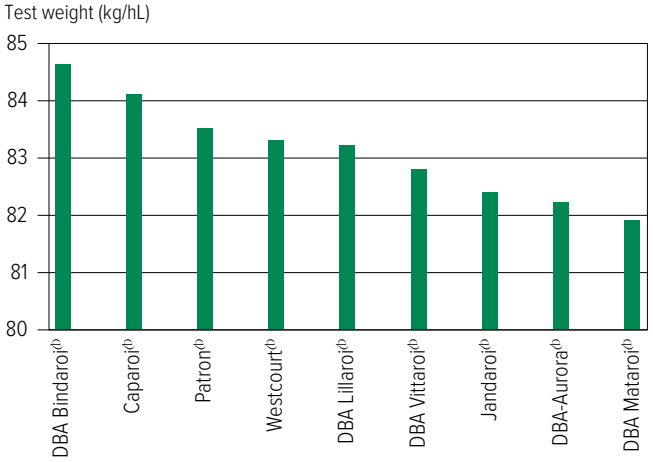


Figure 12: Test weight (kg/hL) comparisons for durum wheat varieties from one NVT site in Southern Queensland in 2024.



Screenings comparisons

Figure 13: Screenings (<2.0mm) comparisons for main season wheat varieties from nine NVT sites in Southern Queensland in 2023.

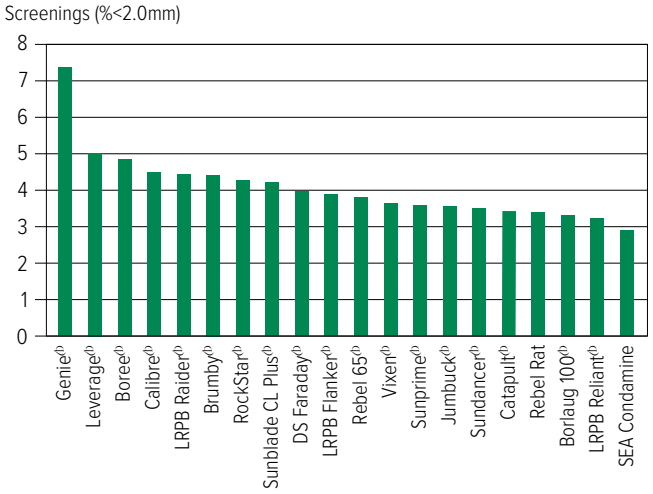


Figure 14: Screenings (<2.0mm) comparisons for main season wheat varieties from nine NVT sites in Southern Queensland in 2024.

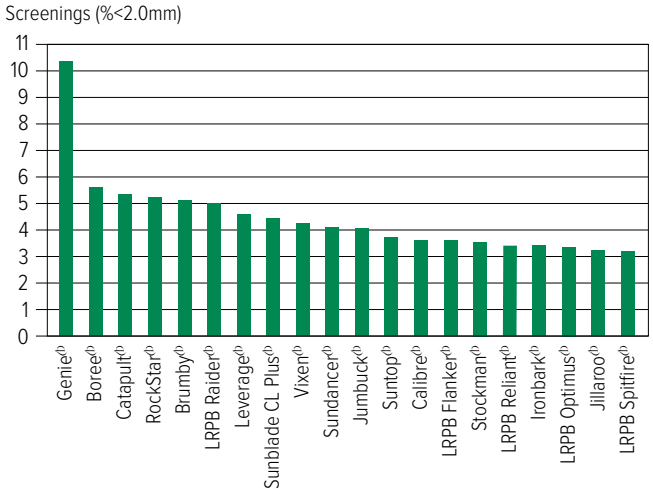


Figure 15: Screenings (<2.0mm) comparisons for early season wheat varieties from eight NVT sites in Southern Queensland in 2023.

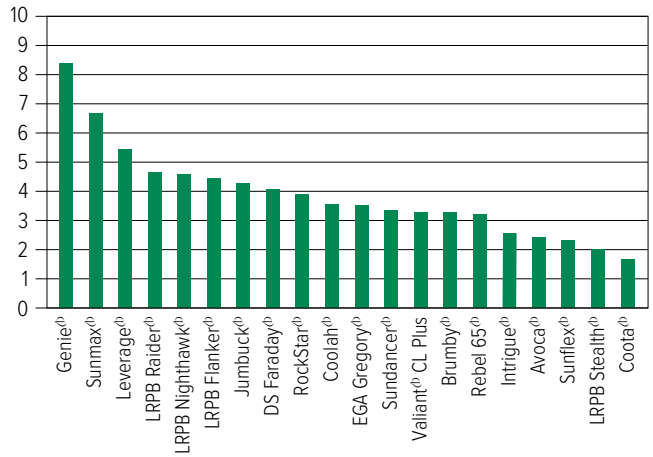


Figure 16: Screenings (<2.0mm) comparisons for early season wheat varieties from eight NVT sites in Southern Queensland in 2024.

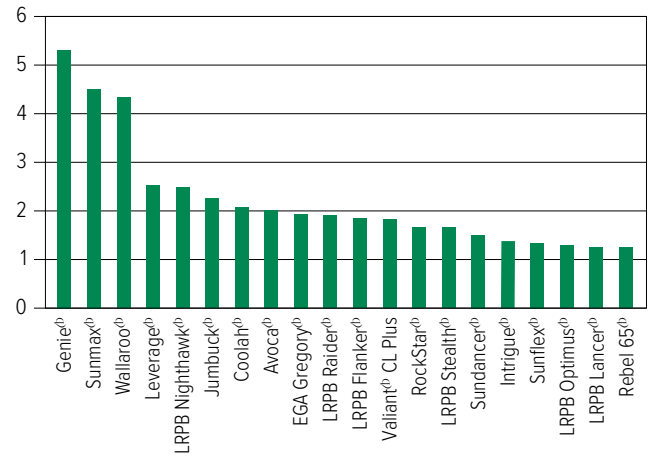


Figure 17: Screenings (<2.0mm) comparisons for durum wheat varieties from two NVT sites in Southern Queensland in 2023.

