GRDC
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NVT HARVEST REPORT

GRDC NATIONAL VARIETY TRIALS™

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Northern Region

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TABLE OF CONTENTS

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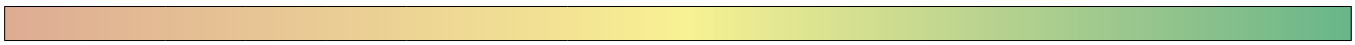
grdc.com.au/harvestreports

INTRODUCTION	4
WHEAT	6
BARLEY	20
OAT	26
CANOLA	29
CHICKPEA	36
FABA BEAN	39
FIELD PEA	41
LENTIL	44
LUPIN	46
USEFUL NVT TOOLS	49

LEGEND: MEAN VARIETY YIELD PERFORMANCE



LOW **HIGH**

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

DISEASE RATING COLOUR RANGE

VS	SVS	S	MSS	MS	MRMS	MR	RMR	R

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

Refer to the latest *NSW Winter Crop Variety Sowing Guide* for further information at
grdc.com.au/new-south-wales-winter-crop-variety-sowing-guide

INTRODUCTION

This *NVT Harvest Report* provides information to support growers and advisers with decisions on variety selection for **Southern New South Wales**. The information has been generated from the Grains Research and Development Corporation's (GRDC) National Variety Trials (NVT) database. This publication provides a summary of the 2020 and long-term yield performance of varieties of crop species suitable for production in **Southern New South Wales** together with their quality and disease responses.

The NVT program provides growers and advisers with comparative data 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 DATA

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 data to better understand a variety's performance over several years at the individual trial/environment level, rather than just a single averaged value.

In this **Southern New South Wales Harvest Report**, results are presented for yield and quality in year groupings for the past five years. Further detailed interrogation of the NVT Online dataset using the NVT Long Term Yield Reporting Tool will provide more specific performance data on all varieties of each crop species in each NVT location throughout **Southern New South Wales**.

The results presented in this Harvest Report are based on the default filters in the NVT Long Term Yield Reporting Tool. 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 Reporting Tool.

DISEASE INFORMATION

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

Refer to the latest *NSW Winter Crop Variety Sowing Guide* for further information at grdc.com.au/new-south-wales-winter-crop-variety-sowing-guide

NVT SITE LOCATIONS – SOUTHERN NEW SOUTH WALES

Figure 1: Location of NVT trial sites in Southern New South Wales from 2016 to 2020.

SOURCE: NVT Online

WE WANT YOUR FEEDBACK

Complete a short online survey to tell us how you use NVT results.

grdc.com.au/harvest-report-feedback

SCAN ME

WHEAT

NEW WHEAT VARIETIES

The following information is for wheat varieties released during the past 12 months.

Variety	Breeding company	End point royalty* ($)	Comments supplied by breeding company
Ascot$^{\Phi}$	Seednet	3.85	Ascot$^{\Phi}$ is a mid-late season variety with excellent yield potential in favourable growing conditions.
Ballista$^{\Phi}$	AGT Seeds	3.50	Ballista$^{\Phi}$ will be most closely compared with Scepter$^{\Phi}$ and newer variety Vixen$^{\Phi}$. Compared with Scepter$^{\Phi}$, Ballista$^{\Phi}$ offers consistently higher yields across a broad range of environments and growing conditions, while carrying very similar disease-resistance attributes.
Coota$^{\Phi}$	AGT Seeds	3.60	Coota$^{\Phi}$ offers growers an earlier sowing, APH quality wheat variety that maintains high yield potential across NSW.
Denison$^{\Phi}$	AGT Seeds	3.40	Denison$^{\Phi}$ is a Mace$^{\Phi}$/Corack$^{\Phi}$ cross. It is a slow to very slow maturity spring wheat, which is very uncommon, but it fits the sowing window of mid April in most parts of WA, SA and Victoria.
Hammer CL Plus$^{\Phi}$	AGT Seeds	4.25	AH quality. Two-gene tolerance to label rates of Intervix® herbicide. Closely related to Mace$^{\Phi}$ with similar maturity and adaptability. Suitable for tight cereal rotations. Not eligible for AGT Seed Sharing™.
LRPB Stealth$^{\Phi}$	Pacific Seeds	4.25	Slow spring-maturing variety similar to LRPB Lancer$^{\Phi}$. The result of a dedicated cross to increase crown rot resistance in widely grown APH germplasm, LRPB Stealth$^{\Phi}$ demonstrated yield stability in tough conditions. Medium plant height with similar growth and yield accumulation pattern as LRPB Lancer$^{\Phi}$.
Sunblade CL Plus$^{\Phi}$	AGT Seeds	3.80 + 0.55 BASF technical fee	APH quality Clearfield® Plus variety derived from Suntop$^{\Phi}$ with similar maturity.
Suncentral$^{\Phi}$	AGT Seeds	3.60	Suncentral$^{\Phi}$ performs well in the northern region, but particularly in Central Queensland where it offers significantly higher yields than other APH quality varieties in the same planting window. Suncentral$^{\Phi}$ is quicker maturing than its parent Suntop$^{\Phi}$, making it an ideal choice for later planting situations throughout all of the northern region.
Sunflex$^{\Phi}$	AGT Seeds	3.60	Sunflex$^{\Phi}$ suits the early planting window in NSW and Queensland, maturing slower than LRPB Lancer$^{\Phi}$. Sunflex$^{\Phi}$ offers competitive yields and an excellent physical grain quality package, with an APH classification in the northern zone and AH classification in the south-eastern zone.
Sunmaster$^{\Phi}$	AGT Seeds	3.60	Sunmaster$^{\Phi}$ out-yields its parent Suntop$^{\Phi}$ by six to nine per cent across NSW and Queensland. Sunmaster$^{\Phi}$ shares many similarities with Suntop$^{\Phi}$, with an APH quality classification, wide adaptation and mid-season maturity. Sunmaster$^{\Phi}$ can be viewed as a Suntop$^{\Phi}$ replacement.
Valiant CL Plus$^{\Phi}$	Intergrain	n/a	Valiant CL Plus$^{\Phi}$ is a high-yielding, Clearfield® Plus, slow season AH wheat. It has a longer maturity than Cutlass$^{\Phi}$, providing a varietal opportunity to maximise early sowing opportunities. Its best performance has been observed in longer growing seasons. Valiant CL Plus$^{\Phi}$ has good grain size, test weight and a moderate plant height, similar to Mace$^{\Phi}$.

n/a not available, * EPR amount is ex-GST, $^{\Phi}$ denotes Plant Breeder's Rights apply.

Refer to the latest ***NSW Winter Crop Variety Sowing Guide*** for further information at grdc.com.au/new-south-wales-winter-crop-variety-sowing-guide

WHEAT VARIETY YIELD PERFORMANCE – SOUTHERN NEW SOUTH WALES

The following tables contain yield results from the top-performing varieties within each NVT location in the region for the past five seasons. Data is 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 performance of varieties not listed within these tables can be found by further interrogation of the NVT website via the links below each table. Error bars, normally used to compare data, can be viewed within the graph option also found via the website links below each table. 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: Balranald main season wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**4.21**	**2.75**		**1.81**	**2.32**
Vixen(Ф)	119	Trial results below standard	Trial failed	109	107
RockStar(Ф)				110	110
Catapult(Ф)				106	107
Beckom(Ф)	111			103	107
Ballista(Ф)				112	108
Scepter(Ф)	107			107	107
Cutlass(Ф)	112			100	102
LRPB Trojan*	110			103	102
LRPB Scout(Ф)	107			104	102
Ascot(Ф)				102	101
CLEARFIELD® PLUS					
Sunblade CL Plus(Ф)				105	107
Sheriff CL Plus(Ф)	103			102	104
Chief CL Plus(Ф)	101			94	101
Sowing date	**1 May**	**3 May**	**10 May**	**7 May**	**12 May**
Rainfall J–M (mm)	**64**	**47**	**21**	**15**	**41**
Rainfall A–O (mm)	**282**	**184**	**64**	**107**	**257**

For more information click this LINK

Table 2: Beckom main season wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**4.76**		**1.07**		**4.34**
Denison(Ф)		Trial failed		Trial failed	111
Vixen(Ф)			125		106
Sunmaster(Ф)					114
Beckom(Ф)	107		107		110
Cutlass(Ф)	108		102		108
Scepter(Ф)	104		115		108
LRPB Beaufort(Ф)	113		95		103
RGT Zanzibar	115				105
Suncentral(Ф)					108
LRPB Trojan(Ф)	107		100		106
CLEARFIELD® PLUS					
Sunblade CL Plus(Ф)					105
Sheriff CL Plus(Ф)					102
Valiant CL Plus(Ф)					105
Sowing date	**16 May**	**15 May**	**7 Jun**	**14 May**	**18 May**
Rainfall J–M (mm)	**80**	**76**	**47**	**76**	**122**
Rainfall A–O (mm)	**609**	**175**	**128**	**128**	**366**

For more information click this LINK

Table 3: Deniliquin main season wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)					**2.32**
Corack(Ф)	No trial	No trial	No trial	No trial	120
Vixen(Ф)					120
Sunmaster(Ф)					114
Beckom(Ф)					114
Scepter(Ф)					113
Sunchaser(Ф)					112
Catapult(Ф)					109
LRPB Mustang(Ф)					109
Sunprime(Ф)					109
Condo(Ф)					108
CLEARFIELD® PLUS					
Chief CL Plus(Ф)					114
Hammer CL Plus(Ф)					111
Sunblade CL Plus(Ф)					107
Sowing date					**13 May**
Rainfall J–M (mm)					**122**
Rainfall A–O (mm)					**308**

For more information click this LINK

Table 4: Galong main season wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**5.62**			**1.01**	**6.11**
Vixen(Ф)		Trial failed	Trial failed	203	114
RockStar(Ф)				154	118
Scepter(Ф)	107			162	114
Beckom(Ф)	108			124	115
Denison(Ф)					110
Ballista(Ф)				170	109
LRPB Beaufort(Ф)					117
Catapult(Ф)				159	104
Sunmaster(Ф)				70	120
Cutlass(Ф)	113			82	108
CLEARFIELD® PLUS					
Sheriff CL Plus(Ф)				143	108
Sunblade CL Plus(Ф)				94	113
Chief CL Plus(Ф)				121	108
Sowing date	**17 May**	**23 May**	**14 May**	**13 May**	**13 May**
Rainfall J–M (mm)	**143**	**107**	**79**	**282**	**107**
Rainfall A–O (mm)	**623**	**262**	**142**	**160**	**569**

For more information click this LINK

Table 5: Gerogery main season wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**7.27**	**5.79**	**3.36**	**2.69**	**6.35**
LRPB Beaufort(Ф)		117	103		119
Vixen(Ф)		110	120	127	112
Denison(Ф)					111
RGT Zanzibar	118	116	102	85	114
RockStar(Ф)				117	112
Sunmaster(Ф)				105	108
Beckom(Ф)	107	110	115	113	108
Scepter(Ф)	104	108	116	121	108
Cutlass(Ф)	110	110	108	102	108
Suncentral(Ф)				103	107
CLEARFIELD® PLUS					
Sunblade CL Plus(Ф)				103	106
Sheriff CL Plus(Ф)				112	103
Chief CL Plus(Ф)				110	100
Sowing date	**19 May**	**17 May**	**15 May**	**20 May**	**19 May**
Rainfall J–M (mm)	**133**	**80**	**79**	**85**	**157**
Rainfall A–O (mm)	**621**	**272**	**173**	**206**	**378**

For more information click this LINK

Table 6: Lockhart main season wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**6.48**			**1.65**	**6.26**
Vixen(Ф)		Trial failed	Trial failed	140	111
LRPB Beaufort(Ф)	117				114
RockStar(Ф)				120	108
Beckom(Ф)	107			117	107
RGT Zanzibar	113				112
Scepter(Ф)	106			128	103
Sunmaster(Ф)				104	107
Suncentral(Ф)				100	108
LRPB Cobra(Ф)	107			96	109
Cutlass(Ф)	108			94	108
CLEARFIELD® PLUS					
Chief CL Plus(Ф)				115	107
Sheriff CL Plus(Ф)				120	102
Razor CL Plus(Ф)				121	94
Sowing date	**23 May**	**15 May**	**16 May**	**20 May**	**14 May**
Rainfall J–M (mm)	**118**	**71**	**85**	**60**	**223**
Rainfall A–O (mm)	**598**	**189**	**149**	**185**	**434**

For more information click this LINK

Table 7: Mayrung main season wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**5.54**	**8.31**	**7.23**	**7.11**	**7.72**
RGT Zanzibar	116	118	100	120	115
Sunmaster(Ф)				122	115
RockStar(Ф)				118	112
LRPB Cobra(Ф)	109	109	102	116	112
Beckom(Ф)	107	107	107	114	110
Vixen(Ф)		103	109	110	109
Coota(Ф)				117	109
Scepter(Ф)	106	104	107	114	108
Suncentral(Ф)				110	109
Denison(Ф)					106
CLEARFIELD® PLUS					
Sunblade CL Plus(Ф)				121	113
Sheriff CL Plus(Ф)				110	106
Chief CL Plus(Ф)				96	103
Sowing date	**18 May**	**12 May**	**21 May**	**22 May**	**25 May**
Rainfall J–M (mm)	**52**	**64**	**28**	**24**	**94**
Rainfall A–O (mm)	**396**	**165**	**127**	**141**	**278**
Irrigation A–O (mm)	**270**	**560**	**480**	**600**	**840**

For more information click this LINK

Table 8: Merriwagga main season wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**4.72**	**1.44**	**2.51**	**1.25**	**4.83**
Vixen(Ф)		115	108	116	115
Scepter(Ф)	99	109	108	115	110
Catapult(Ф)			103	115	105
Denison(Ф)					104
Ballista(Ф)				116	105
RockStar(Ф)				108	107
Beckom(Ф)	104	100	101	103	109
LRPB Beaufort(Ф)	111	106	106		100
Cutlass(Ф)	109	99	100	93	104
Condo(Ф)	99	106	107	96	107
CLEARFIELD® PLUS					
Sheriff CL Plus(Ф)				108	106
Hammer CL Plus(Ф)					101
Chief CL Plus(Ф)				96	109
Sowing date	**19 May**	**3 Jun**	**7 Jun**	**15 May**	**12 May**
Rainfall J–M (mm)	**69**	**26**	**41**	**47**	**170**
Rainfall A–O (mm)	**491**	**167**	**110**	**126**	**239**

For more information click this LINK

Table 9: Oaklands main season wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**5.50**	**4.01**		**2.62**	**4.97**
Vixen(Ф)		116	Trial failed	112	103
Sunmaster(Ф)				107	110
Beckom(Ф)	107	109		108	106
Denison(Ф)					106
Cutlass(Ф)	108	104		100	110
Scepter(Ф)	104	114		111	99
Suncentral(Ф)				102	108
Corack(Ф)	100	114		110	102
LRPB Trojan(Ф)	106	102		103	107
Catapult(Ф)				109	100
CLEARFIELD® PLUS					
Sunblade CL Plus(Ф)				104	106
Sheriff CL Plus(Ф)				106	98
Hammer CL Plus(Ф)					93
Sowing date	**21 May**	**11 May**	**31 May**	**17 May**	**19 May**
Rainfall J–M (mm)	**86**	**70**	**46**	**28**	**197**
Rainfall A–O (mm)	**480**	**240**	**125**	**115**	**365**

For more information click this LINK

Table 10: Temora main season wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**4.21**			**0.69**	**6.13**
Vixen(Ф)		Trial failed	Trial failed	170	115
RockStar(Ф)				139	112
Scepter(Ф)	103			145	111
Sunmaster(Ф)				72	115
Beckom(Ф)	105			114	113
LRPB Beaufort(Ф)					106
Ballista(Ф)				154	106
Suncentral(Ф)				83	109
Denison(Ф)					106
Corack(Ф)	101			117	109
CLEARFIELD® PLUS					
Sunblade CL Plus(Ф)				93	111
Chief CL Plus(Ф)				106	110
Sheriff CL Plus(Ф)				130	107
Sowing date	**18 May**	**15 May**	**15 May**	**20 May**	**14 May**
Rainfall J–M (mm)	**74**	**75**	**83**	**162**	**179**
Rainfall A–O (mm)	**591**	**175**	**151**	**138**	**429**

For more information click this LINK

Table 11: Wagga Wagga main season wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**6.09**			**1.67**	**6.44**
Vixen(Ф)		Trial failed	Trial failed	151	112
RockStar(Ф)				126	110
Scepter(Ф)	102			135	107
LRPB Beaufort(Ф)					112
Beckom(Ф)	105			118	108
Condo(Ф)	108			115	105
Denison(Ф)					106
Ballista(Ф)				133	105
Corack(Ф)	103			127	103
LRPB Oryx(Ф)	105			115	104
CLEARFIELD® PLUS					
Chief CL Plus(Ф)				120	105
Sheriff CL Plus(Ф)				125	104
Sunblade CL Plus(Ф)				103	106
Sowing date	**18 Jun**	**16 May**	**17 May**	**16 May**	**18 May**
Rainfall J–M (mm)	**121**	**79**	**83**	**81**	**123**
Rainfall A–O (mm)	**625**	**223**	**175**	**191**	**408**

