



NVT HARVEST REPORT



MARCH 2024



Central New South Wales
Northern Region



Title:

NVT Harvest Report – Central New South Wales

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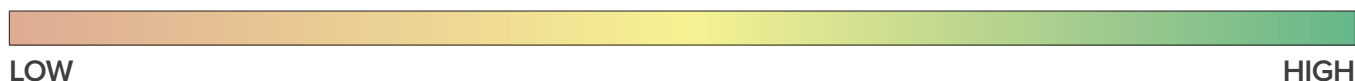
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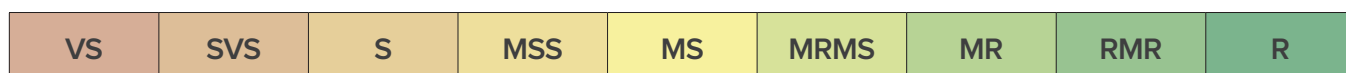
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LEGEND: MEAN VARIETY YIELD PERFORMANCE



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

DISEASE RATING COLOUR RANGE



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

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

Regularly visit nvt.grdc.com.au/nvt-disease-ratings to find the latest NVT disease ratings.

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

INTRODUCTION

The NVT Harvest Report - Central New South Wales provides information to support growers and advisers with decisions on variety selection for **Central 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 2023 and long-term yield performance of varieties of crop species suitable for production in **Central New South Wales** together with their quality and disease responses.

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

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

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

Interpreting long-term yield results

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

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

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

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

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

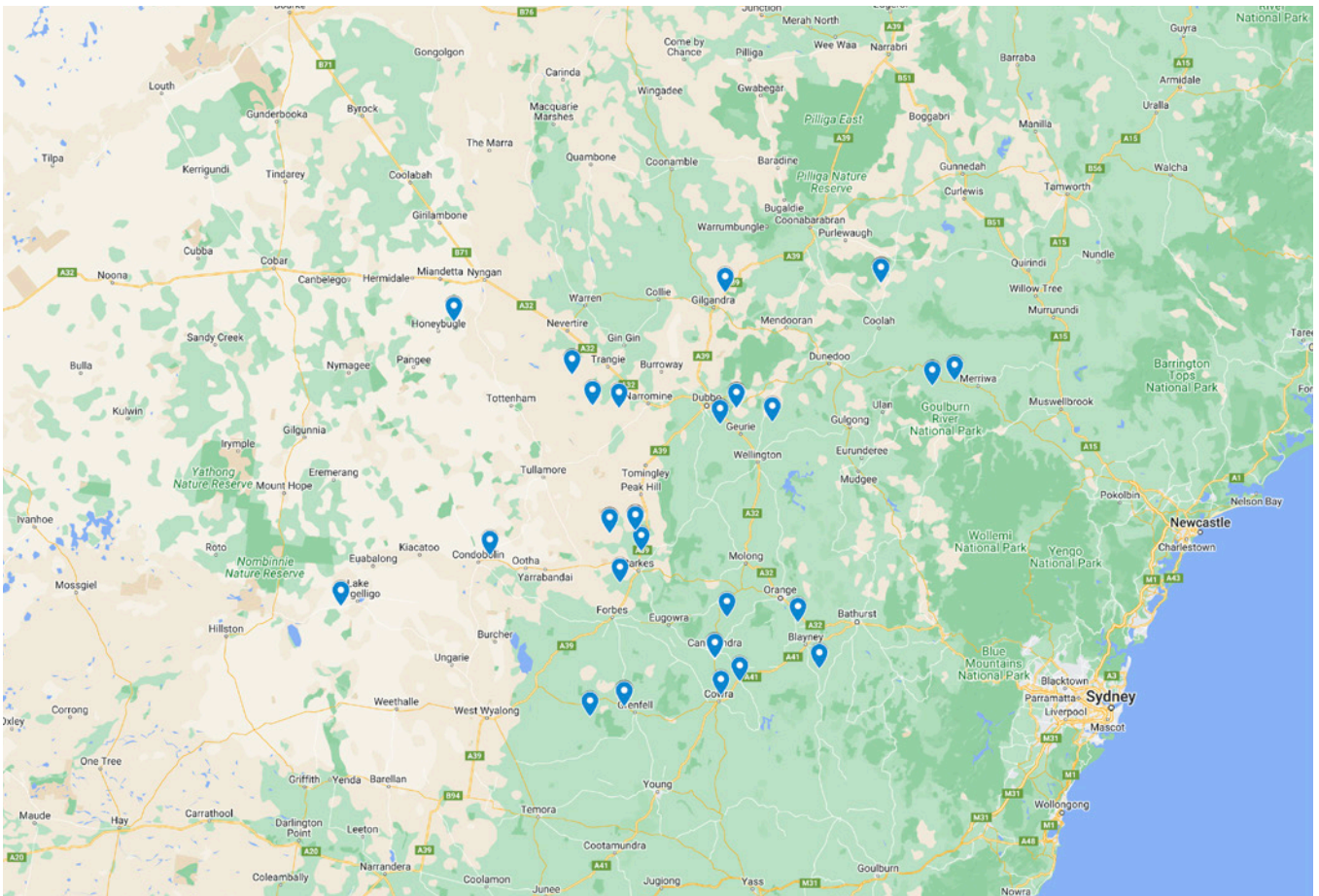
Trials listed as compromised are not suitable for making variety decisions. Results can be found in the [Quarantined trial reports](#).