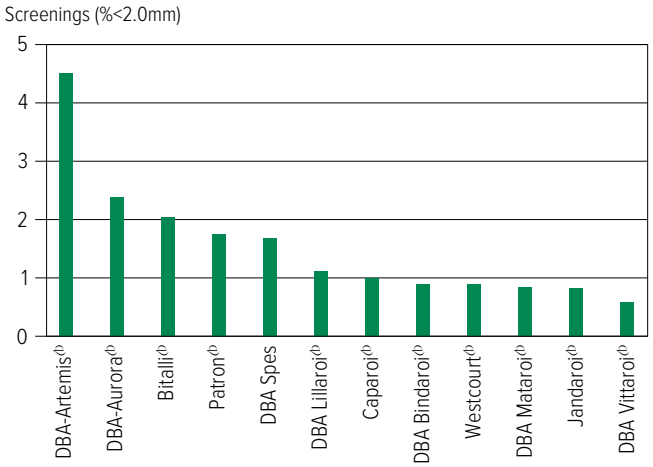
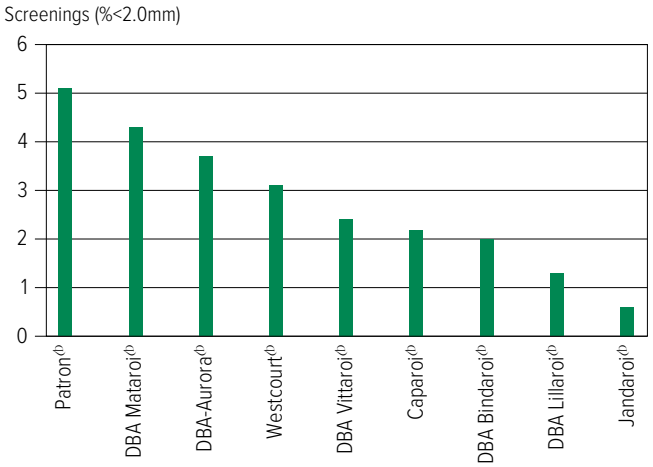


Figure 18: Screenings (<2.0mm) comparisons for durum wheat varieties from one NVT site in Southern Queensland in 2024.



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 2025.

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 25: Wheat disease guide for Queensland.

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
Avoca[Φ]	MSS	MRMS	MRMS		MSS (P)	MS	R (P)	I (P)	MSS	MTMI (P)	MSS
Boree[Φ]	S	MR	SVS		S	VS	S	I	MSS	MII	MRMS
Borlaug 100[Φ]	MR	MR	SVS		MSS		S	T	MS	TMT	MRMS
Brumby[Φ]	SVS	MR	MS		S	MSS	MRMS	TMT	MS	MI	MRMS
Calibre[Φ]	S	MR	S		S	MSS	S	MT	MSS	MII	MRMS
Catapult[Φ]	S	MR	S		MSS	S	S	MII	MS	MT	MRMS
Condo[Φ]	S	MR	MRMS/MS		S	S	S	MT	MS	TMT	MS
Coolah[Φ]	RMR	MR	MSS		MSS	MSS	S	MT	MS	MT	MSS
Coota[Φ]	MR	RMR	S		MSS	S	MR	MI	MS	MTMI	MSS
Denison[Φ]	S	MS	S		MSS	S	S	MII	S	MI	MRMS
EG Titanium[Φ]	MS	MS	MR		MSS	S	MSS	MTMI	MSS	MTMI	MSS
EGA Gregory[Φ]	MR	MR	MS		S	MSS	S	MTMI	MSS	MT	S
Genie[Φ]	S	MRMS	MSS		MS (P)	SVS	MS (P)	IVI (P)	MRMS	IVI (P)	MRMS (P)
Hyperno[Φ]	RMR	RMR	MRMS		SVS	MSS	MS	MTMI	RMR	TMT	MRMS
Intrigue[Φ]	MR	MR	MR		MSS	S	S	MT (P)	MRMS	TMT	MS
Ironbark[Φ]	MRMS	MS	MR		MSS (P)	S	S	IVI (P)	MR (P)	MTMI (P)	MSS
Jillaroo[Φ]	S	MS	S		S	S	S	I	MS (P)	MII	MS
Jumbuck[Φ]	RMR	MRMS	MRMS		MSS (P)	MSS		T (P)	MSS	TMT (P)	MS
Leverage[Φ]	RMR	MR	MRMS		S	SVS	S	TMT (P)	MS	TMT	MRMS
LRPB Avenger[Φ]	SVS	MS	S		S	SVS	MSS	MI	MRMS	MI	MS
LRPB Flanker[Φ]	RMR	MR	MS		MSS	S	S	MT	MSS	MT	MSS
LRPB Hellfire[Φ]	MSS	MR	MRMS		MSS	SVS	MSS	MTMI	MSS	MI	MSS
LRPB Impala[Φ]	SVS	MR	MRMS		MSS	MR	SVS	MTMI	S	MII	MSS
LRPB Lancer[Φ]	RMR	R	RMR		MSS	MR	S	MTMI	MS	TMT	MS
LRPB Mustang[Φ]	MSS	MRMS	MRMS		MSS	MRMS	S	MI	MSS	MTMI	MSS
LRPB Nighthawk[Φ]	MS	RMR	MR		MSS	SVS	MSS	IVI	MS	MI	MS
LRPB Optimus[Φ]	RMR	MR	MRMS		MSS	MSS	MSS	I (P)	MS	MTMI	MSS
LRPB Oryx[Φ]	RMR#	MR	MRMS		MSS	MR	MSS	MII	MSS	IVI	MSS
LRPB Raider[Φ]	RMR	RMR	MR		S	MSS	MSS	MT	MS	TMT	MSS
LRPB Reliant[Φ]	RMR	R	MR		MS	MS	SVS	MTMI	MSS	TMT	S
LRPB Spitfire[Φ]	MS	MR	MRMS		MS	SVS	MSS	MI	MS	MTMI	S
LRPB Stealth[Φ]	RMR	R	RMR		MSS	MRMS	MSS	MTMI	S	MTMI	MS
LRPB Tracer[Φ]	MRMS	MS	MRMS		S (P)	MSS	S	MT (P)	MSS	MT (P)	MSS
Rebel 65[Φ]	MRMS	MSS (RMR)	MSS		S		S	TMT	MRMS	MT	MSS
Rebel Rat	MRMS	MRMS	MSS		MSS	VS	S	T	MSS	MT	MRMS
RGT Healy[Φ]	MR	MRMS	MRMS		S	S	MSS	MT	MR	MT	MSS
RGT Zanzibar	SVS	VS	RMR		S	RMR	S	MI (P)	MS (P)	MI	MS