For more information click this LINK

Table 12: Beckom early season wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**4.78**			**0.46**	**4.70**
DS Bennett(Ф)	118	Trial failed	Trial failed	84	Trial results below standard
RockStar(Ф)				184	
RGT Zanzibar	116			42	
Catapult(Ф)				150	
Sunflex(Ф)				120	
EG Jet(Ф)				133	
Denison(Ф)				93	
LRPB Stealth(Ф)				153	
DS Pascal(Ф)	101			151	
Scepter(Ф)				107	
CLEARFIELD® PLUS					
Sheriff CL Plus(Ф)				123	
Sowing date	**3 May**	**27 Apr**	**8 May**	**15 Apr**	**27 Apr**
Rainfall J–M (mm)	**80**	**76**	**47**	**76**	**122**
Rainfall A–O (mm)	**609**	**175**	**128**	**128**	**366**

For more information click this LINK

Table 13: Galong early season wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**5.88**			**0.60**	**6.26**
RGT Zanzibar	116	Trial failed	Trial failed	68	132
RGT Accroc	126			11	121
RGT Calabro	119			6	123
LRPB Beaufort(Ф)					117
Illabo(Ф)	99			69	127
EG Jet(Ф)				80	121
RockStar(Ф)				169	113
Longsword(Ф)	96			97	123
Sunflex(Ф)				102	115
LRPB Nighthawk(Ф)				52	119
CLEARFIELD® PLUS					
Valiant CL Plus(Ф)					125
Sheriff CL Plus(Ф)				142	107
Sowing date	**17 May**	**1 May**	**30 Apr**	**29 Apr**	**28 Apr**
Rainfall J–M (mm)	**143**	**107**	**79**	**282**	**107**
Rainfall A–O (mm)	**623**	**262**	**142**	**160**	**569**

For more information click this LINK

Table 14: Gerogery early season wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**7.65**	**6.19**	**3.48**	**3.25**	**6.77**
LRPB Beaufort(Ф)		118			115
RockStar(Ф)				126	112
RGT Zanzibar	116	115	105	102	117
RGT Accroc	124	117	103	79	117
Catapult(Ф)			115	133	102
RGT Calabro	122	113	100	71	116
Denison(Ф)				127	102
Sunflex(Ф)			105	104	109
Coota(Ф)				125	102
Beckom(Ф)	100	105	108	122	103
CLEARFIELD® PLUS					
Valiant CL Plus(Ф)					110
Sheriff CL Plus(Ф)				115	103
Sowing date	**27 Apr**	**5 May**	**5 May**	**1 May**	**27 Apr**
Rainfall J–M (mm)	**133**	**80**	**79**	**85**	**157**
Rainfall A–O (mm)	**621**	**272**	**173**	**206**	**378**

For more information click this LINK

Table 15: Lockhart early season wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**5.44**				**6.04**
RGT Accroc		Trial failed	Trial failed	Trial failed	121
RGT Zanzibar	127				120
LRPB Beaufort(Ф)					118
RGT Calabro					117
RockStar(Ф)					113
Sunflex(Ф)					110
EG Jet(Ф)					109
Illabo(Ф)	107				109
Denison(Ф)					105
Catapult(Ф)					104
CLEARFIELD® PLUS					
Valiant CL Plus(Ф)					110
Sheriff CL Plus(Ф)					103
Sowing date	**27 Apr**	**4 May**	**9 May**	**26 Apr**	**24 Apr**
Rainfall J–M (mm)	**118**	**71**	**85**	**60**	**223**
Rainfall A–O (mm)	**598**	**189**	**149**	**185**	**434**

For more information click this LINK

Table 16: Mayrung early season wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**7.09**	**8.62**	**6.47**	**7.20**	**7.56**
RGT Zanzibar	114	114	102	119	116
LRPB Beaufort(Ф)		110			113
RockStar(Ф)				118	113
RGT Accroc	116	114	82	113	109
Sunflex(Ф)			102	111	109
Illabo(Ф)	106	106	98	108	110
Beckom(Ф)	102	100	115	108	106
RGT Calabro	114	112	79	111	109
Catapult(Ф)			116	109	103
Longsword(Ф)	102	104	107	107	108
CLEARFIELD® PLUS					
Valiant CL Plus(Ф)					111
Sheriff CL Plus(Ф)				107	105
Sowing date	**8 May**	**5 May**	**17 May**	**8 May**	**8 May**
Rainfall J–M (mm)	**52**	**64**	**28**	**24**	**94**
Rainfall A–O (mm)	**396**	**165**	**127**	**141**	**278**
Irrigation A–O (mm)	**70**	**210**	**240**	**300**	**210**

For more information click this LINK

Table 17: Merriwagga early season wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**6.50**	**1.97**		**1.80**	**5.00**
RockStar(b)			No trial	149	113
Catapult(b)				140	116
Denison(b)				114	115
Coota(b)				129	114
LRPB Beaufort(b)		99			108
Beckom(b)	98	119		126	113
LRPB Trojan(b)	98	118		132	110
RGT Zanzibar	116	88		80	107
Cutlass(b)	104	108		85	112
LRPB Stealth(b)				127	102
CLEARFIELD® PLUS					
Sheriff CL Plus(b)				118	109
Valiant CL Plus(b)					105
Sowing date	**5 May**	**29 Apr**		**29 Apr**	**28 Apr**
Rainfall J–M (mm)	**69**	**26**		**47**	**170**
Rainfall A–O (mm)	**491**	**167**		**126**	**239**

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Table 18: Oaklands early season wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**5.41**	**4.18**		**2.87**	**5.67**
Catapult(b)			Trial failed	124	105
RockStar(b)				120	106
Denison(b)				116	109
Coota(b)				118	104
LRPB Beaufort(b)		104			112
Beckom(b)	110	115		116	103
LRPB Trojan(b)	109	115		116	102
Cutlass(b)	104	110		106	108
RGT Zanzibar	116	90		94	116
Sunflex(b)				102	105
CLEARFIELD® PLUS					
Sheriff CL Plus(b)				111	103
Valiant CL Plus(b)					106
Sowing date	**6 May**	**5 May**	**9 May**	**7 May**	**23 Apr**
Rainfall J–M (mm)	**86**	**70**	**46**	**28**	**197**
Rainfall A–O (mm)	**480**	**240**	**125**	**115**	**365**

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Table 19: Temora early season wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**5.10**			**0.43**	**5.71**
RGT Accroc	115	Trial failed	Trial failed	27	136
RGT Calabro	112			41	134
RGT Zanzibar	117			61	128
LRPB Beaufort(b)					122
RockStar(b)				161	110
Sunflex(b)				106	114
EG Jet(b)				100	116
Illabo(b)	107			87	116
LRPB Nighthawk*				66	112
DS Pascal(b)	103			116	108
CLEARFIELD® PLUS					
Valiant CL Plus(b)					113
Sheriff CL Plus(b)				133	100
Sowing date	**4 May**	**2 May**	**29 Apr**	**1 May**	**22 Apr**
Rainfall J–M (mm)	**74**	**75**	**83**	**162**	**179**
Rainfall A–O (mm)	**591**	**175**	**151**	**138**	**429**

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Table 20: Wagga Wagga early season wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**5.11**				**6.79**
RGT Zanzibar	114	Trial failed	Trial failed	Trial failed	115
LRPB Beaufort(b)					113
RGT Accroc	111				109
RockStar(b)					110
Denison(b)					109
Catapult(b)					107
Cutlass(b)	106				107
Sunflex(b)					106
Coota(b)					106
Beckom(b)	104				106
CLEARFIELD® PLUS					
Valiant CL Plus(b)					107
Sheriff CL Plus(b)					104
Sowing date	**3 May**	**5 May**	**7 May**	**18 Apr**	**28 Apr**
Rainfall J–M (mm)	**121**	**79**	**83**	**81**	**123**
Rainfall A–O (mm)	**625**	**223**	**175**	**191**	**408**

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Table 21: Yenda early season wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**4.64**		**6.87**	**7.75**	**6.44**
LRPB Beaufort(Ф)		Trial failed			115
RockStar(Ф)				113	111
RGT Zanzibar	115		103	115	116
RGT Accroc	115		101	115	113
RGT Calabro	114		100	115	108
Sunflex(Ф)			103	109	107
EG Jet(Ф)			101	110	104
Catapult(Ф)			106	103	107
Denison(Ф)				102	109
Beckom(Ф)	107		104	104	105
CLEARFIELD® PLUS					
Valiant CL Plus(Ф)					107
Sheriff CL Plus(Ф)				104	103
Sowing date	**17 May**	**18 May**	**25 May**	**14 May**	**15 May**
Rainfall J–M (mm)	**89**	**84**	**5**	**54**	**141**
Rainfall A–O (mm)	**534**	**164**	**102**	**184**	**323**
Irrigation A–O (mm)	**0**	**0**	**720**	**1200**	**411**

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Table 22: Culcairn long season wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)				**3.19**	**5.88**
RGT Zanzibar	Trial failed	Trial failed	Trial failed	140	112
LRPB Beaufort(Ф)				130	112
Illabo(Ф)				111	106
RGT Accroc				103	109
Denison(Ф)					106
LRPB Nighthawk(Ф)				108	103
Anapurna				101	106
DS Bennett(Ф)				110	97
Longsword(Ф)				95	104
EGA Wedgetail(Ф)				104	99
Sowing date	**4 May**	**19 Apr**	**3 May**	**18 Apr**	**20 Apr**
Rainfall J–M (mm)	**156**	**80**	**79**	**85**	**157**
Rainfall A–O (mm)	**539**	**272**	**173**	**206**	**378**

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Table 23: Galong long season wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**6.28**				**5.54**
RGT Accroc	122	Trial failed	Trial failed	Trial failed	120
Anapurna					119
RGT Calabro	107				129
LRPB Beaufort(Ф)					130
RGT Zanzibar	108				120
Manning(Ф)	102				126
Einstein	97				121
DS Bennett(Ф)	112				95
Illabo(Ф)	94				106
Naparoo(Ф)	106				89
Sowing date	**3 May**	**12 Apr**	**30 Apr**	**3 Apr**	**14 Apr**
Rainfall J–M (mm)	**143**	**107**	**79**	**282**	**107**
Rainfall A–O (mm)	**623**	**262**	**142**	**160**	**569**

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Table 24: Lockhart durum wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**5.03**			**0.88**	**5.44**
DBA-Aurora(Ф)	113	Trial failed	Trial failed	114	107
DBA Spes(Ф)	115				107
Hyperno(Ф)	100				101
Westcourt(Ф)				110	100
DBA Vittaroi(Ф)	99			105	99
Bitalli(Ф)				119	98
DBA Bindaroi(Ф)	95			97	98
EGA Bellaroi(Ф)	97			63	96
DBA Lillaroi(Ф)	87			82	93
Caparoi(Ф)	87			71	94
Sowing date	**23 May**	**15 May**	**16 May**	**20 May**	**14 May**
Rainfall J–M (mm)	**118**	**71**	**85**	**60**	**223**
Rainfall A–O (mm)	**598**	**189**	**149**	**185**	**434**

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Table 25: Mayrung durum wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)					**7.24**
Bitalli(b)	No trial	No trial	No trial	No trial	103
DBA Vittaroi(b)					102
DBA-Aurora(b)					102
DBA Spes(b)					99
Westcourt(b)					99
Hyperno(b)					98
EGA Bellaroi(b)					98
DBA Bindaroi(b)					98
Jandaroi(b)					97
DBA Lillaroi(b)					96
Sowing date					**25 May**
Rainfall J–M (mm)					**94**
Rainfall A–O (mm)					**278**

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Table 26: Merriwagga durum wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**5.87**	**1.04**	**1.55**	**0.73**	**3.62**
DBA-Aurora(b)	105	Trials results below standard	114	114	104
DBA Spes(b)	103				96
Westcourt*			102	105	102
Bitalli(b)				102	104
Hyperno(b)	100				101
DBA Vittaroi(b)	100		98	99	101
DBA Bindaroi(b)	98		96	97	99
DBA Lillaroi(b)	94		87	86	94
EGA Bellaroi(b)	95		89	82	91
Jandaroi(b)	94		84	83	94
Sowing date	**19 May**	**2 Jun**	**7 Jun**	**15 May**	**12 May**
Rainfall J–M (mm)	**69**	**26**	**41**	**47**	**170**
Rainfall A–O (mm)	**491**	**167**	**110**	**126**	**239**

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Table 27: Yenda durum wheat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**4.36**		**6.80**	**8.56**	**5.56**
DBA-Aurora(b)	109	Trial failed	104	106	110
DBA Spes(b)	114				108
Hyperno(b)	94				104
Westcourt(b)			104	101	102
DBA Vittaroi(b)	103		97	99	97
Bitalli(b)				100	97
DBA Bindaroi(b)	93		101	99	98
EGA Bellaroi(b)	104		94	95	93
Caparoi(b)	79		104	95	95
DBA Lillaroi(b)	88		98	95	92
Sowing date	**17 May**	**26 May**	**25 May**	**23 May**	**26 May**
Rainfall J–M (mm)	**89**	**84**	**5**	**54**	**141**
Rainfall A–O (mm)	**534**	**164**	**102**	**184**	**323**

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WHEAT VARIETY QUALITY – SOUTHERN NEW SOUTH WALES

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

The following figures show the grain quality trends as histograms from 2019 and 2020 NVT averaged for trials in the Southern New South Wales region. Only the varieties evaluated at every site are included.

Test weight comparisons

Figure 1: Test weight (kg/hl) comparisons for main season wheat varieties from seven NVT sites in Southern NSW 2019.

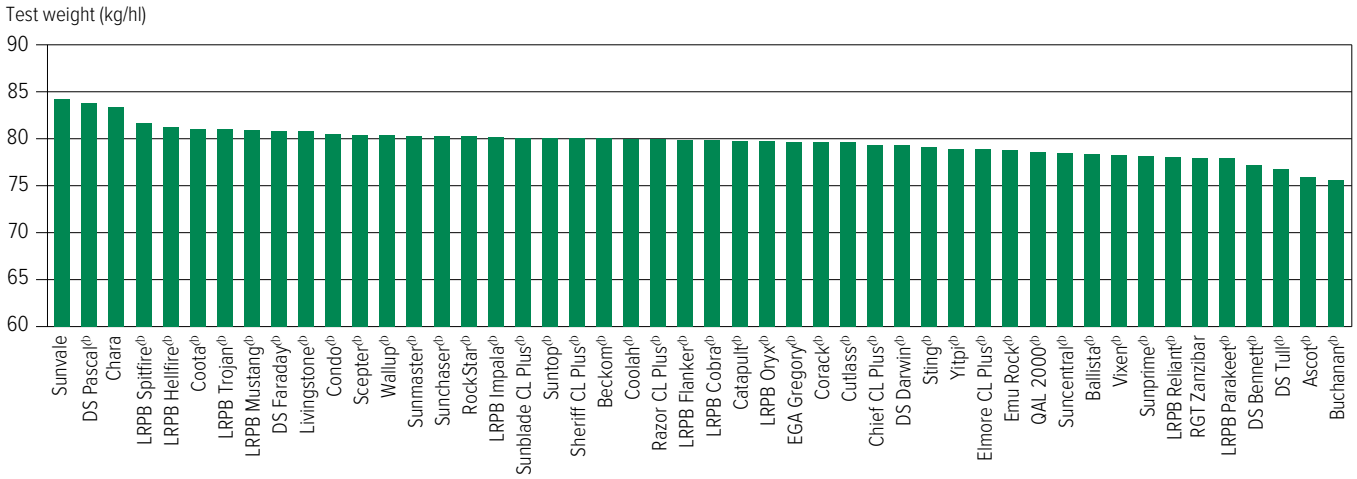


Figure 2: Test weight (kg/hl) comparisons for main season wheat varieties from 10 NVT sites in Southern NSW 2020.