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

NVT SITE LOCATIONS – Central New South Wales

Figure 1: Locality of NVT trial sites in Central New South Wales from 2019 to 2023.

SOURCE: NVT Online



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

WHEAT

New wheat varieties

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

Variety	Breeding company	Grain classification	End point royalty* (\$)	Comments supplied by breeding company ¹
Genie [®]	InterGrain		3.50	Genie [®] is a mid-slow maturing wheat and is an excellent alternative to RockStar [®] in greater than three tonne per hectare yield environments. In these environments, the variety offers medium-high rainfall growers a yield improvement compared with RockStar [®] . Genie [®] , with its slightly later maturity than RockStar [®] and long coleoptile, enables earlier sowing opportunities to be maximised. Genie [®] has an excellent disease resistance package including useful stem rust and stripe rust resistances. It offers good test weight, moderate grain size and has a medium plant height. Preliminary internal data indicates Genie [®] has good sprouting tolerance. Genie [®] has an AH classification in the western and southern zones and an AH classification is expected for the south-eastern and northern zones in 2024.
Leverage [®]	Australian Grain Technologies		TBC	Replacement for EGA Gregory [®] , Coolah [®] and LRPB Flanker [®] . Very high yielding in the early planting window. APH quality classification in the northern zone, with south eastern zone classification pending. Good resistance to major diseases. Mid-slow maturity, suited to late April/early May planting. Good yellow spot resistance. Good physical grain quality characteristics. Shorter plant type than other EGA Gregory [®] -type varieties.
Longford	Australian Grain and Forage Seeds		3.85	Longford is a long season, high yield potential red wheat with a strong disease package and lodging tolerance. Longford is suited to dual purpose (graze/grain) or grain-only farming systems.
LRPB Major [®]	LongReach Plant Breeders		TBC	Mid-slow maturing spring wheat (similar to Beckom [®] and RockStar [®]) suitable for early to mid May seeding opportunities throughout southern NSW. Good disease package for southern NSW and Victorian production systems with improved Septoria resistance over its Beckom [®] parent. Strong yield performance in both acidic and sodic soil yield trials. AH classification southern NSW, Victoria and South Australia. Marketed by Pacific Seeds.
LRPB Matador [®]	LongReach Plant Breeders		TBC	Variety description not supplied.
LRPB Tracer [®]	LongReach Plant Breeders		TBC	Mid-spring maturing variety (similar to LRPB Reliant [®] and Suntop [®]) suitable for main season seeding opportunities across NSW and Queensland. Strong performance in sodic soil yield trials combined with a good disease package for northern production systems and excellent RLN (<i>Pratylenchus thornei</i>) tolerance. Compact canopy (similar plant height to LRPB Lancer [®]) which can aid in stubble management in zero-till farming systems. APH south east (Southern NSW) northern classification (Northern NSW and Queensland) expected prior to sowing in 2024. Marketed by Pacific Seeds.
SEA Peel	Seed Exchange Australia		TBC	A quick spring variety with yield potential to varieties in this maturity group. Consistently low screenings. Useful levels of resistance to soil-borne pathogens. Strong rust resistance package. Final milling classification anticipated in 2024.