Continued on next page

Table 25: Wheat disease guide for Queensland (continued).

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
RockStar(Ф)	S	MRMS	S		S	SVS	MRMS	I	MS	MI	MRMS
Scepter(Ф)	MSS	MRMS	S		MSS	SVS	S	MTMI	MSS	MT	MRMS
SEA Condamine	RMR	MRMS	MSS		MSS	MSS	S	MT	MS	MT	MSS
Severn(Ф)	MR	MRMS	MR		S	RMR	S		MRMS		MRMS
Stockman(Ф)	MR	MS	MRMS (P)		S	SVS	MRMS		S	MI	MSS (P)
Sunblade CL Plus(Ф)	MSS	MS	MRMS		S	S	MSS	MI	MRMS	MT	MSS
Suncentral(Ф)	RMR	MRMS	MS		MSS	SVS	MRMS	MI	MRMS	MT	MSS
Sunchaser(Ф)	R	MR	RMR		MSS	SVS	MSS	MTMI	MSS	MT	MS
Sundancer(Ф)	RMR	MR	MR		MSS	S	MSS	MTMI (P)	MS	MTMI	MS
Sunflex(Ф)	RMR	MR	MRMS		MSS	S	S	MI	MSS	MI	MS
Sunmaster(Ф)	RMR	MS	MRMS		MSS	S	MRMS	MTMI	MS	TMT	MSS
Sunmax(Ф)	MS	MRMS	RMR		MSS	S	S	MT	MS	MI	MS
Sunprime(Ф)	MR	MS	MS		S		S	MTMI	S	MTMI	MSS
Suntop(Ф)	MR	MRMS	MRMS		MSS	S	S	MT	MRMS	TMT	MSS
Valiant(Ф) CL Plus	S	MRMS	S		MSS	VS	S	MII	S (P)	VI	MRMS
Vixen(Ф)	SVS	MRMS	SVS		S	SVS	MRMS	I	MS	I	MRMS
Wallaroo(Ф)	RMR	RMR	RMR		MSS	S	MS		MRMS	MI	MRMS
Willaura(Ф)	MRMS	MR	S		S	SVS	MSS	MII	MRMS	MTMI	MS
DURUM											
Bitalli(Ф)	MR	RMR	MRMS		SVS	S	MSS	MI	RMR	MI	MRMS
Caparoi(Ф)	RMR	MR	MRMS		VS	S	MS	MI	MR	MT	MRMS
DBA Bindaroi(Ф)	RMR	MR	MRMS		SVS	S	MRMS	MI	MR	MTMI	MS
DBA Lillaroi(Ф)	RMR	RMR	MRMS		SVS	S	MRMS	MI	RMR	MT	MRMS
DBA Mataroi(Ф)	MR	MRMS	MRMS		SVS	S	MS	MTMI	RMR	MI	MRMS
DBA Vittaroi(Ф)	RMR	MR	MRMS		SVS	MSS	MS	I	MR	MI	MRMS
DBA-Aurora(Ф)	RMR	RMR	MR		SVS	MSS	MRMS	MI	RMR	MT	MRMS
Jandaroi(Ф)	RMR	MRMS (R)	MRMS		VS	S (P)	MS	MII	MRMS	MTMI	MRMS
Patron(Ф)	RMR	RMR	MRMS		SVS	S	MRMS	T	MR	MT	MRMS
Westcourt(Ф)	RMR	RMR	MR		VS	MSS	MS	MI	MR	MTMI	MRMS

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

Wheat variety maturity

The wheat-breeding members of Australian Crop Breeders have developed a consistent approach to the description of wheat variety maturity (relative heading date).

Table 26: An industry guide for wheat variety maturity description.

Maturity description	Abbreviation	Quick wheat boundary	Slow wheat boundary
SPRING WHEAT			
Very quick	VQ		Axe[Φ]
Very quick-quick	VQ-Q	> Axe[Φ]	Vixen[Φ]
Quick	Q	> Vixen[Φ]	Corack[Φ]/LRPB Mustang[Φ]
Quick-mid	Q-M	> Corack[Φ]/LRPB Mustang[Φ]	Mace[Φ]/Suntop[Φ]
Mid	M	> Mace[Φ]/Suntop[Φ]	LRPB Reliant[Φ]/Sheriff CL Plus[Φ]/LRPB Trojan[Φ]
Mid-slow	M-S	> LRPB Reliant[Φ]/Sheriff CL Plus[Φ]/LRPB Trojan[Φ]	Yitpi/EGA Gregory[Φ]
Slow	S	> Yitpi/EGA Gregory[Φ]	Sunzell
Slow-very slow	S-VS	> Sunzell	Sunmax[Φ]
Very slow	VS	> Sunmax[Φ]	
WINTER WHEAT			
Quick	Q		Illabo[Φ]
Mid	M	> Illabo[Φ]	RGT Accroc[Φ]
Slow	S	> RGT Accroc[Φ]	

Source: Australian Crop Breeders Ltd

Wheat optimum time of sowing – an example for Southern Queensland

To achieve flowering in the ideal window and maximise yield, the optimum time of sowing is based on a combination of variety maturity and environment.