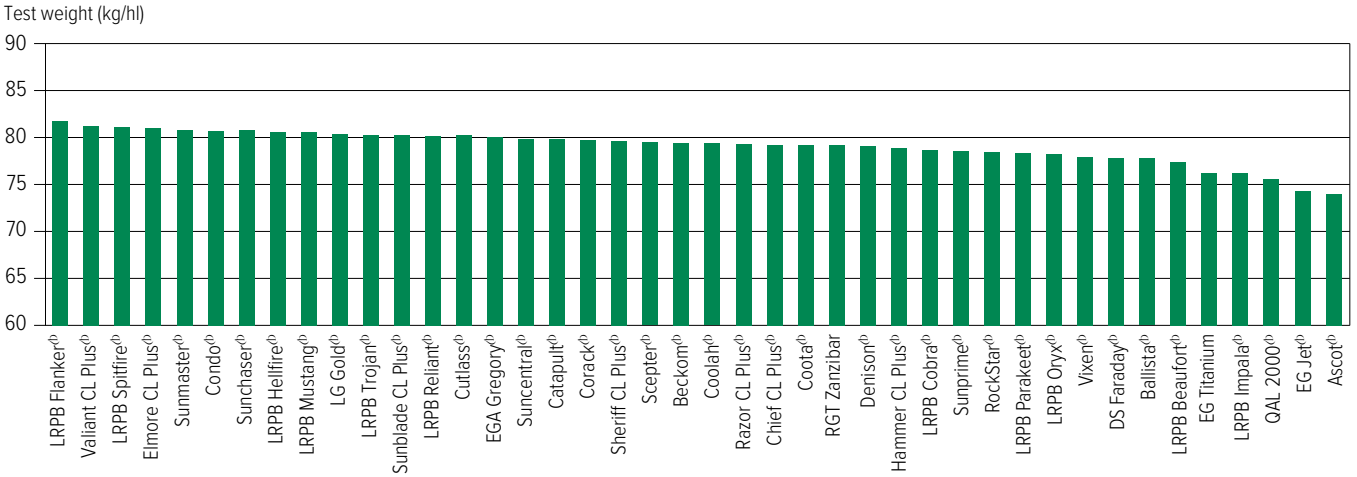


Figure 3: Test weight (kg/hl) comparisons for early season wheat varieties from four NVT sites in Southern NSW 2019.

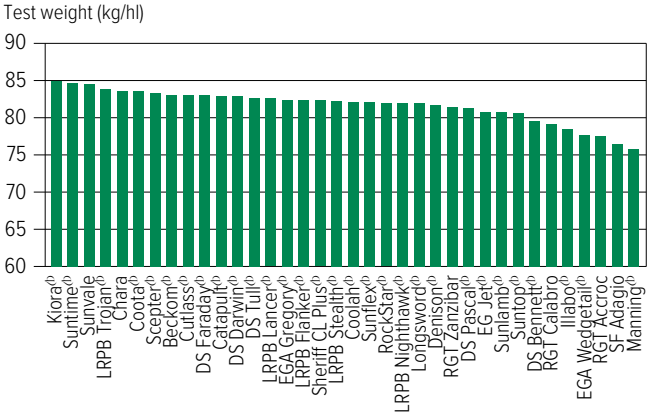


Figure 4: Test weight (kg/hl) comparisons for early season wheat varieties from 10 NVT sites in Southern NSW 2020.

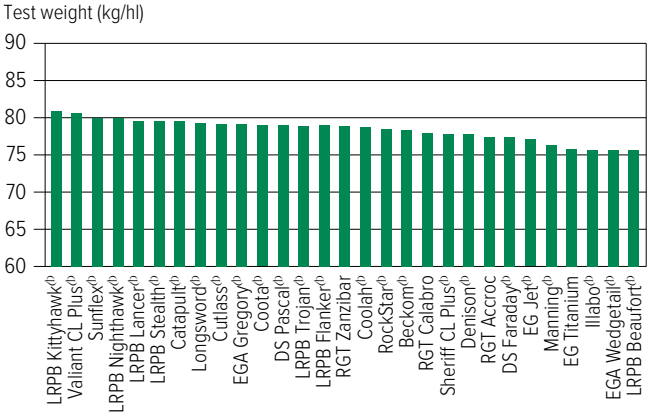


Figure 5: Test weight (kg/hl) comparisons for long season wheat varieties from one NVT site in Southern NSW 2019.

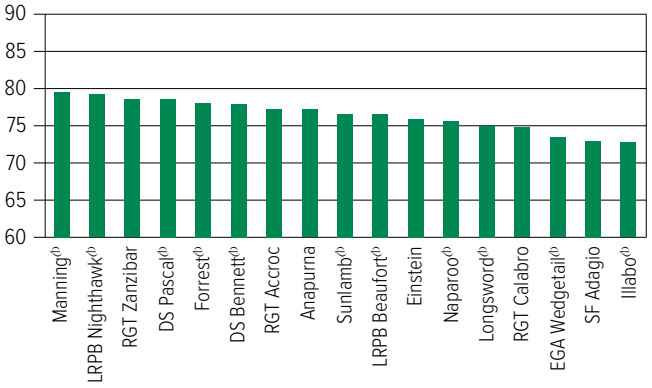


Figure 6: Test weight (kg/hl) comparisons for long season wheat varieties from two NVT sites in Southern NSW 2020.

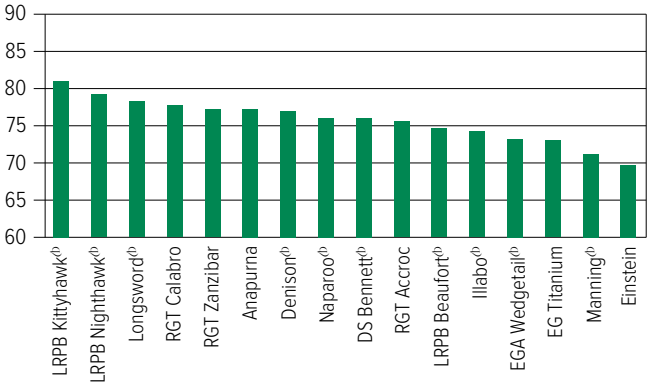


Figure 7: Test weight (kg/hl) comparisons for durum wheat varieties from two NVT sites in Southern NSW 2019.

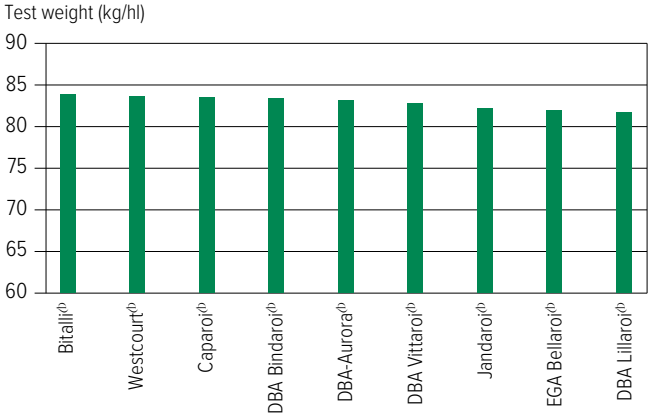
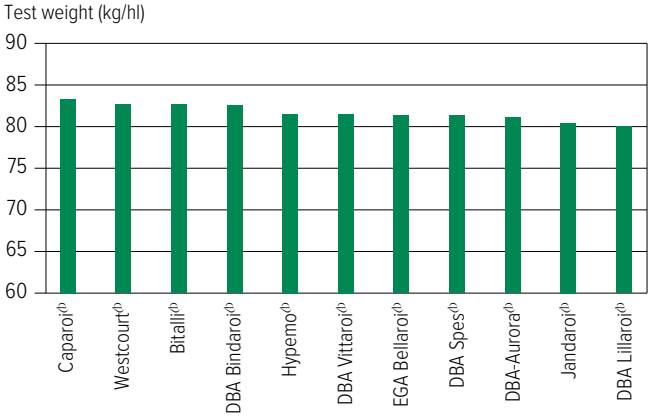


Figure 8: Test weight (kg/hl) comparisons for durum wheat varieties from four NVT sites in Southern NSW 2020.



Screenings comparisons

Figure 9: Screenings (%<2.0mm) comparisons for main season wheat varieties from seven NVT sites in Southern NSW 2019.

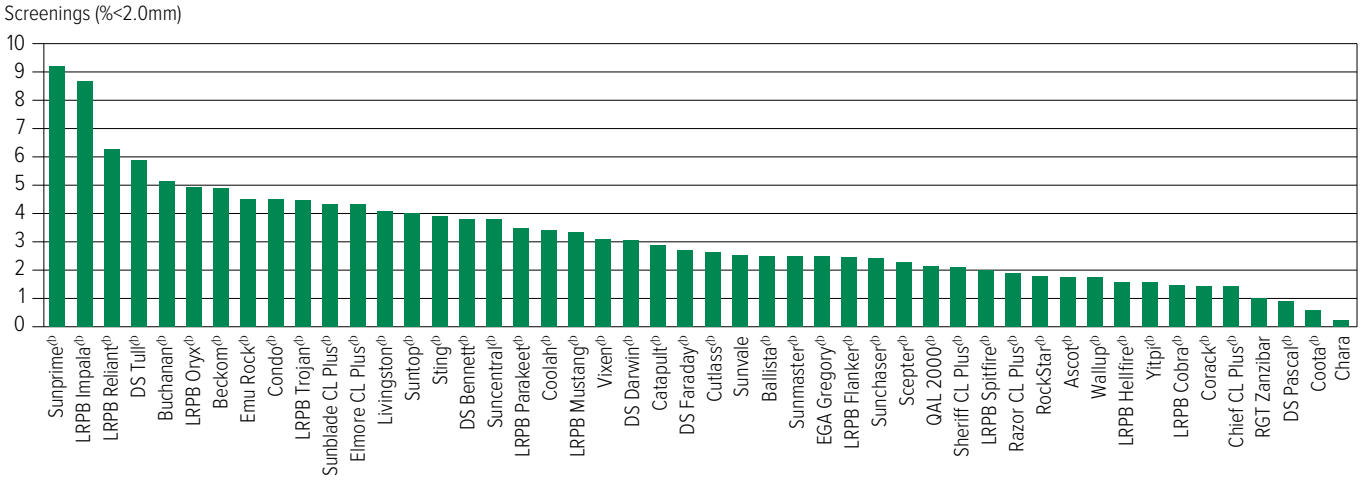


Figure 10: Screenings (%<2.0mm) comparisons for main season wheat varieties from 10 NVT sites in Southern NSW 2020.

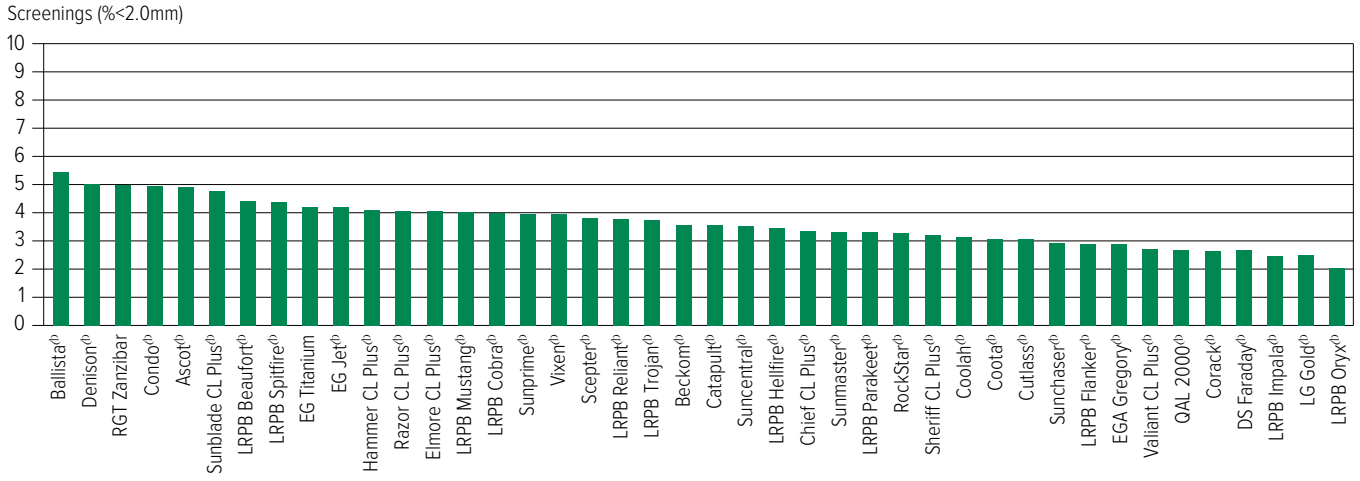


Figure 11: Screenings (%<2.0mm) comparisons for early season wheat varieties from four NVT sites in Southern NSW 2019.

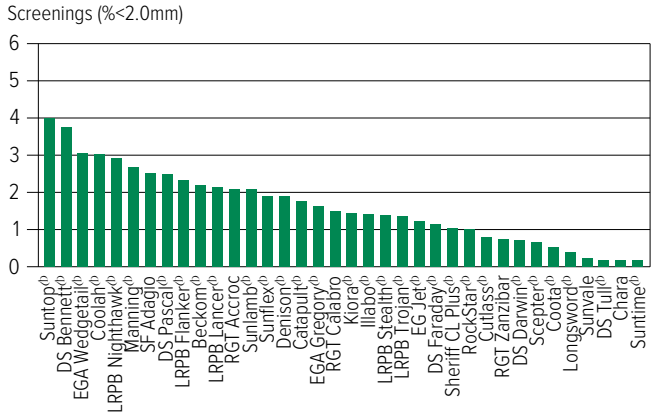


Figure 12: Screenings (%<2.0mm) comparisons for early season wheat varieties from 10 NVT sites in Southern NSW 2020.

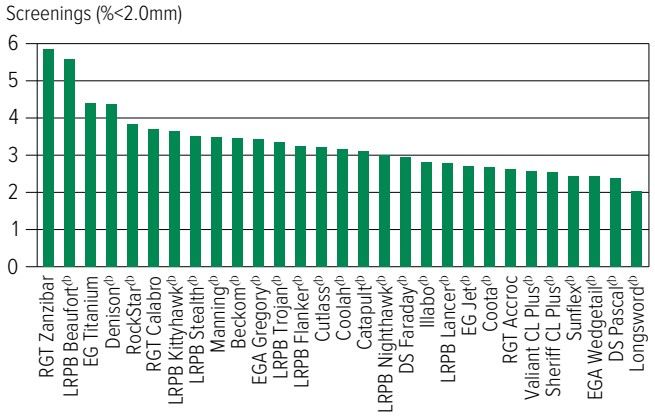


Figure 13: Screenings (%<2.0mm) comparisons for long season wheat varieties from one NVT site in Southern NSW 2019.

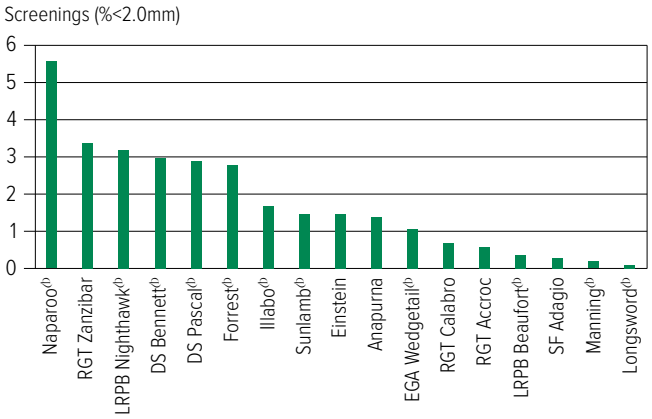


Figure 14: Screenings (%<2.0mm) comparisons for long season wheat varieties from two NVT sites in Southern NSW 2020.

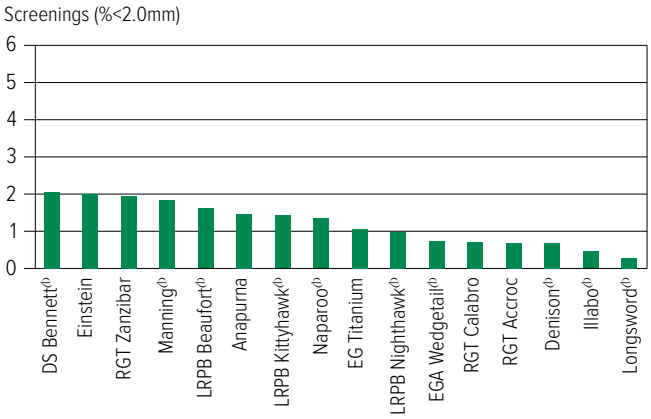


Figure 15: Screenings (%<2.0mm) comparisons for durum wheat varieties from two NVT sites in Southern NSW 2019.