Continued on next page

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

WHEAT

Variety	Breeding company	Grain classification	End point royalty* (\$)	Comments supplied by breeding company ¹
SEA Stockman	Seed Exchange Australia		3.00	An awnless hay wheat. Its quick maturity relative to other hay wheats allows SEA Stockman to be sown relatively late and harvested early to allow a summer crop. Excellent standability. Good rust resistance package. Large kernel size.
Sundancer [Ⓓ]	Australian Grain Technologies		TBC	An ideal replacement for LRPB Lancer [Ⓓ] . Very high yielding, with excellent yield stability. Suits late April, early May planting. Excellent rust resistance. Medium-short plant type with better straw strength than LRPB Lancer [Ⓓ] . Longer coleoptile than LRPB Lancer [Ⓓ] and other early season varieties. APH classification for the northern zone, with southern eastern zone pending.
Tomahawk CL Plus [Ⓓ]	Australian Grain Technologies		4.15	Scepter [Ⓓ] -type Clearfield [®] variety with increased yield over Scepter [Ⓓ] . The highest-yielding Clearfield [®] wheat variety in WA, South Australia and Victoria. Tolerant to Clearfield [®] Intervix [®] herbicide. Similar disease resistance profile to Scepter [Ⓓ] . Similar grain size and test weight as Scepter [Ⓓ] . Mid-season maturity, similar to Scepter [Ⓓ] . APW quality classification in South Australia, Victoria, southern NSW, classification for WA pending.

* EPR amount is ex-GST, [Ⓓ] denotes Plant Breeder's Rights apply. ¹ All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder.

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

Wheat variety yield performance – Central New South Wales

Yield results are presented from the top-performing varieties within each NVT location in the region for the past five seasons. Results are presented (as a percentage) for each variety relative to the mean trial yield for the location within each year. Varieties are listed in descending order of average yield over the period. The Long Term Yield Reporter provides additional information on varieties not listed and can be viewed as a table or chart with error bars. Rainfall is provided for January to March (J–M) and April to October (A–O) and, where relevant, irrigation from April to October.

Table 1: Canowindra main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.48	5.84	6.76	5.57	4.70
Tomahawk CL Plus ^{db*}				101	114
RGT Zanzibar	65	112	114	122	91
Ballista ^{db}	120	106	110	104	108
Sunmaster ^{db}	101	107	111	111	101
Brumby ^{db}			108	102	110
LRPB Tracer ^{db}					105
Scepter ^{db}	126	106	106	100	109
RockStar ^{db}	121	109	105	100	104
Calibre ^{db}		101	104	98	111
Beckom ^{db}	114	104	106	104	105
Vixen ^{db}	134	108	101	95	110
Suncentral ^{db}	98	106	104	108	99
Sunblade CL Plus ^{db*}	108	103	106	103	100
Condo ^{db}	95	103	102	106	106
Kingston ^{db}				100	104
Sowing date	26 May	13 May	24 May	18 May	19 May
Rainfall J–M (mm)	131	195	320	185	155
Rainfall A–O (mm)	121	552	439	619	280

Special thanks to 2023 trial cooperators.
 * herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 2: Condobolin main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	0.97	3.51	4.99	4.30	
Tomahawk CL Plus ^{db*}				107	
Calibre ^{db}		109	111	109	
Brumby ^{db}			107	108	
Vixen ^{db}	141	112	111	99	
Ballista ^{db}	131	107	107	107	
Boree ^{db}		110	110	99	
RockStar ^{db}	129	111	110	98	
LRPB Matador ^{db}				96	
Scepter ^{db}	130	108	106	103	
Denison ^{db}		108	110	97	
Reilly ^{db}				102	
Beckom ^{db}	119	105	103	105	
Kingston ^{db}				102	
Borlaug 100 ^{db}				114	
Catapult ^{db}	127	106	110	89	
Sowing date	23 May	22 May	26 May	15 Jun	3 Jun
Rainfall J–M (mm)	68	229	373	184	157
Rainfall A–O (mm)	69	396	252	581	111