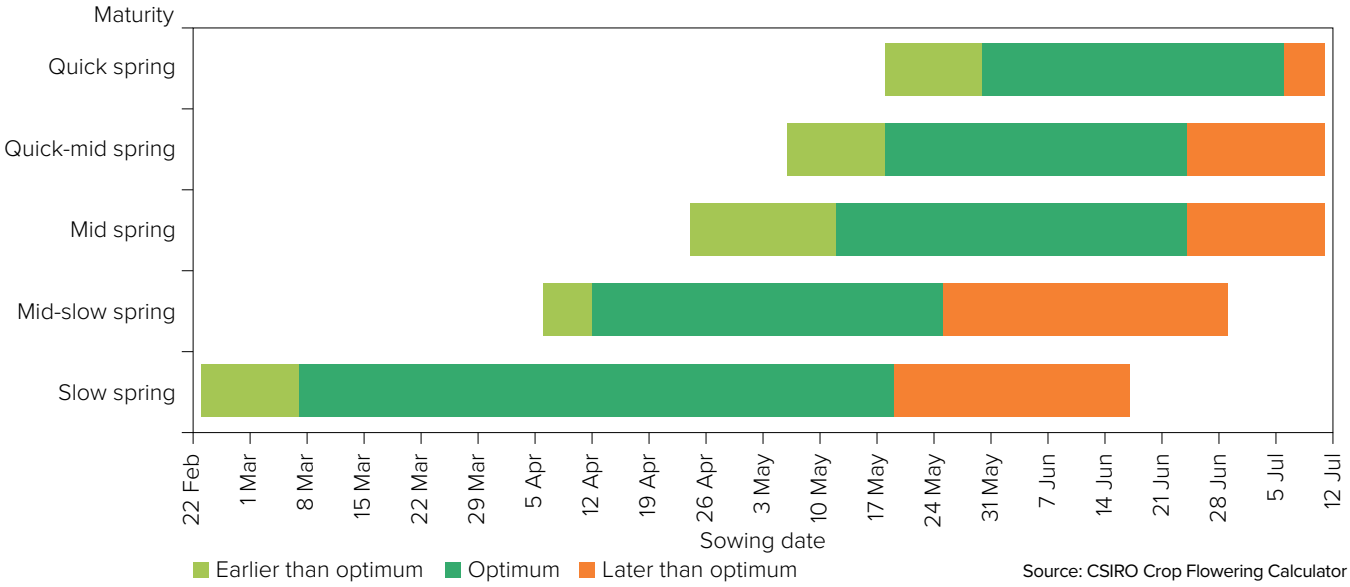
Growers and advisers are encouraged to use the Crop Flowering Calculator to compare the impact of specific variety selection and sowing date for the ideal flowering window at their own location. The Crop Flowering Calculator is a simple phenology (maturity) model that uses 60 years of local weather data to calculate a range of possible flowering dates for a specific environment for wheat, barley and canola.

The Crop Flowering Calculator helps optimise sowing programs by finding the variety or sowing time that best matches the optimal flowering window for a specific location. Select a location and crop type and then either 'Find a Variety' (to match a fixed sowing date), or find 'When to Sow' (to match a fixed variety).

This time of sowing guide (Figure 19) is automatically generated from the database that underpins the Crop Flowering Calculator. The guide presents the optimal sowing windows for generic varieties for a single location.

The Crop Flowering Calculator integrates the scientific outputs from several GRDC projects and Initiatives (CSP00187, CSP1901-002RTX, UOM1806-001RTX and CSP2206-012RTX) and brings together the diverse aspects of crop phenology (genetics, physiology and agronomy). This tool has been supported by CSIRO in partnership with GRDC through CSP2206-012RTX.

Figure 19: Optimum time of sowing by variety maturity for Goondiwindi as an example for Southern Queensland.



Source: CSIRO Crop Flowering Calculator

Disclaimer: This Crop Flowering Calculator is a work in progress and is still undergoing development. The results provided have not yet been fully validated and should be interpreted with caution and used at your own discretion.

BARLEY

New barley varieties

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

Variety	Breeding company	Grain classification	End point royalty* ($)	Comments supplied by breeding company[1]
Bigfoot CL(Φ)	Australian Grain Technologies Pty Ltd	FEED	4.35	Bigfoot CL(Φ) is very similar to popular northern variety Yeti(Φ) but tolerant to Clearfield® Intervix® herbicide. It has good grain size and test weight, having a short stature and lower risk of lodging. It is feed quality only. Bigfoot CL(Φ) has a quick-mid spring maturity.
PegasusAX(Φ)	Australian Grain Technologies Pty Ltd	FEED	4.15	PegasusAX(Φ) carries CoAXium herbicide tolerance (Aggressor® AX herbicide) and is a derivative of Rosalind(Φ), with a similar plant type. It has similar grain size as some other high-yielding feed varieties and is feed quality only. PegasusAX(Φ) has a quick-mid spring maturity.
Spinnaker(Φ)	Secobra Recherches	Under malt evaluation	4.00	Spinnaker(Φ) has (Fathom(Φ) x RGT Planet(Φ)) x European malt breeding line heritage. It is two to three days earlier maturing than RGT Planet(Φ) with a May planting and has slightly shorter plant height than RGT Planet(Φ).

*EPR amount is ex-GST , (Φ)denotes Plant Breeder's Rights apply. [1]All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder. Grain classification downloaded from Grains Australia on 14/3/2025.