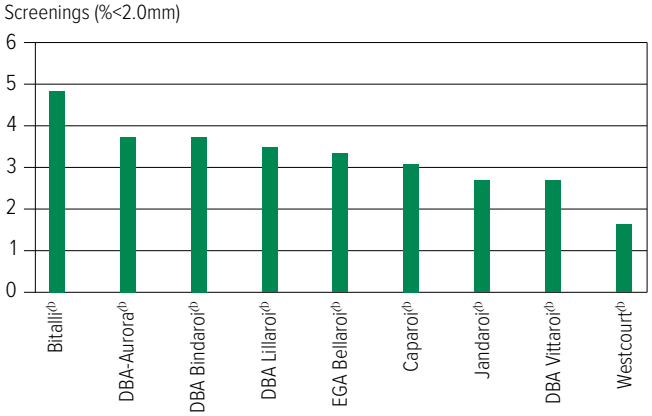
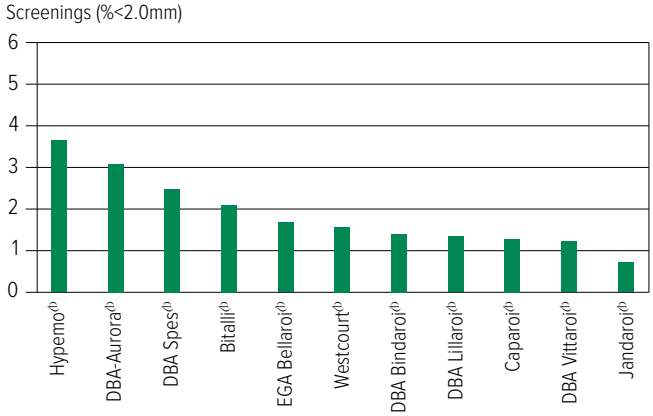


Figure 16: Screenings (%<2.0mm) comparisons for durum wheat varieties from four NVT sites in Southern NSW 2020.



WHEAT VARIETY DISEASE RATINGS – NEW SOUTH WALES

The following table contains varietal ratings for the predominant diseases of wheat in New South Wales. These ratings are updated annually by crop pathologists and were released in March 2021. Selected varieties of most relevance to New South Wales growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and susceptibility ratings.

Table 28: Wheat disease guide for New South Wales.

Variety	Crown rot	Common root rot	Flag smut	Leaf rust	Stem rust	Stripe rust	Septoria tritici blotch	Yellow leaf spot	RLN resistance (*Pratylenchus neglectus*)	RLN tolerance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)	RLN tolerance (*Pratylenchus thornei*)	CCN	Black point
Anapurna	SVS*p*	MSS	R	MS	MSS	RMR	MRMS	MRMS	MS		MS*p*		MRMS	S*p*
Ascot(ɗ)	MSS	MS	MS/MR	RMR	MRMS	MS	S	MRMS	S	MI	S	MI	MRMS	MSS
Ballista(ɗ)	SVS*p*	MS	SVS/MRMS	S	RMR	MSS	SVS	MSS	S	MTMI	MS	IVI	MRMS	MRMS*p*
Beckom(ɗ)	S	MSS	MRMS	MSS	MRMS	MRMS	S	MSS	S	MTMI	MSS	TMT	R	MRMS
Borlaug 100(ɗ)	MSS	MS	MS/R	MR	MR	SVS	MSS	MR	S	T	MS	TMT	MS	MSS
Buchanan(ɗ)	S	MS	MS	MR	MRMS	RMR/MS*p*	MSS	MRMS	MSS	MT	MS	MTMI	MS	MS
Catapult(ɗ)	MSS*p*	MS	MS/RMR	S	MR	MRMS/SVS*p*	MSS	MRMS	S	MI	MS	TMT	R	MSS
Chief CL Plus(ɗ)	MSS	MS	SVS	MR	MR	S	MSS	MRMS	MRMS	MT	MSS	IVI	MS	MS
Condo(ɗ)	S	MSS	MSS	MRMS/SVS	MR	MSS	S	MS	S	MT	MS	TMT	MR	MS
Coolah(ɗ)	MSS	S	R	RMR/MS	MR	RMR	MSS	MSS	S	MT	MS	MT	S	S
Coota(ɗ)	MSS*p*	MS	VS	MS	RMR	MR/MS*p*	MSS	MSS	MR	MI	MS	MT	MR	MR*p*
Corack(ɗ)	S	MS	S	SVS	MR	MS/SVS*p*	S	MRMS	MSS	MT	MSS	MI	RMR	S
Cutlass(ɗ)	S	MS	MSS	RMR	R	MS	MSS	MSS	MSS	MT	MSS	MI	MR	MS
Denison(ɗ)	SVS*p*	MS	MS/R	S	MS	MS/S*p*	MSS	MRMS	S	MII	S	MI	MSS	MS*p*
DS Bennett(ɗ)	VS	S	SVS	SVS	MRMS	S	MSS	MRMS	S		S		S	MSS
DS Darwin(ɗ)	S	MSS	MR	MRMS/SVS	MRMS	MS/S*p*	S	S	S	MII	S	MI	MSS	MS
DS Faraday(ɗ)	MSS	S	RMR	R/MS	RMR	MR	MSS	MSS	S	MTMI	MSS	MT	MS	MSS
DS Pascal(ɗ)	S	MS	S	MS	MSS	RMR	MSS	MS	S	MTMI	S	IVI	S	MS
DS Tull(ɗ)	S	MSS	R	MSS	MR	MR	S	S	MSS	MT	MSS	MTMI	MSS	MRMS
EG Jet(ɗ)	S	MS	MR	S	S	MRMS	S	MRMS	S	MI	S	I	MRMS	MS
EG Titanium	MSS	MSS	MR	MSS	MS	MR	MSS	MSS	S	MTMI	S	MII	R	MSS
EGA Gregory(ɗ)	S	MSS	MSS	RMR/MS	MR	MR	MSS	S	S	MTMI	MSS	MT	S	MSS
EGA Wedgetail(ɗ)	S			MSS	MRMS	MS	MSS	MSS	S	MII	VS	MII	S	MS
Elmore CL Plus(ɗ)	S	S	MSS	RMR	MR	MR	MSS	S	S	MT	S	MII	S	MS
Emu Rock(ɗ)	MSS	MS	MS/MR	SVS	MS	S	SVS	MRMS	MSS	MI	S	IVI	S	MSS
Grenade CL Plus(ɗ)	S	MS	MR	S	MR	MRMS	S	S	MSS		S	IVI	R	MSS
Hammer CL Plus(ɗ)	MSS*p*	MSS	RMR	S	MR	MS	MSS	MRMS	MS	MTMI	S	MII	MRMS	MRMS*p*
Illabo(ɗ)	S	MSS	R	S	MRMS	MR	MSS	MS	S	VI	MSS	MII	MRMS	MRMS
Kiora(ɗ)	S	MS	MRMS	MR/S	MR	RMR	MSS	MSS	S	MTMI	MRMS	MT	MS	MSS
LG B53(ɗ)	MS	S	MRMS	MSS	MSS	MRMS	MSS	MS	MSS	MTMI	MS	TMT	S	MS
LG-Gold(ɗ)	MSS*p*	MS	RMR	MRMS/SVS	MSS	SVS	S	S	S	MT	S	MII	S	S
Longsword(ɗ)	MSS	MS	MRMS	MR/S	MR	S	MSS	MRMS	MRMS	VI	MRMS	MI	MRMS	MS
LRPB Beaufort(ɗ)	S			S	SVS	RMR	MSS	MRMS	MS	MI	MSS	MT		
LRPB Cobra(ɗ)	S	MS	S	MR/S	MR^	MSS	MSS	MRMS	MSS	MTMI	MSS	MI	MS	MSS
LRPB Dart(ɗ)	MSS			S	MR	MR	SVS	MSS	S	MI	MS	MI	S	
LRPB Flanker(ɗ)	MSS	MSS	R	RMR/MSS	RMR	RMR	MSS	MS	S	MT	MSS	MT	S	MS
LRPB Gauntlet(ɗ)	MSS			MRMS/S	RMR	RMR/MS	MSS	MS	S	MTMI	MRMS	MT		
LRPB Gazelle(ɗ)	S			MRMS	MR	MR	MSS	MS	S	MT	S	MII	MSS	
LRPB Hellfire(ɗ)	MSS	MSS	MS/RMR	MSS	MR	MR	S	MSS	MSS	TMT	MSS	MI	MS	MSS
LRPB Impala(ɗ)	MSS	MSS	S	SVS	MR	MR	SVS	MSS	SVS	MTMI	S	MII	MSS	MS

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, ^ line contains a few susceptible off types.

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

Variety	Crown rot	Common root rot	Flag smut	Leaf rust	Stem rust	Stripe rust	Septoria tritici blotch	Yellow leaf spot	RLN resistance (*Pratylenchus neglectus*)	RLN tolerance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)	RLN tolerance (*Pratylenchus thornei*)	CCN	Black point
LRPB Kittyhawk(Þ)	SVS	S	RMR	MRMS	MRMS	RMR	MRMS	MRMS	S	MTMI	S	I	S	MRMS
LRPB Lancer(Þ)	MSS	S	MSS	RMR/MRMS	R	RMR	MS	MRMS	S	MTMI	MS	TMT	S	MRMS
LRPB Mustang(Þ)	MSS	MS	R	MSS	MRMS	RMR	S	MSS	S	MI	MSS	MTMI	MR	MS
LRPB Nighthawk(Þ)	MSS	MSS	MSS	MSS	RMR	MR	MSS	MRMS	MSS	IVI	MS	I	MS	MS
LRPB Oryx(Þ)	MSS	MSS	VS	RMR/S	MR	MR	SVS	MSS	MSS	MII	MSS	IVI	S	MS
LRPB Parakeet(Þ)	MSS	MRMS	MSS/MRMS	R	MR	RMR	S	MSS	MRMS	MT	S	MII	MS	MS
LRPB Reliant(Þ)	MS	MSS	R	RMR	R	MR	S	S	SVS	MTMI	MSS	TMT	MSS	MS
LRPB Spitfire(Þ)	MS	MSS	MSS	S	MR	MR	S	MSS	MSS	MI	MS	MTMI	MS	MSS
LRPB Stealth(Þ)	MS*p*	MSS	MS	RMR/S	R	RMR	MS	MS	MS	MI	S	MTMI	VS	RMR*p*
LRPB Trojan(Þ)	MS	MS	SVS	MR/MS	MRMS	SVS	MS	MSS	MSS	MT	MSS	MI	MS	MS
Mace(Þ)	S	MS	S	MSS	MRMS	SVS	S	MRMS	MS	MII	MS	MT	MRMS	MRMS
Manning(Þ)	VS	SVS	R	MSS	MR	RMR	MRMS	MRMS	MSS		S		S	
Mitch(Þ)	MS	MS	S	MSS	MRMS	MR	S	MSS	S	MT	S	MT	S	
Naparoo(Þ)	S			MS	RMR	RMR	MSS	MS	SVS	I	S	MI		
Razor CL Plus(Þ)	S	MSS	RMR	S	MR	MS	SVS	MSS	S	MT	MS	MI	MR	MS
RGT Accroc	SVS		SVS	SVS	MS	RMR	MRMS	MRMS	S		MSS		S	MRMS
RGT Calabro	SVS	MSS	RMR	MSS	MS	RMR	MRMS	MR	S	VI	MS*p*		S	MS
RGT Zanzibar	S	S	SVS	SVS	VS	RMR	S	MS	S	IVI	MS*p*	MI	MSS	MRMS
RockStar(Þ)	S	MSS	VS	S	MR	MRMS/S*p*	MSS	MRMS	MRMS	MII	MS	MI	MSS	MSS
Scepter(Þ)	MSS	MS	MSS	MSS	MRMS	MSS	S	MRMS	S	MTMI	MSS	MT	MRMS	MS
SEA Condamine	MSS	MSS	RMR	RMR/MRMS*p*	MRMS	MRMS/MS*p*	S	MSS	S	MT	MS	MT	S	MRMS
Sheriff CL Plus(Þ)	S	MS	S	SVS	MS	MS/SVS*p*	S	MRMS	MRMS	MTMI	MRMS	I	MS	MS
Sunblade CL Plus(Þ)	S*p*	S	RMR	MRMS/MSS*p*	MS	MR	S	MSS	MSS	MTMI	MRMS	MT	MS	MR*p*
Suncentral(Þ)	MS*p*	MS	S/MRMS	RMR/MRMS*p*	MRMS	MRMS/S*p*	MSS	MS	MS*p*	MI	MS	MTp	S	RMR*p*
Sunchaser(Þ)	MSS	MSS	RMR	R	MR	RMR	MSS	MS	MSS	MTMI	MSS	MT	MSS	MRMS
Sunflex(Þ)	MS*p*	S	MRMS/R	RMR/S	MR	RMR	MSS	MS	S	MTMI	MSS	MI	MS	MSS
Sunlamb(Þ)	S	MS	S	MS	RMR	MR	MR	MRMS	MSS	I	MSS	MI	MR	MS
Sunmaster(Þ)	MS*p*	MS	MRMS/RMR	RMR/MS*p*	MS	MR	S	MSS	MS	MTMI	MS	MT	MSS	RMR*p*
Sunmate(Þ)	MSS	MS	RMR	MRMS	MRMS	MR	S	MSS	S	MTMI	MRMS	TMT	MRMS	MS
Sunmax(Þ)	MSS	MSS	RMR	MS	MRMS	RMR	MSS	MS	S	MTMI	MS	MI	MRMS	MRMS
Sunprime(Þ)	S	MSS	MS/RMR	MR/S	MRMS	RMR	S	MSS	S	MTMI	S	MTMI	MS	MSS
Suntime(Þ)	MSS	S	MS	MS	MS	MR	MSS	S	S	MTMI	MRMS	MT	MRMS	MS
Suntop(Þ)	MSS	MS	R	MR	MRMS	MRMS	MSS	MSS	S	MT	MRMS	TMT	S	MSS
Sunvale	MSS			MS	RMR	MR	MSS	MSS	S	MI	MSS	MTMI		MRMS
Tenfour(Þ)	MSS	MS	MR	S	SVS	SVS	S	MRMS	S	MT	S	I	MS	MRMS
Tungsten(Þ)	S	S	MRMS	MS	MRMS	MR	MSS	MSS	MSS	MTMI	S	MI	MS	MRMS
Valiant(Þ)				MSS*p*	MR*p*	MRMS*p*/S*p*	MSS*p*	MRMS*p*						
Vixen(Þ)	S	MS	SVS	SVS	MRMS	MRMS/SVS*p*	S	MRMS	MRMS	MT	MS	I	MSS	MSS
Wallup(Þ)	S	MS	SVS	SVS	MRMS	MRMS/MSS*p*	S	MSS	MS	MT	MRMS	MT	MR	MSS
DURUM														
Caparoi(Þ)	VS			RMR	MR	MRMS/MS*p*	MRMS	MR	MS	MI	MR	TMT		
DBA Bindaroi(Þ)	SVS	MSS	R	MR	MRMS	MS	MS	MRMS	MRMS	MI	MR	MTMI	MS	MRMS
DBA Lillaroi(Þ)	SVS	MSS		RMR	RMR	MS	MRMS	MRMS	MRMS	MI	RMR	MT	S	MS
DBA Spes(Þ)	VS	MS	R	R	R	MS	MRMS/SVS	MRMS	MRMS	MTMI	RMR	MI	MS	MS
DBA Vittaroi(Þ)	SVS	MSS	R	RMR	MR	MS	MS/S	MRMS	MS	I	MR	MI	S	MSS
DBA-Aurora(Þ)	VS	MSS		R	RMR	MR	MR/S	MRMS	MRMS	I	RMR	MT	MSS	MS
EGA Bellaroi(Þ)	VS			RMR	MR	MRMS	MRMS	MR	MRMS	MII	MR	MTMI		
Jandaroi(Þ)	VS			MRMS	R	MS	MS	MRMS	MRMS	MII	MRMS	MTMI	MS	
Westcourt(Þ)	VS	MRMS	R	RMR	RMR	MR	MS	MRMS	MS	MI	MR	MT	MSS	

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, ^ line contains a few susceptible off types.

BARLEY

NEW BARLEY VARIETIES

The following information is for barley varieties released during the past 12 months.

Variety	Breeding company	End point royalty* ($)	Comments supplied by breeding company
Beast[Φ]	AGT Seeds	4.00	This variety has very high yields in low-medium rainfall, or Mallee-type environments. With a vigorous Compass[Φ]-style plant type, is up to a week shorter in maturity. It will potentially receive malt accreditation for the 2023 growing season.
Commodus[Φ] CL	Intergrain/GIA	4.25	Commodus[Φ] CL is an imidazolinone-tolerant variety with similar agronomic, disease resistance and quality characteristics to Compass[Φ]. It provides growers in lower-rainfall districts with a variety that is more weed competitive than Spartacus CL[Φ]. It will potentially receive malt accreditation for the 2023 growing season.
Laperouse[Φ]	Seednet	3.80	Laperouse[Φ] has been bred for high grain yield in medium-high rainfall zones, improved physical grain quality, earlier sowing opportunities than other spring barley varieties, excellent straw strength and lodging resistance.
Maximus[Φ] CL	Intergrain/GIA	4.25	Maximus[Φ] CL is an accredited malting quality, high yielding, imidazolinone-tolerant alternative to Spartacus CL[Φ]. Maximus[Φ] CL is an erect dwarf type, providing good lodging tolerance, head loss resistance and improved yield and grain plumpness.
Nitro	GrainSearch	3.60	Nitro is a mid-season maturity, feed grade barley with mid straw height and proven high yield potential.