Special thanks to 2023 trial cooperators.
 * herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Trial failed

Table 3: Coolah main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.54	5.70	4.95		2.71
Leverage ^{db}					127
LRPB Raider ^{db}		123	114		127
Sundancer ^{db}					120
IGW5485					119
LRPB Scotch ^{db}			111		120
Catapult ^{db}			114		119
Brumby ^{db}					114
RockStar ^{db}		95	114		118
Genie ^{db}					115
DS Faraday ^{db}	94	111	103		112
Coolah ^{db}	95	107	107		112
LRPB Flanker ^{db}	96	109	104		112
Sunmaster ^{db}		110	101		103
EG Titanium	98	107	105		108
Sunblade CL Plus ^{db*}	106	105	104		105
Sowing date	17 May	25 May	26 May	10 May	12 May
Rainfall J–M (mm)	316	341	279	293	148
Rainfall A–O (mm)	98	537	359	575	141

Special thanks to 2023 trial cooperators.
 * herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Compromised trial

Table 4: Gilgandra main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.47	4.31	6.62	5.08	2.48
Calibre ^{db}			108	102	107
Brumby ^{db}				105	105
Boree ^{db}		104	109	104	106
Leverage ^{db}				110	103
Vixen ^{db}	110	105	106	101	108
Scepter ^{db}	112	104	106	102	106
RockStar ^{db}		101	109	102	104
Sunmaster ^{db}		105	102	106	106
Suncentral ^{db}	107	105	101	106	106
IGW5485					100
Sunblade CL Plus ^{db*}	111	103	104	102	105
Borlaug 100 ^{db}	104	107	100	107	102
Beckom ^{db}	105	103	103	105	104
Jillaroo ^{db}			106	94	106
SUN1081A ^{db}				99	106
Sowing date	17 May	19 May	18 May	24 May	17 May
Rainfall J–M (mm)	99	307	394	180	191
Rainfall A–O (mm)	49	431	325	586	131

Special thanks to 2023 trial cooperators.
 * herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

WHEAT
 BARLEY
 OAT
 CANOLA
 CHICKPEA
 FIELD PEA
 LUPIN

Table 5: Goonumbla main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		4.80	6.65	5.55	3.81
Leverage ^{db}	Trial failed			114	105
RockStar ^{db}		107	110	104	105
Boree ^{db}		109	109	102	106
Brumby ^{db}				105	105
Sundancer ^{db}					103
Calibre ^{db}			106	98	107
Vixen ^{db}		107	108	97	106
IGW5485					101
Scepter ^{db}		105	106	101	105
Catapult ^{db}		105	107	98	106
Beckom ^{db}		103	104	105	103
LRPB Raider ^{db}		100	105	107	102
Sunmaster ^{db}		102	103	106	104
LRPB Scotch ^{db}				111	96
Sunblade CL Plus ^{db*}		102	103	103	104
Sowing date		27 May	18 May	20 May	24 May
Rainfall J–M (mm)	92	211	241	178	187
Rainfall A–O (mm)	114	541	277	358	179

Special thanks to 2023 trial cooperator.

* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 6: Lake Cargelligo main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.58	3.53	5.48	4.65	3.00
Tomahawk CL Plus ^{db*}				95	113
Calibre ^{db}		118	109	98	112
Ballista ^{db}	109	112	109	109	106
Brumby ^{db}			107	104	109
Scepter ^{db}	112	114	105	97	107
Beckom ^{db}	108	107	103	107	105
Sunmaster ^{db}	105	100	98	117	103
Borlaug 100 ^{db}				108	107
Reilly ^{db}				106	101
LRPB Matador ^{db}				92	106
Kingston ^{db}				100	104
RockStar ^{db}	109	110	110	91	104
LRPB Oryx ^{db}					101
Condo ^{db}	99	104	100	108	104
Vixen ^{db}	114	118	109	78	109
Sowing date	15 May	11 May	17 May	8 May	16 May
Rainfall J–M (mm)	82	118	266	273	109
Rainfall A–O (mm)	87	280	264	561	150

Special thanks to 2023 trial cooperator.

* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 7: Merriwa main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.80	5.89	3.80	4.15	
Sunmaster ^{db}		110	97	117	No trial
Leverage ^{db}				124	
Suncentral ^{db}	103	110	90	117	
LRPB Scotch ^{db}			111	106	
Rebel Rat		116	90	110	
Sunblade CL Plus ^{db*}	102	105	108	106	
Brumby ^{db}				101	
Beckom ^{db}	103	104	102	107	
LRPB Impala ^{db}	92	104		101	
Borlaug 100 ^{db}	91	116	86	107	
LRPB Raider ^{db}		95	113	102	
Scepter ^{db}	102	102	114	94	
Calibre ^{db}			113	91	
SEA Condamine	92	113	89	104	
LRPB Oryx ^{db}		105	96	108	
Sowing date	17 May	28 May	26 May	17 Jun	
Rainfall J–M (mm)	202	360	286	301	
Rainfall A–O (mm)	66	382	251	600	

Special thanks to 2023 trial cooperator.

* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 8: Nyngan main season wheat.

Year	2019	2020	2021	2022	2023	
Mean yield (t/ha)			3.36	5.01	0.98	
Boree ^{db}	Trial failed	Trial failed	119	106	118	
Calibre ^{db}			117	103	123	
Vixen ^{db}			114	104	127	
Brumby ^{db}				106	108	
RockStar ^{db}			119	103	107	
Scepter ^{db}			114	104	115	
Sunmaster ^{db}			106	109	104	
Rebel Rat			99	112	111	
Beckom ^{db}			106	108	105	
LRPB Impala ^{db}				111	106	
Sunblade CL Plus ^{db*}			110	104	107	
Suncentral ^{db}			102	109	106	
Leverage ^{db}				109	84	
LRPB Tracer ^{db}					109	
LRPB Oryx ^{db}					112	107
Sowing date			22 May	9 Jun	12 May	26 May
Rainfall J–M (mm)	111	66	240	125	95	
Rainfall A–O (mm)	11	212	181	593	114	

Special thanks to 2023 trial cooperator.

* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

WHEAT
BARLEY
OAT
CANOLA
CHICKPEA
FIELD PEA
LUPIN

Table 9: Quandialla main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.20	5.14	5.02	4.85	4.32
Sunmaster ^{db}	92	115	104	119	107
Tomahawk CL Plus ^{db*}				98	119
RGT Zanzibar	55	112	108	129	96
Sunblade CL Plus ^{db*}	103	111	102	110	108
Leverage ^{db}					107
Calibre ^{db}		103	105	96	112
Suncentral ^{db}	90	109	106	110	104
Brumby ^{db}			104	100	111
Beckom ^{db}	115	106	104	106	107
RockStar ^{db}	125	104	107	96	113
Scepter ^{db}	131	105	102	99	111
Vixen ^{db}	136	105	104	89	116
Kingston ^{db}				100	108
Ballista ^{db}	135	98	105	100	107
Boree ^{db}		103	106	91	112
Sowing date	25 May	11 May	17 May	24 May	9 May
Rainfall J–M (mm)	185	175	262	197	178
Rainfall A–O (mm)	120	435	373	590	194

Special thanks to 2023 trial cooperator, Steve Kelly.

* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 10: Trangie main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		4.58	5.75	5.68	2.08
Suncentral ^{db}		107	104	110	108
Borlaug 100 ^{db}		111	104	109	100
Sunmaster ^{db}		106	104	110	107
Calibre ^{db}			109	104	107
SUN1081A ^{db}				101	110
Brumby ^{db}				106	103
Vixen ^{db}		97	110	104	111
Beckom ^{db}		101	104	108	105
Scepter ^{db}		101	107	104	107
Leverage ^{db}				110	101
IGW5485					96
Sunblade CL Plus ^{db*}		104	104	104	105
Boree ^{db}		97	108	105	105
SEA Condamine		108	101	106	95
LRPB Oryx ^{db}				110	102
Sowing date	21 May	18 Jun	7 Jun	20 May	15 Jun
Rainfall J–M (mm)	92	199	303	173	167
Rainfall A–O (mm)	45	394	271	623	152

Special thanks to 2023 trial cooperator.

* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 11: Wongaroon main season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		5.08	5.74	5.56	1.57
Boree ^{db}		104	110	102	126
Vixen ^{db}		106	109	99	133
RockStar ^{db}		102	109	103	119
Leverage ^{db}				112	91
Calibre ^{db}			108	99	121
Brumby ^{db}				103	109
Beckom ^{db}		103	102	107	109
Suncentral ^{db}		105	100	108	104
LRPB Tracer ^{db}					114
Sunmaster ^{db}		102	100	110	102
SUN1081A ^{db}				100	104
Jillaroo ^{db}			108	91	122
Sunblade CL Plus ^{db*}		100	101	106	105
Catapult ^{db}			108	96	113
Genie ^{db}					102
Sowing date	21 May	14 May	19 May	25 May	13 Jun
Rainfall J–M (mm)	173	331	364	227	125
Rainfall A–O (mm)	81	516	345	751	161

Special thanks to 2023 trial cooperator.

* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 12: Canowindra early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.56	6.26	6.59	5.57	5.72
RGT Zanzibar	106	111	124	118	107
LRPB Beaufort ^{db}		112	123	119	104
Leverage ^{db}				106	112
BigRed ^{db}			126	133	84
Sundancer ^{db}				107	107
Stockade ^{db}				116	96
RGT Cesario ^{db}		108	121	130	82
LRPB Major ^{db}				100	112
RGT Accroc ^{db}	55	109	120	128	83
Genie ^{db}					108
RockStar ^{db}	121	107	102	95	112
LRPB Scotch ^{db}			108	106	103
Valiant ^{db} CL Plus*		103	103	100	105
EG Jet ^{db}	94	103	106	107	98
Denison ^{db}	126	102	98	91	113
Sowing date	1 May	28 Apr	21 Apr	4 May	26 Apr
Rainfall J–M (mm)	131	195	320	185	155
Rainfall A–O (mm)	121	552	439	619	280

Special thanks to 2023 trial cooperator.

* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

WHEAT
BARLEY
OAT
CANOLA
CHICKPEA
FIELD PEA
LUPIN

Table 13: Condobolin early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.34	4.36	4.60	4.51	
RockStar ^{db}	137	108	117	105	Trial failed
Leverage ^{db}				106	
RGT Zanzibar	101	115	103	112	
LRPB Beaufort ^{db}		110	107	110	
LRPB Major ^{db}				106	
Sundancer ^{db}				105	
Catapult ^{db}	126	104	111	98	
Denison ^{db}	115	107	107	100	
Sheriff CL Plus ^{db*}	125	103	107	98	
Coota ^{db}	126	102	107	98	
Valiant ^{db} CL Plus*		105	104	103	
LRPB Trojan ^{db}	123	102	107	98	
Beckom ^{db}	119	103	105	100	
LRPB Scotch ^{db}			98	107	
BigRed ^{db}			104	110	
Sowing date	16 Apr	22 Apr	6 May	25 Apr	
Rainfall J–M (mm)	68	229	373	184	157
Rainfall A–O (mm)	69	396	252	581	111

Special thanks to 2023 trial cooperator.

* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 14: Coolah early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.34	5.62	5.56		3.17
Leverage ^{db}					104
RGT Zanzibar	94	112	116		100
Jumbuck ^{db}					102
Sundancer ^{db}					99
LRPB Raider ^{db}		106	107		105
Catapult ^{db}			103		106
Sunmax ^{db}	93	107	104		114
RockStar ^{db}		103	103		105
Sunflex ^{db}	105	104			104
Severn ^{db}			106		110
Coota ^{db}	108	103	103		104
LRPB Nighthawk ^{db}	81	108	108		103
Coolah ^{db}	104	101	102		100
SUN1081A ^{db}					93
LRPB Scotch ^{db}					95
Sowing date	29 Apr	15 May	20 May	10 May	12 May
Rainfall J–M (mm)	316	341	279	293	148
Rainfall A–O (mm)	98	537	359	575	141

Special thanks to 2023 trial cooperator.