Refer to the latest *Crop Sowing Guide* for further information at nvt.grdc.com.au/resources/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	2020	2021	2022	2023	2024
Mean yield (t/ha)	4.63			4.12	
Yeti(ɗ)	116	Trial failed	Compromised trial	104	Trial failed
Maximus(ɗ) CL*	112			103	
Laperouse(ɗ)	108			106	
Neo(ɗ) CL*				106	
Spinnaker(ɗ)				106	
Combat(ɗ)				96	
Minotaur(ɗ)				107	
Rosalind(ɗ)	106			95	
Leabrook(ɗ)	104			97	
RGT Planet(ɗ)	99			102	
Titan AX(ɗ)*				98	
Zena(ɗ) CL*				101	
Cyclops(ɗ)	101			95	
Fathom(ɗ)	102			92	
Spartacus CL(ɗ)*	101			93	
Sowing date	**11 Jun**	**1 Jun**	**17 Jun**	**31 May**	**23 May**
Rainfall J–M (mm)	**289**	**304**	**429**	**140**	**219**
Rainfall A–O (mm)	**237**	**252**	**506**	**143**	**253**

Special thanks to 2024 trial cooperator, Yarramalong Farming.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 2: Condamine main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.34	3.36	5.57	2.67	3.55
Spinnaker(ɗ)			120	96	106
Neo(ɗ) CL*				99	102
PegasusAX(ɗ)*					105
Yeti(ɗ)	106	114	97	106	105
RGT Planet(ɗ)	102	99	115	96	101
Zena(ɗ) CL*		97	115	95	102
Maximus(ɗ) CL*	94	109	102	102	109
Bigfoot CL(ɗ)*					106
Laperouse(ɗ)	95	111	101	103	106
Alestar(ɗ)	95	97	106	98	103
Leabrook(ɗ)	109	101	95	102	98
Rosalind(ɗ)	103	96	102	98	100
Combat(ɗ)		98	96	100	94
Minotaur(ɗ)		104	102	99	100
Titan AX(ɗ)*			87	107	94
Sowing date	**26 May**	**10 May**	**31 May**	**26 May**	**14 May**
Rainfall J–M (mm)	**224**	**302**	**251**	**161**	**222**
Rainfall A–O (mm)	**146**	**284**	**510**	**82**	**223**

Special thanks to 2024 trial cooperator, Culara Farming.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 3: Macalister main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.87			3.04	
Minotaur(ɗ)		Trial failed	Compromised trial	114	Trial failed
Yeti(ɗ)	103			104	
Neo(ɗ) CL*				103	
Laperouse(ɗ)	100			106	
Titan AX(ɗ)*				111	
Spinnaker(ɗ)				95	
Maximus(ɗ) CL*	105			94	
Leabrook(ɗ)	101			98	
Commander(ɗ)	96			104	
RGT Planet(ɗ)	103			95	
Fandaga(ɗ)				95	
Combat(ɗ)				92	
Bottler(ɗ)	98			100	
Fathom(ɗ)	101			95	
Zena(ɗ) CL*				91	
Sowing date	**28 May**	**27 May**	**21 Jun**	**11 May**	**11 Jun**
Rainfall J–M (mm)	**282**	**277**	**268**	**112**	**348**
Rainfall A–O (mm)	**144**	**282**	**401**	**74**	**283**

Special thanks to 2024 trial cooperator, Schelberg Ag.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 4: Mungindi main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.66	4.51	2.57	3.15	
Yeti(ɗ)	110	107	103	112	Compromised trial
Neo(ɗ) CL*				108	
Minotaur(ɗ)		107	88	110	
Laperouse(ɗ)	103	107	104	106	
Combat(ɗ)		100	92	110	
Spinnaker(ɗ)			117	97	
Maximus(ɗ) CL*	94	106	112	100	
Titan AX(ɗ)*			90	111	
Leabrook(ɗ)	104	99	97	104	
RGT Planet(ɗ)	95	99	113	95	
Fathom(ɗ)	110	97	81	105	
Rosalind(ɗ)	96	99	106	96	
Beast(ɗ)	107	95	86	103	
Cyclops(ɗ)	101	101	93	95	
Zena(ɗ) CL*		99	115	91	
Sowing date	**14 May**	**13 May**	**17 Jun**	**19 May**	**9 May**
Rainfall J–M (mm)	**365**	**377**	**206**	**155**	**177**
Rainfall A–O (mm)	**221**	**286**	**510**	**49**	**262**

Special thanks to 2024 trial cooperator, Tom Greentree.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 5: Surat main season barley.					
Year	2020	2021	2022	2023	2024
Mean yield (t/ha)					1.86
Combat(ↀ)	No trial	No trial	No trial	No trial	121
Neo(ↀ) CL*					112
Titan AX(ↀ)*					110
Beast(ↀ)					109
RGT Planet(ↀ)					109
Leabrook(ↀ)					107
Yeti(ↀ)					104
Rosalind(ↀ)					104
Zena(ↀ) CL*					104
Spinnaker(ↀ)					103
Fathom(ↀ)					103
Commodus(ↀ) CL*					102
Bigfoot CL(ↀ)*					101
Minotaur(ↀ)					101
Compass(ↀ)					101
Sowing date					**7 May**
Rainfall J–M (mm)					**189**
Rainfall A–O (mm)					**139**

Special thanks to 2024 trial cooperator, Rollinson Farming.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

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 2023 and 2024 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 four NVT sites in Southern Queensland in 2023.