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

Refer to the latest ***NSW Winter Crop Variety Sowing Guide*** for further information at grdc.com.au/new-south-wales-winter-crop-variety-sowing-guide

BARLEY VARIETY YIELD PERFORMANCE – SOUTHERN NEW SOUTH WALES

The following tables contain yield results from the top-performing varieties within each NVT location in the region for the past five seasons. Data is 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 performance of varieties not listed within these tables can be found by further interrogation of the NVT website via the links below each table. Error bars, normally used to compare data, can be viewed within the graph option also found via the website links below each table. Rainfall is provided for January to March (J–M) and April to October (A–O) and, where relevant, irrigation from April to October.

Table 1: Beckom main season barley.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)					**4.33**
Laperouse(Ф)	No trial	No trial	No trial	No trial	116
Rosalind(Ф)					115
Beast(Ф)					107
La Trobe(Ф)					106
Flinders(Ф)					104
RGT Planet(Ф)					104
Nitro					104
Leabrook(Ф)					103
Fathom(Ф)					100
Bottler(Ф)					99
CLEARFIELD®					
Maximus(Ф) CL					119
Spartacus CL(Ф)					112
Commodus(Ф) CL					98
Sowing date					**18 May**
Rainfall J–M (mm)					**122**
Rainfall A–O (mm)					**366**

For more information click this LINK

Table 2: Deniliquin main season barley.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)					**5.17**
RGT Planet(Ф)	No trial	No trial	No trial	No trial	107
Rosalind(Ф)					106
Fathom(Ф)					105
Nitro					104
Laperouse(Ф)					104
Buff(Ф)					103
Leabrook(Ф)					102
Bottler(Ф)					102
Beast*					102
La Trobe(Ф)					100
CLEARFIELD®					
Maximus(Ф) CL					101
Spartacus CL(Ф)					101
Commodus(Ф) CL					99
Sowing date					**13 May**
Rainfall J–M (mm)					**122**
Rainfall A–O (mm)					**308**

For more information click this LINK

Table 3: Lockhart main season barley.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**6.98**			**2.19**	**6.11**
RGT Planet(Ф)	111	Trial failed	Trial failed	99	123
Rosalind(Ф)	104			125	117
Nitro	106			93	109
Laperouse(Ф)				121	104
Leabrook(Ф)	100			126	101
Fathom(Ф)	100			125	100
Bottler(Ф)	104			92	105
La Trobe(Ф)	97			119	103
Beast(Ф)				136	97
Buff(Ф)	100			110	96
CLEARFIELD®					
Maximus(Ф) CL				125	107
Spartacus CL(Ф)	96			122	102
Commodus(Ф) CL					93
Sowing date	**23 May**	**15 May**	**16 May**	**20 May**	**14 May**
Rainfall J–M (mm)	**118**	**71**	**85**	**60**	**223**
Rainfall A–O (mm)	**598**	**189**	**149**	**185**	**434**

For more information click this LINK

Table 4: Merriwagga main season barley.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**5.58**	**1.47**	**1.36**	**1.05**	**4.27**
Rosalind(Ф)	105	114	117	147	109
RGT Planet(Ф)	120	96	96	110	103
Laperouse(Ф)		113	117	117	117
Beast(Ф)				148	101
Leabrook(Ф)	96	123	120	134	99
Fathom(Ф)	102	117	110	140	93
La Trobe(Ф)	96	113	115	141	99
Nitro	109			88	107
Compass(Ф)	91	124	121	135	93
Bottler(Ф)	107	93	93	88	102
CLEARFIELD®					
Maximus(Ф) CL			123	141	115
Spartacus CL(Ф)	93	112	116	141	106
Commodus(Ф) CL					94
Sowing date	**19 May**	**2 Jun**	**7 Jun**	**15 May**	**12 May**
Rainfall J–M (mm)	**69**	**26**	**41**	**47**	**170**
Rainfall A–O (mm)	**491**	**167**	**110**	**126**	**239**

For more information click this LINK

Table 5: Oaklands main season barley.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**4.86**	**4.78**		**3.30**	**5.00**
RGT Planet[Φ]	121	102	Trial failed	108	113
Rosalind[Φ]	108	109		114	110
Nitro	110			99	109
Laperouse[Φ]		108		105	107
La Trobe[Φ]	98	106		110	100
Bottler[Φ]	107	98		98	104
Fathom[Φ]	97	107		113	94
Leabrook[Φ]	90	109		111	96
Beast*				113	94
LG Alestar[Φ]	107	94		93	102
CLEARFIELD®					
Maximus[Φ] CL				109	109
Spartacus CL[Φ]	97	106		108	103
Commodus[Φ] CL					90
Sowing date	**20 May**	**11 May**	**31 May**	**17 May**	**19 May**
Rainfall J–M (mm)	**86**	**70**	**46**	**28**	**197**
Rainfall A–O (mm)	**480**	**240**	**125**	**115**	**365**

For more information click this LINK

Table 6: Wagga Wagga main season barley.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**6.70**			**2.81**	
RGT Planet[Φ]	122	Trial failed	Trial failed	97	No trial
Oxford	116			95	
Nitro	113			99	
Rosalind[Φ]	108			106	
LG Maltstar[Φ]	109			97	
Bottler[Φ]	108			97	
Explorer	109			92	
Laperouse[Φ]	98			112	
Bass[Φ]	102			102	
Banks[Φ]	101			103	
CLEARFIELD®					
Maximus[Φ] CL				109	
Spartacus CL[Φ]	96			106	
Scope CL[Φ]	90			97	
Sowing date	**18 May**	**16 May**	**17 May**	**16 May**	
Rainfall J–M (mm)	**121**	**79**	**83**	**81**	
Rainfall A–O (mm)	**625**	**223**	**175**	**191**	

For more information click this LINK

BARLEY VARIETY QUALITY – SOUTHERN NEW SOUTH WALES

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

The following figures show the grain quality trends as histograms from 2019 and 2020 NVT averaged for trials in the Southern New South Wales region. Only the varieties evaluated at every site are included.

Test weight comparisons

Figure 1: Test weight (kg/hl) comparisons for main season barley varieties from three NVT sites in Southern NSW 2019.

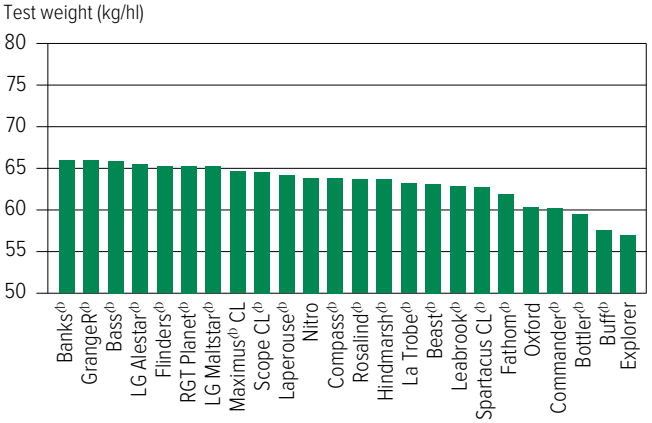
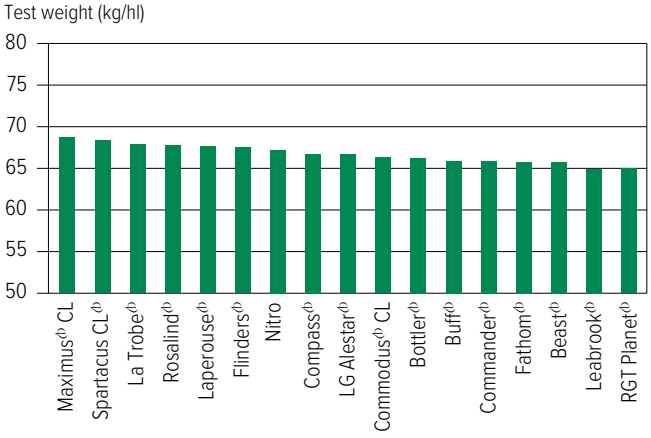


Figure 2: Test weight (kg/hl) comparisons for main season barley varieties from five NVT sites in Southern NSW 2020.



Screenings comparisons

Figure 3: Screenings (%<2.2mm) comparisons for main season barley varieties from three NVT sites in Southern NSW 2019.

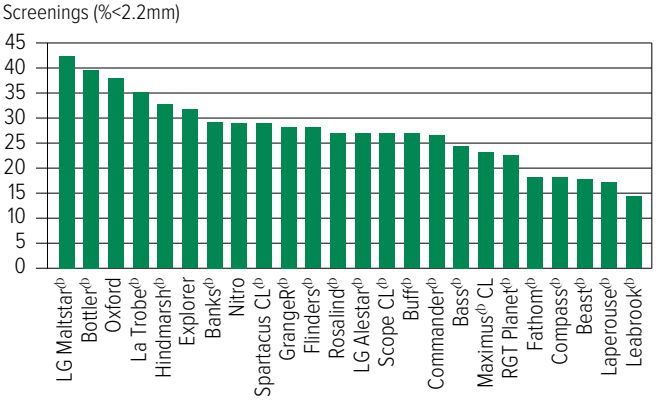
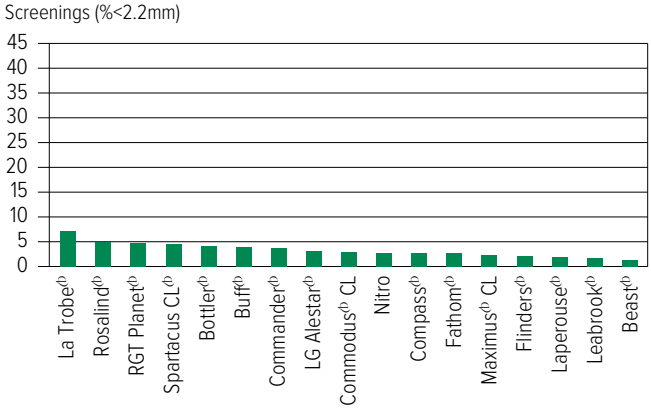


Figure 4: Screenings (%<2.2mm) comparisons for main season barley varieties from five NVT sites in Southern NSW 2020.



Retention comparisons

Figure 5: Retention (%>2.5mm) comparisons for main season barley varieties from three NVT sites in Southern NSW 2019.

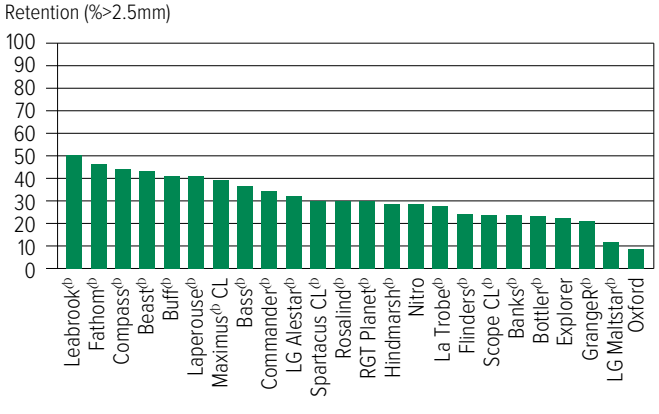
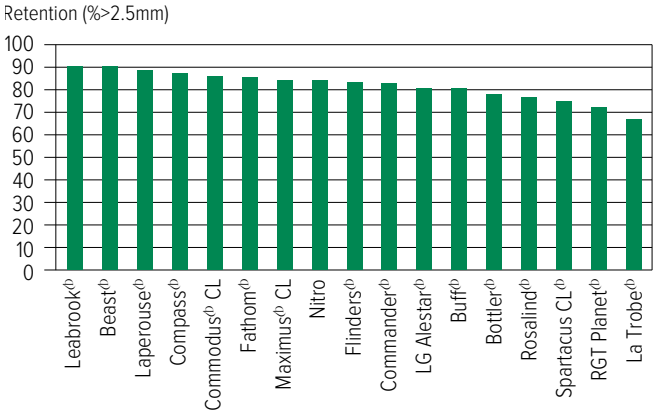


Figure 6: Retention (%>2.5mm) comparisons for main season barley varieties from five NVT sites in Southern NSW 2020.



BARLEY VARIETY DISEASE RATINGS – NEW SOUTH WALES

The following table contains varietal ratings for the predominant diseases of barley in New South Wales. These ratings are updated annually by crop pathologists and were released in March 2021. Selected varieties of most relevance to New South Wales growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and susceptibility ratings.

Table 7: Barley disease guide for New South Wales.

Variety	Leaf scald	Net form net blotch	Spot form net blotch	Leaf rust	Barley grass stripe rust	Crown rot	Common root rot	CCN	RLN resistance (*Pratylenchus neglectus*)	RLN tolerance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)	RLN tolerance (*Pratylenchus thornei*)
Banks(ф)	SVS	MRMS	S	S	R	MSS	MSS	S	MRMS	MI	MR	TMT
Bass(ф)	SVS	MSS	S	SVS	RMR	S	MSS	S	MS	MII	MRMS	MT
Baudin(ф)	SVS	MRMS-S	MSS	SVS	RMR	MSS	S	S	S	MTMI	MSS	I
Beast(ф)	SVS	MR-S	MSS	MS-S	R	S*p*	S	MR	MRMS	MTMI	MR	T
Biere(ф)						S		S	MR	MI	MR	MII
Bottler(ф)	SVS	MS	S	MRMS	RMR	S	MS		MS	TMT	RMR	MI
Buff(ф)	MSS	MS	S	SVS	R	S	MSS		MRMS	MT	MRMS	MI
Buloke(ф)	S	MRMS	MSS	SVS	RMR	S		S	MRMS		MS	MII
Commander(ф)	VS	MSS	MSS	S	MR	S	MSS	R	MRMS	MT	MRMS	MT
Commodus(ф) CL	SVS*p*	MRMS*p*	MSS*p*	SVS*p*	RMR		S		MSS	MT	S	MT
Compass(ф)	SVS	MRMS	MS	SVS	RMR	S	MS	R	MRMS	T	MR	TMT
Fathom(ф)	S	MSS	MR	MSS	MR	S	MSS	R	MRMS	TMT	MR	MT
Fatima	VS	MRMS	S	MR-MS	MR	S	MS	R	MSS	MT	MR	MI
Flinders(ф)	SVS	MRMS	S	MRMS-S	R	S	MS	S	MRMS		MR	MI
Gairdner	SVS	MRMS	S	S	R	S	MSS	S	MRMS	MI	MSS	IVI
GrangeR(ф)	SVS	MRMS-S	SVS	MR-MS	RMR	S	MSS	R	MRMS	MI	MRMS	MTMI
Grout(ф)	SVS	MRMS-S	S	SVS	MR	S	S		MS	TMT	MRMS	MT
Hindmarsh(ф)	SVS	MRMS	SVS	MRMS-S	R	S	S	R	MRMS	MT	MRMS	MT
Kiwi(ф)	S	MRMS	S	RMR-MS	R	S	MSS	S	MRMS	MI	RMR	MTMI
La Trobe(ф)	S	MS	S	MS-S	R	SVS	S	R	MRMS	TMT	MRMS	MT
Laperouse(ф)	VS	MRMS-S	MRMS	SVS	MR	S	MSS	S	MR	MI	MR	MI
Leabrook(ф)	VS	MRMS	MS	SVS	MR	S	MS	RMR	MR	MT	RMR	TMT
LG Alestar(ф)	SVS	MRMS-S	S	R-MS	R	S	MSS	R^	MR	MII	MR	MTMI
LG Maltstar(ф)	SVS	S	SVS	MRMS	R	S	MSS	S	MRMS	MII	MR	MTMI
Maximus(ф) CL	S	MRMS	MS	SVS	MR	S	S	R	MRMS	MT	MR	MI
Nitro	SVS	MRMS	SVS	MS	MR	S*p*	MSS	R	MR	MI	MR	I
Oxford	SVS	MSS	S	MR-MS	RMR	S	MSS	S	MR	I	MR	MII
RGT Planet(ф)	S	S	SVS	MR-MS	MR	S	MSS	R*p*	MRMS	TMT	MR	MI
Rosalind(ф)	S	MR	MSS	MRMS	R	MSS	S	R	MRMS	TMT	MR	TMT
SakuraStar(ф)	S	MS	MS	S	R	S	MSS	R	MR	MT	MR	MI
Schooner	S	MRMS	MS	SVS	MR	S	S	VS	MS		MRMS	MT
Scope CL(ф)	SVS	MRMS	MSS	S	RMR	S	MS	S	MRMS	MTMI	MRMS	MII
Shepherd(ф)	SVS	MR-S	SVS	MRMS	RMR	MSS	MS		MRMS	MTMI	MSS	MI
Spartacus CL(ф)	VS	MR-S	SVS	MR-S	R	S	MSS	R	MRMS	MTMI	MRMS	MI
Sunshine	VS	MR-S	S	MRMS	MR	MSS	MSS	R	MRMS	MI	MRMS	MTMI
Topstart	SVS	SVS	S	MRMS	R	S	MS	S	RMR	I	RMR	MI
Traveler	VS	MRMS	S	MRMS	MR	MSS	S		MR	MII	MR	MI
Urambie(ф)	MS	MR	S	S	R	MSS*p*	MSS		MRMS	I	MR	IVI
Westminster(ф)	MS	MSS	S	MRMS	R	MSS	MSS		MRMS	IVI	MS	I

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 of reactions, ^ line contains a few susceptible off types.