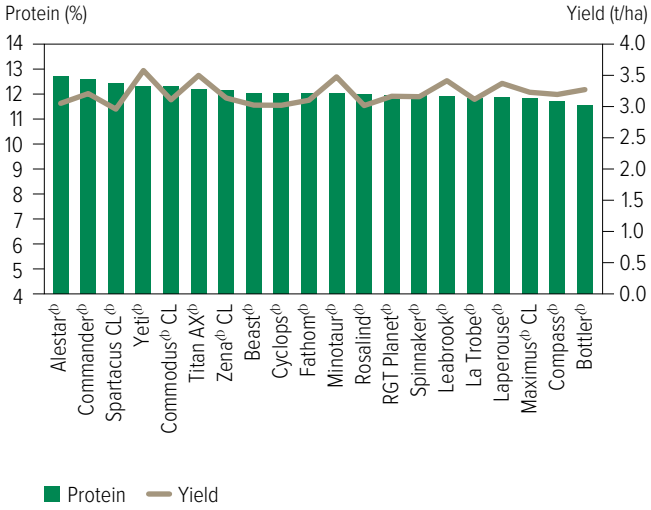
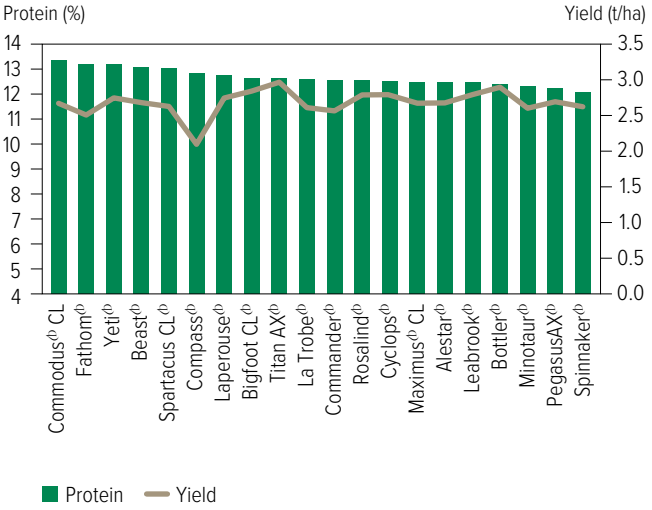


Figure 2: Protein (%) and yield (t/ha) comparisons for main season barley varieties from two NVT sites in Southern Queensland in 2024.



Test weight comparisons

Figure 3: Test weight (kg/hL) comparisons for main season barley varieties from four NVT sites in Southern Queensland in 2023.

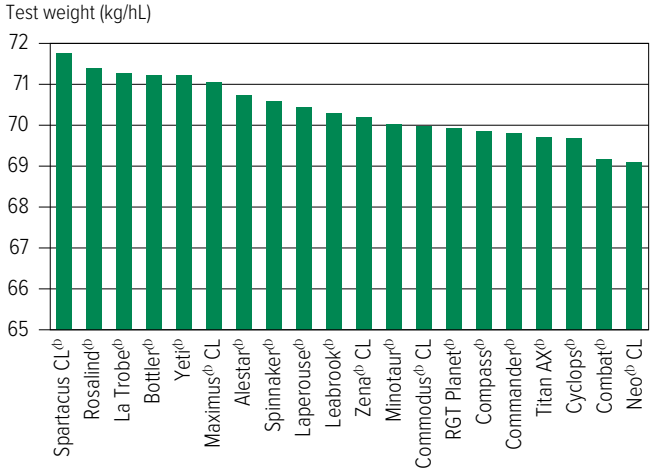
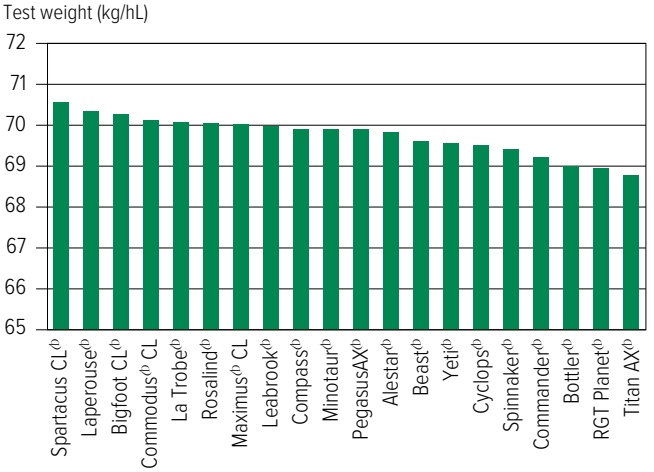


Figure 4: Test weight (kg/hL) comparisons for main season barley varieties from two NVT sites in Southern Queensland in 2024.



Screenings comparisons

Figure 5: Screenings (<2.2mm) comparisons for main season barley varieties from four NVT sites in Southern Queensland in 2023.

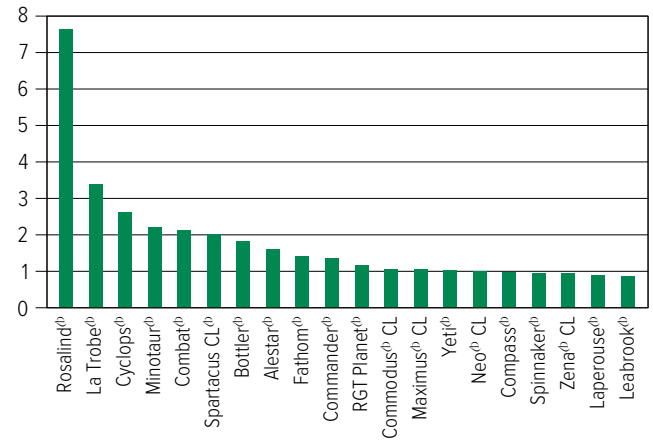
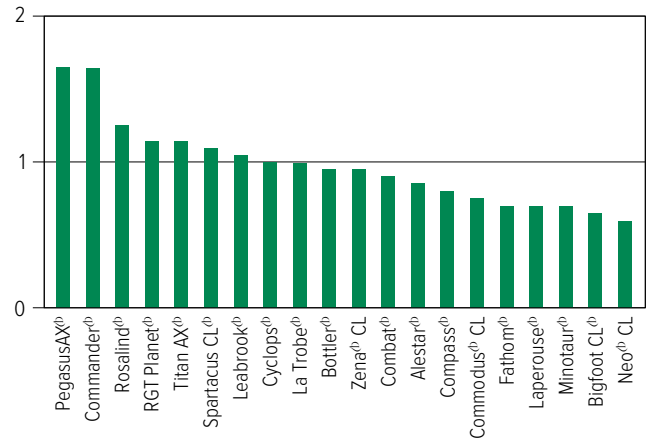


Figure 6: Screenings (<2.2mm) comparisons for main season barley varieties from two NVT sites in Southern Queensland in 2024.