OAT

OAT VARIETY YIELD PERFORMANCE – SOUTHERN NEW SOUTH WALES

The following tables contain yield results from the top-performing varieties within each NVT location in the region for the past five seasons. Data is 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 performance of varieties not listed within these tables can be found by further interrogation of the NVT website via the links below each table. Error bars, normally used to compare data, can be viewed within the graph option also found via the website links below each table. Rainfall is provided for January to March (J–M) and April to October (A–O) and, where relevant, irrigation from April to October.

Table 1: Gerogery oat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**6.35**	**2.07**	**2.71**	**1.56**	**5.31**
Bannister(Φ)	121	117	100	86	120
Bilby(Φ)	116	110	107	112	108
Kowari(Φ)	107	110	103	114	105
Williams(Φ)	105	81	99	93	123
Mitika(Φ)	101	115	97	104	104
Wombat	102	132	83	62	113
Possum	100	111	95	96	107
Durack(Φ)	82	83	99	115	90
Yallara(Φ)	75	85	93	85	76
Koorabup(Φ)	70	80	87	76	85
Sowing date	**19 May**	**17 May**	**16 May**	**20 May**	**19 May**
Rainfall J–M (mm)	**133**	**80**	**79**	**85**	**157**
Rainfall A–O (mm)	**621**	**272**	**173**	**206**	**378**

For more information click this LINK

Table 2: Oaklands oat.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**5.66**	**3.48**		**2.06**	
Bannister(Φ)	120	104	Trial failed	104	No trial
Williams(Φ)	111	108		102	
Bilby(Φ)	109	104		98	
Kowari(Φ)	97	101		92	
Wombat	100	92		95	
Yallara(Φ)	89	93		109	
Possum	92	97		91	
Mitika(Φ)	89	97		88	
Koorabup(Φ)	85	92		105	
Durack(Φ)	78	98		91	
Sowing date	**20 May**	**11 May**	**31 May**	**17 May**	
Rainfall J–M (mm)	**86**	**70**	**46**	**28**	
Rainfall A–O (mm)	**480**	**240**	**125**	**115**	

For more information click this LINK

Refer to the latest *NSW Winter Crop Variety Sowing Guide* for further information at grdc.com.au/new-south-wales-winter-crop-variety-sowing-guide

Table 3: Wagga Wagga oat.					
Year	**2016**	**2017**	**2018**	**2019**	**2020**
Mean yield (t/ha)	**5.39**			**1.57**	**5.77**
Bannister(b)	124	Trial failed	Trial failed	89	117
Bilby(b)	115			118	110
Williams(b)	112			89	115
Kowari(b)	104			120	107
Mitika(b)	95			109	105
Possum	97			98	106
Wombat	101			62	109
Durack(b)	78			114	91
Yallara(b)	76			76	77
Koorabup(b)	72			64	82
Sowing date	**18 May**	**16 May**	**17 May**	**16 May**	**18 May**
Rainfall J–M (mm)	**121**	**79**	**83**	**81**	**123**
Rainfall A–O (mm)	**625**	**223**	**175**	**191**	**408**

For more information click this LINK

OAT VARIETY DISEASE RATINGS – NEW SOUTH WALES

The following table contains varietal ratings for the predominant diseases of oat in New South Wales. These ratings are updated annually by crop pathologists and were released in March 2021. Selected varieties of most relevance to New South Wales growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and susceptibility ratings.

Table 4: Oat disease guide for New South Wales.

Variety	Stem rust	Leaf (crown) rust (South-east NSW)	Leaf (crown) rust (Northern NSW)	Barley yellow dwarf virus (BYDV)	Red leather leaf
Bannister[Φ]	S	MSS	S	MS	MSS
Bilby[Φ]	S	MS-S	MS-S	MS*p*	S
Brusher[Φ]					MS
Durack[Φ]	S	MS	MS	MSS	VS
Forester[Φ]					MR
Koorabup[Φ]	S	MSS	MSS	MS	SVS
Kowari[Φ]	S	S	SVS	MSS	S
Mitika[Φ]	S	S	SVS	S	SVS
Mulgara[Φ]					S
Possum	SVS	S	S	S	S
Tammar[Φ]					MS
Tungoo[Φ]					RMR
Williams[Φ]	S	MRMS	MS	MS	MS
Wintaroo[Φ]					S
Wombat	SVS	SVS	SVS	MSS	S
Yallara[Φ]	S	S	MSS	MS	SVS

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, *p* = provisional rating, - hyphen indicates a range of reactions.

CANOLA

NEW CANOLA VARIETIES

The following information is for canola varieties released during the past 12 months.

Variety	Breeding company	End point royalty* ($)	Comments supplied by breeding company
Hyola® Blazer TT	Pacific Seeds	n/a	Hyola® Blazer TT is a mid to early maturity, triazine herbicide-tolerant hybrid canola with moderate to high seedling vigour, medium plant height and excellent standability. It has quad-gene blackleg resistance and is recommended for yield regions 1.25 to 3.5t/ha.
Hyola® Enforcer CT	Pacific Seeds	n/a	The first in a new generation of Clearfield® and triazine dual-herbicide-tolerant canola hybrids, this is a mid to early maturity type. It has moderate to high seedling vigour, medium plant height and medium standability. It is recommended for yield regions 1.25 to 3.5t/ha.
Hyola® Garrison XC	Pacific Seeds	n/a	Hyola® Garrison XC is a mid-early maturity, dual-herbicide-tolerant hybrid canola with tolerance to TruFlex® and Clearfield®. It has high seedling vigour, medium plant height and excellent standability. It is recommended for yield regions 1.0 to 3.5t/ha.
HyTTec® Trifecta	Nuseed	10.00	A medium-maturity hybrid, triazine-tolerant canola with exceptional early vigour.
InVigor® R 4520P	BASF	n/a	InVigor® R 4520P is an early mid-season TruFlex® hybrid variety. It has excellent seedling vigour, good oil and medium height. InVigor® R 4520P is a companion for InVigor® R 4022P with even higher yield potential in mid and longer season areas.
InVigor® T 6010	BASF	n/a	InVigor® T 6010 is a medium to long season, triazine-tolerant hybrid variety. InVigor® T 6010 has good seedling vigour, good oil and medium height. InVigor® T 6010 is a replacement for InVigor® T 4510 in higher-rainfall areas where a longer-season variety can produce more yield. InVigor® T 6010 is ideally suited to medium to high-rainfall areas including Western Districts and north-eastern Victoria, higher-rainfall areas in southern NSW, south-eastern SA, and longer-season areas in southern WA.
Monola® 420TT	Nuseed	n/a	Monola® 420TT is an early-mid maturing, short plant height, open pollinated, triazine-tolerant specialty oil variety and will be a replacement for Monola® 416TT. It has improved yield and oil compared with Monola® 416TT and is suited to medium-low rainfall zones.
Monola® H421TT	Nuseed	n/a	Monola® H421TT is Nuseed's first Monola® TT hybrid. It is an early maturing hybrid specialty oil variety with medium plant height and suited to medium-low rainfall zones. It is high yielding and has good oil.
Pioneer® 45Y95C	Corteva Agriscience™	n/a	No breeder information provided.
Pioneer® 44Y94 CL	Corteva Agriscience™	n/a	Pioneer® 44Y94 CL is an early-mid (4) maturity Clearfield®-tolerant hybrid. It is a broadly adapted hybrid delivering excellent performance across medium to high-rainfall zones across all canola-growing areas. This hybrid displays impressive early seedling vigour and is medium-tall in height. A companion hybrid to 43Y92 CL and suitable replacement for 44Y90 CL.
SF Dynatron TT™	SeedForce	10.00	SF Dynatron TT™ is a mid-maturing, triazine-tolerant hybrid variety suited to 400mm rainfall zones. Medium to tall height with high oil content.
VICTORY® V75-03CL	Cargill Australia	n/a	VICTORY® V75-03CL is a mid-maturity Clearfield® herbicide-tolerant hybrid with moderate height.

n/a not applicable, * EPR amount is ex-GST, ⓟ denotes Plant Breeder's Rights apply

Refer to the latest *NSW Winter Crop Variety Sowing Guide* for further information at grdc.com.au/new-south-wales-winter-crop-variety-sowing-guide

CANOLA VARIETY YIELD PERFORMANCE – SOUTHERN NEW SOUTH WALES

The following tables contain yield results from the top-performing varieties within each NVT location in the region for the past five seasons. Data is 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 performance of varieties not listed within these tables can be found by further interrogation of the NVT website via the links below each table. Error bars, normally used to compare data, can be viewed within the graph option also found via the website links below each table. Rainfall is provided for January to March (J–M) and April to October (A–O) and, where relevant, irrigation from April to October.

Table 1: Beckom mid season CL canola.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**2.87**	**0.62**	**0.63**	**0.71**	**2.74**
Pioneer® 44Y94 CL					113
Pioneer® 44Y90 CL	114	115	110	112	108
Pioneer® 43Y92 CL	100	120	120	122	104
VICTORY® V75-03CL			89	87	95
VICTORY® V7002CL		79	83	82	93
Sowing date	**3 May**	**27 Apr**	**7 May**	**15 Apr**	**24 Apr**
Rainfall J–M (mm)	**80**	**76**	**47**	**76**	**122**
Rainfall A–O (mm)	**609**	**175**	**128**	**128**	**366**

For more information click this LINK

Table 2: Cootamundra mid season CL canola.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**2.88**	**2.54**	**2.11**	**1.45**	**3.81**
Pioneer® 44Y94 CL				123	113
Pioneer® 45Y93 CL		108	110	110	110
Pioneer® 44Y90 CL		106	109	110	107
Pioneer® 45Y91 CL	104	101	103	102	102
VICTORY® V75-03CL			90	90	96
VICTORY® V7002CL			90	88	93
Sowing date	**7 May**	**1 May**	**2 May**	**29 Apr**	**17 Apr**
Rainfall J–M (mm)	**148**	**115**	**90**	**168**	**174**
Rainfall A–O (mm)	**677**	**269**	**173**	**189**	**485**

For more information click this LINK

Table 3: Gerogery mid season CL canola.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**3.44**	**2.43**	**1.44**	**1.86**	**2.94**
Pioneer® 44Y94 CL				123	116
Pioneer® 45Y93 CL		108	100	109	117
Pioneer® 44Y90 CL		107	106	111	113
Pioneer® 45Y91 CL	104	102	97	102	110
VICTORY® V75-03CL			91	87	84
VICTORY® V7002CL			91	87	88
Sowing date	**27 Apr**	**6 May**	**5 May**	**4 May**	**27 Apr**
Rainfall J–M (mm)	**133**	**80**	**79**	**85**	**157**
Rainfall A–O (mm)	**621**	**272**	**173**	**206**	**378**

For more information click this LINK

Table 4: Lockhart mid season CL canola.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**2.69**	**1.28**	**0.54**	**0.60**	**3.39**
Pioneer® 44Y94 CL					109
Pioneer® 44Y90 CL	109	109	108	112	106
Pioneer® 43Y92 CL	104	113	117	125	102
VICTORY® V75-03CL			96	82	97
VICTORY® V7002CL		88	84	83	95
Sowing date	**3 May**	**2 May**	**8 May**	**24 Apr**	**23 Apr**
Rainfall J–M (mm)	**118**	**71**	**85**	**60**	**223**
Rainfall A–O (mm)	**598**	**189**	**149**	**185**	**434**

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Table 5: Temora mid season CL canola.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**2.13**	**0.65**	**0.86**	**0.25**	**3.17**
Pioneer® 44Y94 CL				147	112
Pioneer® 44Y90 CL	110	108	106	117	110
Pioneer® 43Y92 CL	106	115	114		98
Pioneer® 45Y91 CL	102	99	98	98	108
VICTORY® V75-03CL				82	98
VICTORY® V7002CL		89	91	77	92
Sowing date	**7 May**	**3 May**	**9 May**	**1 May**	**21 Apr**
Rainfall J–M (mm)	**74**	**75**	**83**	**162**	**179**
Rainfall A–O (mm)	**591**	**175**	**151**	**138**	**429**

For more information click this LINK

Table 6: Wagga Wagga mid season CL canola.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**1.54**	**1.42**	**1.66**	**1.27**	**3.33**
Pioneer® 44Y94 CL				119	110
Pioneer® 45Y93 CL		104		99	116
Pioneer® 44Y90 CL	113	107	106	106	108
Pioneer® 45Y91 CL	106	97	99	98	106
VICTORY® V75-03CL				88	97
VICTORY® V7002CL		90	92	90	94
Sowing date	**6 May**	**15 May**	**2 May**	**18 Apr**	**17 Apr**
Rainfall J–M (mm)	**121**	**79**	**83**	**81**	**123**
Rainfall A–O (mm)	**625**	**223**	**175**	**191**	**408**

For more information click this LINK

Table 7: Oaklands early season CL canola.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)					**3.19**
Pioneer® 44Y90 CL	No trial	No trial	No trial	Trial failed	106
Pioneer® 43Y92 CL					103
VICTORY® V7002CL					94
Sowing date				**1 May**	**22 Apr**
Rainfall J–M (mm)				**28**	**197**
Rainfall A–O (mm)				**115**	**365**

For more information click this LINK

Table 8: Beckom mid season GLY canola.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**2.81**	**0.63**	**0.80**	**1.20**	**2.67**
InVigor® R 4520P				114	115
Nuseed® Condor TF				113	110
Nuseed® Raptor TF				112	107
Pioneer® 43Y29 RR		105		102	110
Nuseed® GT-53	108		112	108	103
Pioneer® 44Y27 RR	100	127	120	115	103
InVigor® R 4022P				109	107
Hyola® Garrison XC				104	102
Hyola® 410XX				104	98
InVigor® R 5520P		81	88	93	102
Sowing date	**3 May**	**27 Apr**	**7 May**	**15 Apr**	**24 Apr**
Rainfall J–M (mm)	**80**	**76**	**47**	**76**	**122**
Rainfall A–O (mm)	**609**	**175**	**128**	**128**	**366**

For more information click this LINK

Table 9: Cootamundra mid season GLY canola.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**2.64**	**2.75**	**1.60**	**1.45**	**3.76**
InVigor® R 4520P				123	111
Nuseed® Condor TF				114	110
Pioneer® 45Y28 RR		108	111		111
Pioneer® 43Y29 RR		105			107
InVigor® R 4022P				114	104
Nuseed® GT-53	108	105	99	104	106
Hyola® Garrison XC				102	104
Hyola® 410XX				100	100
InVigor® R 5520P	98	98	107	101	98
Hyola® 540XC				84	94
Sowing date	**7 May**	**1 May**	**2 May**	**29 Apr**	**17 Apr**
Rainfall J–M (mm)	**148**	**115**	**90**	**168**	**174**
Rainfall A–O (mm)	**677**	**269**	**173**	**189**	**485**

For more information click this LINK

Table 10: Gerogery mid season GLY canola.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**3.21**	**2.20**	**1.43**	**1.92**	**2.79**
InVigor® R 4520P				128	144
InVigor® R 4022P				121	135
Pioneer® 43Y29 RR		108			126
Nuseed® Condor TF				113	112
Pioneer® 45Y28 RR		109	104		106
InVigor® R 5520P	99	100	99	106	126
Hyola® Garrison XC				99	91
Nuseed® GT-53	107	103	101	98	85
Hyola® 410XX				98	88
Hyola® 540XC				81	81
Sowing date	**27 Apr**	**6 May**	**5 May**	**4 May**	**27 Apr**
Rainfall J–M (mm)	**133**	**80**	**79**	**85**	**157**
Rainfall A–O (mm)	**621**	**272**	**173**	**206**	**378**

For more information click this LINK

Table 11: Lockhart mid season GLY canola.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**2.58**	**1.27**	**0.74**	**0.54**	**3.35**
InVigor® R 4520P				140	110
Nuseed® Condor TF				120	108
Nuseed® Raptor TF				107	106
Pioneer® 44Y27 RR	105	115	121	127	102
Pioneer® 43Y29 RR		106		110	107
Nuseed® GT-53	107	108	121	99	104
InVigor® R 4022P				133	103
Hyola® Garrison XC				99	102
Hyola® 410XX				100	99
InVigor® R 5520P	99	95	76	103	100
Sowing date	**3 May**	**2 May**	**8 May**	**24 Apr**	**23 Apr**
Rainfall J–M (mm)	**118**	**71**	**85**	**60**	**223**
Rainfall A–O (mm)	**598**	**189**	**149**	**185**	**434**

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Table 12: Temora mid season GLY canola.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**2.09**	**0.61**	**0.89**	**0.22**	**3.17**
InVigor® R 4520P				143	111
Nuseed® Condor TF				130	113
Nuseed® Raptor TF				122	113
Pioneer® 43Y29 RR		108			114
Nuseed® GT-53	113	100	101	111	109
Pioneer® 44Y27 RR	110	115	113	132	98
Hyola® Garrison XC				106	106
InVigor® R 4022P				129	99
Hyola® 410XX				104	98
InVigor® R 5520P	92	103	100	94	99
Sowing date	**7 May**	**3 May**	**9 May**	**1 May**	**21 Apr**
Rainfall J–M (mm)	**74**	**75**	**83**	**162**	**179**
Rainfall A–O (mm)	**591**	**175**	**151**	**138**	**429**

For more information click this LINK

Table 13: Wagga Wagga mid season GLY canola.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)					**2.94**
Pioneer® 45Y28 RR	No trial	No trial	No trial	No trial	115
InVigor® R 4520P					113
Pioneer® 43Y29 RR					113
Nuseed® Condor TF					111
Nuseed® Raptor TF					110
Nuseed® GT-53					106
Hyola® Garrison XC					104
InVigor® R 5520P					102
InVigor® R 4022P					102
Pioneer® 44Y27 RR					99
Sowing date					**17 Apr**
Rainfall J–M (mm)					**123**
Rainfall A–O (mm)					**408**

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Table 14: Oaklands early season GLY canola.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)					**3.03**
Pioneer® 44Y27 RR	No trial	No trial	No trial	Trial failed	110
Pioneer® 43Y29 RR					108
InVigor® R 4022P					108
InVigor® R 4520P					106
Hyola® 410XX					103
Nuseed® Raptor TF					103
Hyola® Garrison XC					102
InVigor® R 3520					100
Sowing date				**1 May**	**22 Apr**
Rainfall J–M (mm)				**28**	**197**
Rainfall A–O (mm)				**115**	**365**

For more information click this LINK

Table 15: Beckom mid season TT canola.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**2.37**	**0.62**	**0.79**	**1.06**	**2.41**
HyTTec® Trifecta			132		122
Hyola® Blazer TT					121
HyTTec® Trident		176	151	143	114
SF Dynatron TT™				120	118
HyTTec® Trophy		146	129	126	115
InVigor® T 4510	115	129	120	119	111
Hyola® Enforcer CT					109
SF Turbine TT	110	114	109	109	106
SF Spark TT			111	109	103
Pioneer® 44T02 TT	86	137	129		99
Sowing date	**3 May**	**27 Apr**	**7 May**	**15 Apr**	**24 Apr**
Rainfall J–M (mm)	**80**	**76**	**47**	**76**	**122**
Rainfall A–O (mm)	**609**	**175**	**128**	**128**	**366**

For more information click this LINK

Table 16: Cootamundra mid season TT canola.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**2.41**	**2.27**	**1.80**	**1.35**	**3.46**
HyTTec® Trifecta				130	121
Hyola® Blazer TT					119
SF Dynatron TT™				124	116
HyTTec® Trophy		115	122	125	116
InVigor® T 4510	115	110	120	120	110
InVigor® T 6010				112	110
Hyola® Enforcer CT				115	110
SF Ignite TT	115	107	108	107	110
DG 670TT	113		110	110	109
SF Turbine TT	109	105	110	110	106
Sowing date	**7 May**	**1 May**	**2 May**	**29 Apr**	**17 Apr**
Rainfall J–M (mm)	**148**	**115**	**90**	**168**	**174**
Rainfall A–O (mm)	**677**	**269**	**173**	**189**	**485**

For more information click this LINK

Table 17: Gerogery mid season TT canola.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**3.19**	**2.23**	**1.08**	**1.48**	**2.37**
HyTTec® Trifecta				134	126
SF Dynatron TT™					132
Hyola® Blazer TT					131
HyTTec® Trophy		116	125	129	119
InVigor® T 4510	111	112	123	127	127
InVigor® T 6010				117	137
SF Ignite TT	115	107	94	107	121
DG 670TT	111		103	111	117
Hyola® Enforcer CT				116	104
SF Turbine TT	107	106	110	113	114
Sowing date	**27 Apr**	**6 May**	**5 May**	**4 May**	**27 Apr**
Rainfall J–M (mm)	**133**	**80**	**79**	**85**	**157**
Rainfall A–O (mm)	**621**	**272**	**173**	**206**	**378**

For more information click this LINK

Table 18: Lockhart mid season TT canola.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**2.41**	**0.75**	**0.66**	**0.16**	**3.17**
HyTTec® Trident		164	167	269	110
HyTTec® Trifecta			136		115
Hyola® Blazer TT				170	116
HyTTec® Trophy		143	132	221	111
SF Dynatron TT™				203	113
InVigor® T 4510	113	132	117	215	107
Hyola® Enforcer CT					106
Pioneer® 44T02 TT	101	131	139		99
SF Turbine TT	107	115	107	150	104
SF Spark TT			114	138	102
Sowing date	**3 May**	**2 May**	**8 May**	**24 Apr**	**23 Apr**
Rainfall J–M (mm)	**118**	**71**	**85**	**60**	**223**
Rainfall A–O (mm)	**598**	**189**	**149**	**185**	**434**

For more information click this LINK

Table 19: Temora mid season TT canola.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**1.63**	**0.58**	**0.61**	**0.25**	**2.74**
HyTTec® Trifecta			127		127
Hyola® Blazer TT					132
HyTTec® Trident			139	166	112
SF Dynatron TT™				139	123
HyTTec® Trophy		124	126	145	116
InVigor® T 6010				112	124
SF Ignite TT	116		94	102	127
Hyola® Enforcer CT				130	109
InVigor® T 4510	118	122	124	136	107
DG 670TT	115		103	112	117
Sowing date	**7 May**	**3 May**	**9 May**	**1 May**	**21 Apr**
Rainfall J–M (mm)	**74**	**75**	**83**	**162**	**179**
Rainfall A–O (mm)	**591**	**175**	**151**	**138**	**429**

For more information click this LINK

Table 20: Wagga Wagga mid season TT canola.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**1.34**	**1.13**	**1.55**	**1.30**	**2.63**
HyTTec® Trifecta			119	117	123
HyTTec® Trident			124	124	109
Hyola® Blazer TT				107	127
SF Dynatron TT™				114	120
HyTTec® Trophy		127	118	117	115
InVigor® T 4510	120	119	116	119	108
InVigor® T 6010				103	121
Hyola® Enforcer CT				111	108
DG 670TT	118		104	101	115
SF Ignite TT	122		99	94	122
Sowing date	**6 May**	**15 May**	**2 May**	**18 Apr**	**17 Apr**
Rainfall J–M (mm)	**121**	**79**	**83**	**81**	**123**
Rainfall A–O (mm)	**625**	**223**	**175**	**191**	**408**

For more information click this LINK

Table 21: Oaklands early season TT canola.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)					**3.02**
HyTTec® Trident	No trial	No trial	No trial	Trial failed	118
Hyola® Blazer TT					114
SF Dynatron TT™					113
HyTTec® Trophy					112
InVigor® T 4510					111
Hyola® Enforcer CT					105
Pioneer® 44T02 TT					105
Hyola® 350TT					104
SF Spark TT					103
Monola® H421TT					96
Sowing date				**30 Apr**	**22 Apr**
Rainfall J–M (mm)				**28**	**197**
Rainfall A–O (mm)				**115**	**365**

For more information click this LINK

Table 22: Beckom mid season conventional canola.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**2.33**	**0.89**	**0.47**	**0.72**	**2.37**
Nuseed® Quartz	116	122	132	124	110
Nuseed® Diamond	83	108	126	122	100
Sowing date	**3 May**	**27 Apr**	**7 May**	**15 Apr**	**24 Apr**
Rainfall J–M (mm)	**80**	**76**	**47**	**76**	**122**
Rainfall A–O (mm)	**609**	**175**	**128**	**128**	**366**

For more information click this LINK

Table 23: Oaklands early season conventional canola.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)					**2.81**
Nuseed® Diamond	No trial	No trial	No trial	Trial failed	112
Nuseed® Quartz					109
Sowing date				**1 May**	**22 Apr**
Rainfall J–M (mm)				**28**	**197**
Rainfall A–O (mm)				**115**	**365**

For more information click this LINK

CANOLA VARIETY DISEASE RATINGS

The following table contains varietal ratings for the predominant diseases of canola. **These ratings are updated twice a year by crop pathologists and were released in autumn 2021.** Disease ratings are colour-coded to match resistance and susceptibility ratings.

Table 24: Canola disease guide (ratings from autumn 2021).

Variety	2021 Blackleg Rating Bare	2021 Blackleg Rating Jockey	2021 Blackleg Rating ILeVo	2021 Blackleg Rating Saltro	Type
CONVENTIONAL VARIETIES					
Nuseed® Quartz	R				Hybrid
Nuseed® Diamond	MR	R	R	R	Hybrid
TRIAZINE-TOLERANT VARIETIES					
HyTTec® Trifecta	R			R	Hybrid
HyTTec® Trident	R			R	Hybrid
Hyola® 350TT	R	R	R	R	Hybrid
Hyola® Blazer TT	R			R	Hybrid
HyTTec® Trophy	R-MR	R	R	R	Hybrid
Monola® H421TT	R-MR			R	High stability oil, Hybrid
Monola® 420TT	R-MR				High stability oil, Open pollinated
Hyola® 559TT	R-MR	R	R	R	Hybrid
Pioneer® 45T03 TT	MR	R	R		Hybrid
SF Spark TT	MR	R-MR	R	R	Hybrid
Pioneer® 44T02 TT	MR	R-MR			Hybrid
DG 670TT	MR-MS				Hybrid
InVigor® T 4510	MR-MS	R	R	R	Hybrid
SF Ignite TT	MR-MS	R	R	R	Hybrid
ATR-Stingray$^{\Phi}$	MR-MS	R-MR	R	R	Open pollinated
ATR-Mako$^{\Phi}$	MR-MS	R-MR	R	R	Open pollinated
SF Turbine TT	MR-MS	R-MR	R	R	Hybrid
SF Dynatron TT™	MS	MR	R	R	Hybrid
InVigor® T 6010	MS		R	R	Hybrid
ATR-Wahoo$^{\Phi}$	MS				Open pollinated
InVigor® T 3510	MS	MR	R	R	Hybrid
ATR-Bonito$^{\Phi}$	MS	MR-MS	R	R	Open pollinated
CLEARFIELD® SYSTEM VARIETIES					
Hyola® 970CL	R			R	Winter, Hybrid
RGT Nizza CL	R				Winter, Hybrid
Hyola® Feast CL	R			R	Winter, Hybrid
Hyola® Equinox CL	R			R	Hybrid
Phoenix CL	R				Winter, Hybrid
Pioneer® 45Y93 CL	R-MR	R	R	R	Hybrid
Pioneer® 44Y94 CL	R-MR	R	R		Hybrid
Pioneer® 43Y92 CL	R-MR	R	R	R	Hybrid
Pioneer® 44Y90 CL	R-MR	R	R	R	Hybrid
VICTORY® V7002CL	R-MR	R	R	R	High stability oil, Hybrid
SF Edimax CL	R-MR				Winter, Hybrid
VICTORY® V7001CL	MR	R	R	R	High stability oil, Hybrid
VICTORY® V75-03CL	MR	R	R	R	High stability oil, Hybrid
Pioneer® 45Y91 CL	MR	R	R	R	Hybrid
Saintly CL	MR				Hybrid
Banker CL	MR-MS				Hybrid

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible.

Please check updated ratings using the Blackleg Management Guide or the NVT Disease Ratings tool.

Table 24: Canola disease guide (ratings from autumn 2021) (continued).					
Variety	**2021 Blackleg Rating Bare**	**2021 Blackleg Rating Jockey**	**2021 Blackleg Rating ILeVo**	**2021 Blackleg Rating Saltro**	**Type**
CLEARFIELD® AND TRIAZINE-TOLERANT VARIETIES					
Hyola® Enforcer CT	R			R	Hybrid
Hyola® 580CT	R	R	R	R	Hybrid
ROUNDUP READY® VARIETIES					
Nuseed® GT-53	R				Hybrid
VICTORY® V5003RR	R-MR	R	R	R	High stability oil, Hybrid
Pioneer® 45Y28 RR	MR	R	R	R	Hybrid
Pioneer® 44Y27 RR	MR	R	R	R	Hybrid
Pioneer® 43Y29 RR	MR	R	R	R	Hybrid
InVigor® R 3520	MR				Hybrid
InVigor® R 5520P	MR		R		Hybrid
DG 408RR	MS				Hybrid
ROUNDUP READY® AND TRIAZINE-TOLERANT VARIETIES					
BASF 3000 TR	MS-S	MR-MS	R-MR	R-MR	Hybrid
TRUFLEX® HYBRID VARIETIES					
Xseed™ Raptor	R			R	Hybrid
Xseed™ Condor	R			R	Hybrid
Hyola® 410XX	R-MR			R	Hybrid
InVigor® R 4022P	MR-MS		R	R	Hybrid
InVigor® R 4520P	MS		R	R	Hybrid
TRUFLEX® AND CLEARFIELD® VARIETIES					
Hyola® Garrison XC	R			R	Hybrid
Hyola® Battalion XC	R				Hybrid
Hyola® 540XC	R-MR			R	Hybrid

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible.

Please check updated ratings using the Blackleg Management Guide or the NVT Disease Ratings tool.

CHICKPEA

NEW CHICKPEA VARIETIES

The following information is for chickpea varieties released during the past 12 months.

Variety	Breeding company	End point royalty* ($)	Comments supplied by breeding company
CBA Captain[Φ]	PBSeeds	4.50	CBA Captain[Φ] is a desi chickpea with medium seed size and broad adaptation to all desi chickpea-growing areas. CBA Captain[Φ] has an erect plant type with good plant height and height to lowest pod. It is early to mid-flowering across Australian chickpea-growing environments, with early to mid-maturity. CBA Captain[Φ] is a good replacement for PBA HatTrick[Φ] in the northern region and provides a competitive desi option with an erect plant type for southern and western regions. CBA Captain[Φ] has good grain quality similar to PBA HatTrick[Φ] and it meets the requirements of a Jimbour type suitable for the subcontinent market.
PBA Magnus[Φ]	AVS/PB Seeds	6.50	PBA Magnus[Φ] is a large-seeded kabuli chickpea with a similar plant type to Genesis™ 090 and similar mid-flowering and mid-maturity. It is adapted to the kabuli-growing regions of Victoria, SA and soils with good drainage in the northern region. With larger seed size than Genesis™ Kalkee, PBA Magnus[Φ] is an excellent replacement for this variety where an erect plant type is not essential. PBA Magnus[Φ] has very good seed size and shape with seed size predominantly nine millimetres.

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

Refer to the latest *NSW Winter Crop Variety Sowing Guide* for further information at grdc.com.au/new-south-wales-winter-crop-variety-sowing-guide

CHICKPEA VARIETY YIELD PERFORMANCE – SOUTHERN NEW SOUTH WALES

The following table contains yield results from the top-performing varieties in the region for the past five seasons. Data is 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 performance of varieties not listed within this table can be found by further interrogation of the NVT website via the link below the table. Error bars, normally used to compare data, can be viewed within the graph option also found via the website link below the table. Rainfall is provided for January to March (J–M) and April to October (A–O) and, where relevant, irrigation from April to October.

Table 1: Rankins Springs desi chickpea.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)					**2.09**
CBA Captain(Φ)	No trial	No trial	No trial	No trial	105
Neelam(Φ)					104
PBA Striker(Φ)					104
PBA Slasher(Φ)					102
PBA Maiden(Φ)					101
PBA Seamer(Φ)					94
PBA Boundary(Φ)					89
Sowing date					**8 May**
Rainfall J–M (mm)					**151**
Rainfall A–O (mm)					**280**

For more information click this LINK

CHICKPEA VARIETY DISEASE RATINGS – NEW SOUTH WALES

The following table contains varietal ratings for the predominant diseases of chickpea in New South Wales. These ratings are updated annually by crop pathologists and were released in March 2021. Selected varieties of most relevance to New South Wales growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and susceptibility ratings.