Retention comparisons

Figure 7: Retention (>2.5mm) comparisons for main season barley varieties from four NVT sites in Southern Queensland in 2023.

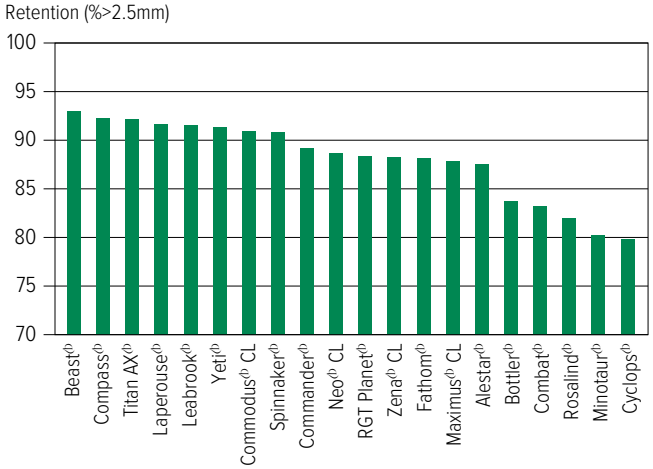
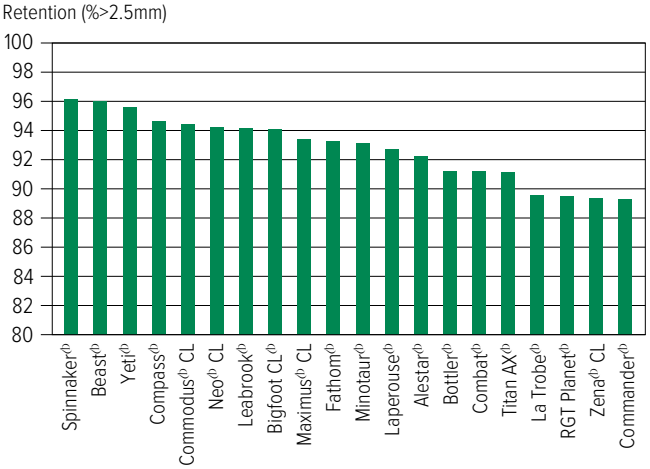


Figure 8: Retention (>2.5mm) comparisons for main season barley varieties from two NVT sites in Southern Queensland in 2024.



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 2025.

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 6: Barley disease guide for Queensland.

Variety	Black point	Crown rot	Leaf rust	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(ф)	MRMS	S	MS	S	S	MRMS	MR	I	MR	MTMI	SVS
Beast(ф)	MSS	S	S	MS	MSS	S	MRMS	MI	MRMS	TMT	SVS
Bigfoot CL(ф)	S (P)	MSS (P)	S	MRMS	MS	S	MR		RMR (P)	TMT	SVS
Bottler(ф)	MRMS	SVS	MS	MRMS	S	RMR	MS	MT	RMR	MI	SVS
Buff(ф)	MS	S	SVS	MRMS	S	S	MRMS	MT	MS	MI	SVS
Combat(ф)	MSS	MSS	MS	MRMS	MR	MSS	MRMS		MS	TMT	SVS
Commander(ф)	MSS	S	S	MS	S	MSS	MRMS	MTMI	MRMS	MT	SVS
Commodus(ф) CL	MS	S	S	MS	MSS	MSS	MRMS	TMT	MRMS	MTMI	SVS
Compass(ф)	MSS	MSS	SVS	MR	MS	S	MRMS	TMT	MR	TMT	SVS
Cyclops(ф)	MSS	MSS	SVS	MRMS	MSS	SVS	MRMS	MI	MRMS	MI	SVS
Fandaga(ф)	MRMS	MS	MS	MS	SVS	R	MR		MR	TMT	SVS
Fathom(ф)	MSS	SVS	MS	MS	MRMS	MRMS	MRMS	T	MR	MT	SVS
Flinders(ф)	MRMS	MSS	MRMS	MS	MSS	MR	MRMS		MR	MTMI	SVS
Granite(ф) CL		SVS (P)	MSS (P)	MR (P)	MR (P)	SVS (P)					SVS (P)
Kiwi	MS	MSS	MS	MRMS	MSS	MS	MRMS	MI	RMR	MTMI	SVS
La Trobe(ф)	MSS	S	S	MS	SVS	S	MRMS	MT	MRMS	MT	SVS
Laperouse(ф)	MSS	S	SVS	MS	MS	MSS	MRMS	MI	MR	MTMI	SVS
Leabrook(ф)	MS	S	SVS	MS	MS	S	MRMS	MT	RMR	TMT	SVS
Litmus(ф)	MS	S	S	MS	S	MSS	MS	MTMI	MRMS	IVI	SVS
Maximus(ф) CL	MSS	S	MSS	MS	MSS	S	MRMS	MT	MRMS	MI	SVS
Minotaur(ф)	MRMS	MSS	SVS	MRMS	S	S	MRMS	MI	MRMS	TMT	SVS
Neo(ф) CL	MRMS (P)	VS (P)	S	MRMS	MRMS	RMR	MR		MRMS	MII	SVS
Newton	MRMS (P)	MSS (P)	MR	MR	MSS	RMR	MRMS		MRMS	T	S
PegasusAX(ф)	MSS (P)	MSS (P)	MRMS	MR	MSS	S	MR		MRMS	IVI	SVS
RGT Atlantis(ф)	MRMS (P)	SVS (P)	MS	S	MSS	R	MR		RMR	MII	SVS
RGT Planet(ф)	MRMS	MSS	MS	S	S	RMR	MRMS	MT	MR	MI	SVS
Rosalind(ф)	MS	S	MRMS	MR	MSS	S	MRMS	MT	MRMS	TMT	SVS
Scope CL(ф)	MS	S	S	MRMS	MSS	MRMS	MRMS	MI	MRMS	MI	SVS
Spartacus CL(ф)	MSS	S	S	MS	S	S	MRMS	MII	MRMS	MI	SVS
Spinnaker(ф)	MRMS	MSS	MSS	S	SVS	RMR	MR		MS	MT	SVS
Titan AX(ф)	MSS	MSS	S	MRMS	MS	MSS	MR		MR	TMT	SVS
Urambie	MRMS	MSS	S	MR	S	MS	MRMS	IVI	MR	I	SVS
Westminster(ф)	MRMS	MSS	MR	MSS	S	RMR	MRMS	IVI	MS	I	SVS
Yeti(ф)	MSS	S	SVS	MS	MRMS	S	MR	TMT	MR	MT	SVS
Zena(ф) CL	MRMS (P)	S	MS	SVS	S	RMR	MRMS		MR	TMT	SVS