Table 2: Chickpea disease guide for New South Wales.

Variety	Ascochyta blight (Southern pathotype)	Ascochyta blight (Northern pathotype)	Botrytis grey mould	Phytophthora root rot	RLN resistance (*Pratylenchus neglectus*)	RLN tolerance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)	RLN tolerance (*Pratylenchus thornei*)
DESI								
CBA Captain[Φ]	MS	MS	S	MS*Sp*	MR*p*	TMT*p*	MS*p*	MT
Kyabra[Φ]	VS	VS	S	S*p*	MRMS	MT*p*	MS*Sp*	TMT
Neelam[Φ]	S	S	S		MRMS		MS	MI
PBA Boundary[Φ]	S	MS	S	VS*p*	RMR*p*	MI*lp*	MRMS	TMT
PBA Drummond[Φ]	S	S	S	SVS*p*	MR*p*	T*p*	MRMS*p*	MTMI
PBA HatTrick[Φ]	S	MS	S	MS*Sp*	MRMS	MT*p*	MRMS	MT
PBA Maiden[Φ]	S	MS	S		MRMS		MRMS	IVI
PBA Seamer[Φ]	S	MS	S	S*p*	MRMS	MI*lp*	MRMS	MT
PBA Slasher[Φ]	S	MS	S		MRMS		MRMS	MTMI
PBA Striker[Φ]	S	S	S		MRMS		MRMS	
KABULI								
Almaz[Φ]	S	MS	S		MRMS		S	VI
Genesis™ 090	MS	MS	S		MRMS		MS	MI
Genesis™ Kalkee	S	S	S		MRMS		MS	
PBA Royal[Φ]	MS	MS	S		MR		MS	MTMI

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.

FABA BEAN

FABA BEAN VARIETY YIELD PERFORMANCE – SOUTHERN NEW SOUTH WALES

The following tables contain yield results from the top-performing varieties within each NVT location in the region for the past five seasons. Data is 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 performance of varieties not listed within these tables can be found by further interrogation of the NVT website via the links below each table. Error bars, normally used to compare data, can be viewed within the graph option also found via the website links below each table. Rainfall is provided for January to March (J–M) and April to October (A–O) and, where relevant, irrigation from April to October.

Table 1: Lockhart faba bean.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)					**4.25**
PBA Samira(Ф)	No trial	No trial	No trial	No trial	104
PBA Marne(Ф)					102
PBA Amberley(Ф)					100
Fiesta VF					100
Farah(Ф)					98
PBA Zahra(Ф)					96
Nura(Ф)					93
PBA Bendoc(Ф)					89
Sowing date					**21 Apr**
Rainfall J–M (mm)					**223**
Rainfall A–O (mm)					**434**

For more information click this LINK

Table 2: Yanco faba bean.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)				**4.26**	
PBA Nasma(Ф)	No trial	No trial	No trial	105	No trial
PBA Marne(Ф)				104	
PBA Zahra(Ф)				101	
PBA Samira(Ф)				99	
PBA Amberley(Ф)				98	
Fiesta VF				97	
PBA Bendoc(Ф)				97	
Farah(Ф)				95	
Nura(Ф)				94	
PBA Rana(Ф)				89	
Sowing date				**16 May**	
Rainfall J–M (mm)				**53**	
Rainfall A–O (mm)				**167**	
Irrigation A–O (mm)				**300**	

For more information click this LINK

Refer to the latest *NSW Winter Crop Variety Sowing Guide* for further information at grdc.com.au/new-south-wales-winter-crop-variety-sowing-guide

FABA BEAN VARIETY DISEASE RATINGS – NEW SOUTH WALES

The following table contains varietal ratings for the predominant diseases of faba bean in New South Wales. These ratings are updated annually by crop pathologists and were released in March 2021. Selected varieties of most relevance to New South Wales growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and susceptibility ratings.

Table 2: Faba bean disease guide for New South Wales.

Variety	Ascochyta blight	Cercospora leaf spot	Chocolate spot (*Botrytis*)	Leaf rust	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)
Cairo	VS	S	S	S	RMR*p*	MSS
Doza[Φ]	VS	S	S	MRMS	MR	MSS
Farah[Φ]	S	S	S	VS	MR	MS
Fiesta VF	S	S	S	VS	RMR*p*	MS
Nura[Φ]	RMR	S	MS	S	MR	MS
PBA Amberley[Φ]	RMR	S	MRMS	VS	MR	MS*p*
PBA Bendoc[Φ]	MR	S	S	S	RMR*p*	MRMS*p*
PBA Marne[Φ]	MRMS	S	S	MRMS	MR	MS
PBA Nanu[Φ]		S	S	MRMS	RMR*p*	MS*p*
PBA Nasma[Φ]	S	S	S	MRMS	MR	MSS
PBA Rana[Φ]	MRMS	S	MS	S	MR	MS
PBA Samira[Φ]	RMR	S	MS	S	MR	MRMS
PBA Warda[Φ]	S	S	S	MRMS	MR	MRMS*p*
PBA Zahra[Φ]	MRMS	S	MS	VS	MR	MS

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, *p* = provisional rating.

FIELD PEA

FIELD PEA VARIETY YIELD PERFORMANCE – SOUTHERN NEW SOUTH WALES

The following tables contain yield results from the top-performing varieties within each NVT location in the region for the past five seasons. Data is 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 performance of varieties not listed within these tables can be found by further interrogation of the NVT website via the links below each table. Error bars, normally used to compare data, can be viewed within the graph option also found via the website links below each table. Rainfall is provided for January to March (J–M) and April to October (A–O) and, where relevant, irrigation from April to October.

Table 1: Brocklesby field pea.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**3.26**	**1.27**	**0.69**	**0.67**	**2.32**
PBA Butler(Þ)	111	118	92	89	108
PBA Pearl	105	86	102	120	89
Kaspa(Þ)	109	96	76	73	97
PBA Wharton(Þ)	82	99	111	103	99
Sturt	104	71	106	120	79
PBA Oura(Þ)	93	79	105	115	88
PBA Percy(Þ)	99	50	103	133	84
Sowing date	**2 Jun**	**31 May**	**6 Jun**	**28 May**	**28 May**
Rainfall J–M (mm)	**89**	**97**	**62**	**76**	**142**
Rainfall A–O (mm)	**528**	**326**	**158**	**211**	**401**

For more information click this LINK

Table 2: Deniliquin field pea.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**1.32**	**1.27**		**0.59**	**1.30**
PBA Butler(Þ)	131	108	Trial failed	94	106
PBA Pearl	122	100		106	83
Kaspa(Þ)	98	105		94	101
Sturt	104	92		98	94
PBA Oura(Þ)	83	94		108	87
PBA Percy(Þ)	81	90		113	82
PBA Wharton(Þ)	63	93		106	97
Sowing date	**19 May**	**1 Jun**	**5 Jun**	**27 May**	**27 May**
Rainfall J–M (mm)	**44**	**72**	**28**	**49**	**122**
Rainfall A–O (mm)	**406**	**189**	**125**	**152**	**308**

For more information click this LINK

Refer to the latest *NSW Winter Crop Variety Sowing Guide* for further information at grdc.com.au/new-south-wales-winter-crop-variety-sowing-guide

Table 3: Rankins Springs field pea.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)					**2.51**
PBA Pearl	No trial	No trial	No trial	No trial	107
PBA Butler(b)					107
PBA Percy(b)					102
Sturt					96
PBA Oura(b)					96
Kaspa(b)					93
PBA Wharton(b)					91
Sowing date					**8 May**
Rainfall J–M (mm)					**151**
Rainfall A–O (mm)					**280**

For more information click this LINK

Table 4: Temora field pea.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)		**1.58**	**1.08**	**0.65**	**2.19**
PBA Wharton(b)	Trial failed	107	111	149	90
PBA Pearl		98	90	96	108
PBA Butler(b)		98	92	71	114
PBA Oura(b)		99	101	120	92
Sturt		103	94	89	87
PBA Percy(b)		88	107	99	84
Kaspa(b)		81	88	53	96
Sowing date	**16 Jun**	**23 May**	**24 May**	**29 May**	**19 May**
Rainfall J–M (mm)	**74**	**75**	**83**	**162**	**179**
Rainfall A–O (mm)	**591**	**175**	**151**	**138**	**429**

For more information click this LINK

FIELD PEA VARIETY DISEASE RATINGS – NEW SOUTH WALES

The following table contains varietal ratings for the predominant diseases of field pea in New South Wales. These ratings are updated annually by crop pathologists and were released in March 2021. Selected varieties of most relevance to New South Wales growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and susceptibility ratings.

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

Variety	Blackspot (Ascochyta blight)	Bacterial blight	Downy mildew	Powdery mildew
Kaspa(Φ)	MS	S	S	S
PBA Butler(Φ)	MS	MS	S	S
PBA Gunyah(Φ)	MS	S	S	S
PBA Oura(Φ)	MS	MS	S	S
PBA Pearl	MS	MS	S	S
PBA Percy(Φ)	MS	MRMS	S	S
PBA Twilight(Φ)	MS	S	S	S
PBA Wharton(Φ)	MS	S	S	R^
Sturt	MS	MS	S	S

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, *p* = provisional rating,
^ line contains a few susceptible off types.

LENTIL

LENTIL VARIETY YIELD PERFORMANCE – SOUTHERN NEW SOUTH WALES

The following table contains yield results from the top-performing varieties in the region for the past five seasons. Data is 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 performance of varieties not listed within this table can be found by further interrogation of the NVT website via the link below the table. Error bars, normally used to compare data, can be viewed within the graph option also found via the website link below the table. Rainfall is provided for January to March (J–M) and April to October (A–O) and, where relevant, irrigation from April to October.

Table 1: Wagga Wagga lentil.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)					**2.52**
PBA KelpieXT^{Ф}	No trial	No trial	No trial	No trial	126
PBA Jumbo2^{Ф}					121
PBA Blitz^{Ф}					116
PBA HighlandXT^{Ф}					94
PBA Hurricane XT^{Ф}					94
PBA Ace^{Ф}					92
PBA Bolt^{Ф}					94
PBA Hallmark XT^{Ф}					85
Nipper^{Ф}					105
Sowing date					**25 May**
Rainfall J–M (mm)					**123**
Rainfall A–O (mm)					**408**

For more information click this LINK

Refer to the latest *NSW Winter Crop Variety Sowing Guide* for further information at grdc.com.au/new-south-wales-winter-crop-variety-sowing-guide

LENTIL VARIETY DISEASE RATINGS – NEW SOUTH WALES

The following table contains varietal ratings for the predominant diseases of lentil in New South Wales. These ratings are updated annually by crop pathologists and were released in March 2021. Selected varieties of most relevance to New South Wales growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and susceptibility ratings.

Table 2: Lentil disease guide for New South Wales.

Variety	Ascochyta blight (Pathotype 1 Nipper$^{\Phi}$ virulent)	Ascochyta blight (Pathotype 2 PBA Hurricane XT$^{\Phi}$ virulent)	Botrytis grey mould	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)
Nipper$^{\Phi}$	MRMS	MR	RMR	RMR	MR
PBA Ace$^{\Phi}$	R	R	MS	MR	MRMS
PBA Blitz$^{\Phi}$	MRMS	MR	MRMS	MR	MRMS
PBA Bolt$^{\Phi}$	MR	MRMS	S	MR	MR
PBA Hallmark XT$^{\Phi}$	RMR	MRMS	MR	MR	MRMS
PBA Highland XT$^{\Phi}$	MR	MR	MS	MR	MRMS
PBA Hurricane XT$^{\Phi}$	RMR	MRMS	MS	MRMS	MRMS
PBA Jumbo2$^{\Phi}$	R	R	RMR	MR	MRMS
PBA KelpieXT$^{\Phi}$	MRMS	MRMS	MRMS*p*	MRMS*p*	MRMS

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, *p* = provisional rating.

LUPIN

LUPIN VARIETY YIELD PERFORMANCE – SOUTHERN NEW SOUTH WALES

The following tables contain yield results from the top-performing varieties within each NVT location in the region for the past five seasons. Data is 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 performance of varieties not listed within these tables can be found by further interrogation of the NVT website via the links below each table. Error bars, normally used to compare data, can be viewed within the graph option also found via the website links below each table. Rainfall is provided for January to March (J–M) and April to October (A–O) and, where relevant, irrigation from April to October.

Table 1: Ariah Park narrow-leaf lupin.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**2.40**	**0.81**		**0.15**	**1.46**
Coyote[Φ]	113	89	Trial failed		135
PBA Bateman[Φ]	107			114	131
Jenabillup[Φ]	102	100		100	127
PBA Gunyidi[Φ]	105	96		110	115
Quilinock[Φ]	101	99		82	116
PBA Jurien[Φ]	113	85		78	91
PBA Barlock[Φ]	108	90		75	92
Mandelup[Φ]	101	98		92	91
Wonga	93	106		84	95
Sowing date	**16 May**	**10 May**	**28 Apr**	**1 May**	**22 Apr**
Rainfall J–M (mm)	**92**	**72**	**61**	**147**	**124**
Rainfall A–O (mm)	**630**	**209**	**144**	**121**	**354**

For more information click this LINK

Table 2: Harden narrow-leaf lupin.

Year	2016	2017	2018	2019	2020
Mean yield (t/ha)	**4.66**	**1.30**	**1.03**	**0.58**	**4.24**
Coyote[Φ]	108	92	107		122
PBA Bateman[Φ]	102		103	113	116
PBA Gunyidi[Φ]	104	98		108	109
PBA Jurien[Φ]	112	83		76	102
Jenabillup[Φ]	92	99	93	103	110
Mandelup[Φ]	101	98		92	96
PBA Barlock[Φ]	105	87		75	98
Quilinock[Φ]	91	95	86	87	104
Wonga	88	103	87	88	92
Sowing date	**15 May**	**19 May**	**15 May**	**30 Apr**	**28 Apr**
Rainfall J–M (mm)	**145**	**100**	**79**	**282**	**107**
Rainfall A–O (mm)	**823**	**237**	**142**	**160**	**569**

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Refer to the latest *NSW Winter Crop Variety Sowing Guide* for further information at grdc.com.au/new-south-wales-winter-crop-variety-sowing-guide

Table 3: Henty narrow-leaf lupin.					
Year	**2016**	**2017**	**2018**	**2019**	**2020**
Mean yield (t/ha)		**1.97**	**0.82**	**0.64**	
PBA Bateman[Φ]	Trial failed		103	99	Trial failed
PBA Gunyidi[Φ]		100		102	
Jenabillup[Φ]		101	102	88	
Wonga		100	99	88	
Mandelup[Φ]		98		96	
Quilinock[Φ]		98	97	75	
PBA Barlock[Φ]		93		76	
PBA Jurien[Φ]		91		77	
Sowing date	**18 May**	**12 May**	**2 May**	**7 May**	**16 May**
Rainfall J–M (mm)	**156**	**81**	**106**	**37**	**177**
Rainfall A–O (mm)	**539**	**245**	**137**	**247**	**404**

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LUPIN VARIETY DISEASE RATINGS – NEW SOUTH WALES

The following table contains varietal ratings for the predominant diseases of lupin in New South Wales. These ratings are updated annually by crop pathologists and were released in March 2021. Selected varieties of most relevance to New South Wales growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and susceptibility ratings.

Table 4: Lupin disease guide for New South Wales.

Variety	Brown leaf spot	Anthracnose resistance	Cucumber mosaic virus (CMV)	Phomopsis stem infection	Phomopsis pod infection	Pleiochaeta root rot
Coyote[Φ]	MS*p*	MR*p*	MR*p*	S*p*	MRMS*p*	MR*p*
Jenabillup[Φ]	MRMS	MS	MRMS*p*	MS	MR	MR*p*
Mandelup[Φ]	MS	MRMS	MRMS*p*	RMR	MS	MRMS*p*
PBA Barlock[Φ]	MS	RMR	MR*p*	MR	MR	MRMS
PBA Bateman[Φ]	MS	MRMS*p*	MR*p*	RMR	MS	MR*p*
PBA Gunyidi[Φ]	MS	MRMS	MS*p*	RMR	MRMS	MR*p*
PBA Jurien[Φ]	MS	RMR	MS*p*	RMR	MR	MR
Quilinock[Φ]	MS	VS	MS*p*	S	S	MR*p*

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, *p* = provisional rating.

Useful NVT tools

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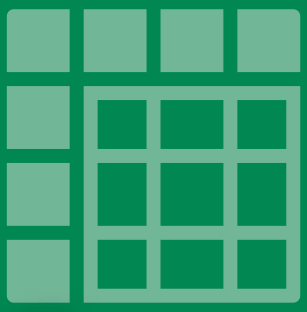
- Harvest Reports
- Sowing Guides

Trial results

Long term yield reporter



Disease reporting tool

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