Learn more via the NVT Disease Ratings.
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible,
T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant,
(P) = provisional rating, - hyphen indicates a range, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes,
^ line contains a few susceptible off types, ( ) show outlier.

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	2020	2021	2022	2023	2024
Mean yield (t/ha)			3.85	1.48	3.04
CBA Captain(Φ)	Trial failed	Compromised trial	106	97	103
PBA Drummond(Φ)			103	111	98
PBA Boundary(Φ)			104	97	101
PBA HatTrick(Φ)			101	94	101
Kyabra(Φ)			95		96
PBA Seamer(Φ)			93	95	99
Sowing date	**2 Jun**	**16 Jun**	**24 Jun**	**6 Jun**	**6 Jun**
Rainfall J–M (mm)	**193**	**256**	**418**	**145**	**147**
Rainfall A–O (mm)	**153**	**280**	**443**	**136**	**243**

Special thanks to 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 2: Brookstead desi chickpea.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	1.38			2.46	
PBA Drummond(Φ)	106	Trial failed	Trial failed	113	Compromised trial
Kyabra(Φ)	104			100	
CBA Captain(Φ)	98			97	
PBA Seamer(Φ)	97			94	
PBA Boundary(Φ)	99			92	
PBA HatTrick(Φ)	98			90	
Sowing date	**4 Jun**	**31 May**	**15 Jun**	**2 Jun**	**17 Jun**
Rainfall J–M (mm)	**289**	**304**	**429**	**140**	**219**
Rainfall A–O (mm)	**237**	**252**	**506**	**143**	**253**

Special thanks to 2024 trial cooperator, Brazil Farming Pty Ltd.
Learn more via the NVT Long Term Yield Reporter

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

Table 3: Condamine desi chickpea.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	1.26	1.21	2.76		3.11
PBA Drummond(Ф)	112	117	111	Trial results below standard	105
Kyabra(Ф)	105	98	102		95
CBA Captain(Ф)	96	88	99		101
PBA Seamer(Ф)	95	101	93		96
PBA Boundary(Ф)	96	76	98		96
PBA HatTrick(Ф)	93	78	95		95
Sowing date	**4 Jun**	**8 Jun**	**23 Jun**	**19 Jun**	**28 May**
Rainfall J–M (mm)	**224**	**302**	**228**	**161**	**222**
Rainfall A–O (mm)	**146**	**284**	**633**	**82**	**223**

Special thanks to 2024 trial cooperator, Culara Farming.
Learn more via the NVT Long Term Yield Reporter

Table 4: Mungindi desi chickpea.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)		2.59	2.12	1.20	2.38
PBA Drummond(Ф)	Compromised trial	107	95	113	106
CBA Captain(Ф)		99	104	95	102
Kyabra(Ф)		95	98	111	98
PBA Boundary(Ф)		92	106	98	99
PBA HatTrick(Ф)		92	106	95	97
PBA Seamer(Ф)		97	99	95	95
Sowing date	**3 Jun**	**12 Jun**	**11 Jul**	**5 Jun**	**29 May**
Rainfall J–M (mm)	**365**	**377**	**206**	**155**	**177**
Rainfall A–O (mm)	**221**	**286**	**510**	**49**	**262**

Special thanks to 2024 trial cooperator, Tom Greentree.
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 2025.

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)	2022-23 Phytophthora root rot	RLN resistance (*Pratylenchus neglectus*)*	RLN tolerance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)*	RLN tolerance (*Pratylenchus thornei*)
DESI						
CBA Captain(Ф)	MS (P)	S		MT		MT
Genesis® 836	S			MII		MT
Kyabra(Ф)	VS	VS		MT		MT
Neelam(Ф)	S			MI		MTMI
PBA Boundary(Ф)	S	VS		MTMI		MT
PBA Drummond(Ф)	VS	VS		TMT		TMT
PBA HatTrick(Ф)	S	S		MT		MTMI
PBA Maiden	S			MI		MII
PBA Pistol(Ф)	VS			T		MII
PBA Seamer(Ф)	MS	S		MTMI		MTMI
PBA Slasher(Ф)	S			MI		MT
PBA Striker(Ф)	S			MI		TMT
KABULI						
Almaz(Ф)	MS			MI		I
Genesis® 090	MS			IVI		MII
Genesis® Kalkee	S			VI		MI
PBA Magnus(Ф)	MS			MI		IVI
PBA Monarch(Ф)	MS (P)			IVI		I
PBA Royal(Ф)	MS			MII		MI

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

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	2020	2021	2022	2023	2024
Mean yield (t/ha)		2.26			2.60
PBA Warda[Ф]	Compromised trial	98	Trial failed	Compromised trial	105
PBA Nasma[Ф]		99			101
FBA Ayla[Ф]		96			96
PBA Nanu[Ф]		91			99
Cairo		89			89
Doza		84			85
Sowing date	**17 Apr**	**27 Apr**	**27 Apr**	**25 Apr**	**20 Apr**
Rainfall J–M (mm)	**193**	**256**	**418**	**145**	**147**
Rainfall A–O (mm)	**153**	**280**	**443**	**136**	**243**

Special thanks to 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

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

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 2025.

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

TO BE UPDATED

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

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