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

Table 15: Gilgandra early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.87		6.92	5.78	2.88
LRPB Major ^{db}		Compromised trial			110
Leverage ^{db}				109	112
Sundancer ^{db}				111	109
Jumbuck ^{db}					115
SUN1081A ^{db}					104
Catapult ^{db}	124			111	96
RockStar ^{db}				111	100
LRPB Raider ^{db}				106	99
Coota ^{db}	114			106	99
Sunflex ^{db}	109				102
Coolah ^{db}	112			103	99
LRPB Stealth ^{db}	110			103	99
Brumby ^{db}					
LRPB Scotch ^{db}					111
LRPB Lancer ^{db}	99			101	98
Sowing date	23 Apr		21 Apr	11 May	9 May
Rainfall J–M (mm)	99	307	394	180	191
Rainfall A–O (mm)	49	431	325	586	131

Special thanks to 2023 trial cooperator.

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

Table 16: Goonumbla early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		5.24	7.00	5.24	3.84
LRPB Major ^{db}		Trial failed			109
Leverage ^{db}					107
Sundancer ^{db}					107
RockStar ^{db}			105	107	101
Jumbuck ^{db}					
Catapult ^{db}			104	106	97
Sunflex ^{db}			105		103
LRPB Raider ^{db}			106	104	99
Coota ^{db}			104	104	100
LRPB Nighthawk ^{db}			106	98	110
SUN1081A ^{db}					97
Illabo ^{db}			102	97	113
Coolah ^{db}			101	102	98
LRPB Scotch ^{db}					108
Valiant ^{db} CL Plus*				100	102
Sowing date	9 May		22 Apr	7 May	10 May
Rainfall J–M (mm)	92	211	241	178	187
Rainfall A–O (mm)	114	541	277	358	179

Special thanks to 2023 trial cooperator.

* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

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Table 17: Quandialla early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.39	5.45	5.67	4.77	4.46
RGT Zanzibar	101	115	111	115	119
LRPB Beaufort ^{db}		113	116	115	110
BigRed ^{db}			123	126	97
RockStar ^{db}	153	105	111	96	111
Leverage ^{db}				105	109
Genie ^{db}					112
RGT Accroc ^{db}	55	109	120	122	90
Sundancer ^{db}				106	106
LRPB Major ^{db}				100	114
Stockade ^{db}				113	105
LRPB Scotch ^{db}			101	105	114
RGT Cesario ^{db}		109	117	123	89
IGW6755					107
EG Jet ^{db}	98	106	104	106	108
Valiant ^{db} CL Plus*		103	103	100	106
Sowing date	7 May	27 Apr	30 Apr	9 May	21 Apr
Rainfall J–M (mm)	185	175	262	197	178
Rainfall A–O (mm)	120	435	373	590	194

Special thanks to 2023 trial cooperator, Steve Kelly.

* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 18: Trangie early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)				5.77	2.78
Sundancer ^{db}				117	106
Leverage ^{db}				114	109
LRPB Major ^{db}					111
RockStar ^{db}				106	109
Jumbuck ^{db}					106
SUN1081A ^{db}				105	104
Sunflex ^{db}				105	104
LRPB Scotch ^{db}				110	93
Coota ^{db}				102	106
Catapult ^{db}				100	110
Illabo ^{db}				107	91
Valiant ^{db} CL Plus*				103	99
LRPB Raider ^{db}				99	107
LRPB Nighthawk ^{db}				104	94
LRPB Stealth ^{db}				100	102
Sowing date	10 May	7 May	11 May	26 Apr	9 May
Rainfall J–M (mm)	92	199	303	173	167
Rainfall A–O (mm)	45	394	271	623	152

Special thanks to 2023 trial cooperator.

* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 19: Wongarbron early season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		5.15	6.54	5.24	2.66
Leverage ^{db}				108	110
Sundancer ^{db}				110	111
RockStar ^{db}		109	106	105	113
Catapult ^{db}			106	102	113
RGT Zanzibar		100	107	118	98
SUN1081A ^{db}				103	110
Jumbuck ^{db}					105
Coota ^{db}		105	104	102	107
Sunflex ^{db}		104		103	104
LRPB Raider ^{db}		105	105	100	105
LRPB Stealth ^{db}		104	101	100	107
Coolah ^{db}		103	102	100	105
Brumby ^{db}					111
LRPB Lancer ^{db}		102	99	100	105
Valiant ^{db} CL Plus*			98	103	102
Sowing date	8 May	23 Apr	3 May	26 Apr	6 May
Rainfall J–M (mm)	173	331	364	227	125
Rainfall A–O (mm)	81	516	345	751	161

Special thanks to 2023 trial cooperator.

* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 20: Blayney/Millthorpe long season wheat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	2.10	6.63	8.23	6.71	6.48
RGT Accroc ^{db}	92	110	120	117	101
RGT Cesario ^{db}		108	117	128	95
BigRed ^{db}			115	127	97
Anapurna	71	108	115	121	98
LRPB Beaufort ^{db}	137	111	116	84	109
Longford			112	130	96
Stockade ^{db}				109	100
RGT Waugh ^{db}		98	110	131	93
IGW6755			103	105	106
RGT Zanzibar	134	106	108	83	108
DS Bennett ^{db}	117	106	106	94	104
Willaura ^{db}					113
Manning ^{db}	101	93	102	117	100
Einstein	99	94	102	108	93
Illabo ^{db}	118	99	99	88	102
Sowing date	4 Apr	15 Apr	16 Apr	13 Apr	14 Apr
Rainfall J–M (mm)	160	324	366	254	277
Rainfall A–O (mm)	148	661	534	817	353

Special thanks to 2023 trial cooperator.

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

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Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.81	6.32	5.54		3.25
RGT Cesario ^{db}			121	No trial	113
RGT Accroc ^{db}	98	123	124		118
Manning ^{db}	78	132	112		124
BigRed ^{db}			116		111
Anapurna	93	120	111		105
IGW6755			110		108
Einstein	78	116	109		110
DS Bennett ^{db}	118	96	113		110
Willaura ^{db}					104
LRPB Beaufort ^{db}	111	85	107		99
Severn ^{db}			91		100
RGT Zanzibar	107	83	100		95
Illabo ^{db}	100	87	94		92
LRPB Kittyhawk ^{db}		93	86		88
LRPB Nighthawk ^{db}	96	88	88		87
Sowing date	9 Apr	27 Apr	20 Apr		
Rainfall J–M (mm)	316	341	279		148
Rainfall A–O (mm)	98	537	359		141

Special thanks to 2023 trial cooperator.
Learn more via the [NVT Long Term Yield Reporter](#)

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		6.71	7.09	5.97	6.18
Anapurna	Trial failed	118	116	130	103
BigRed ^{db}			114	131	98
LRPB Beaufort ^{db}		115	120	107	113
Longford			110	134	94
Stockade ^{db}				112	109
RGT Accroc ^{db}		110	115	124	96
RGT Cesario ^{db}		109	112	129	94
RGT Zanzibar		112	113	102	112
RGT Waugh ^{db}		110	106	134	88
Illabo ^{db}		102	102	95	104
Willaura ^{db}					112
IGW6755			102	90	109
Valiant ^{db} CL Plus*			98	83	110
LRPB Nighthawk ^{db}		97	95	92	101
Manning ^{db}		95	93	111	84
Sowing date		4 Apr	15 Apr	14 Apr	12 Apr
Rainfall J–M (mm)	204	156	213	229	160
Rainfall A–O (mm)	198	542	419	582	287

Special thanks to 2023 trial cooperator.
* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Wheat variety quality – Central New South Wales

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

The following figures show the grain quality trends as histograms from 2022 and 2023 NVT averaged for trials in the Central New South Wales region. Only the varieties evaluated at every site are included. These are plotted in order of performance, up to a maximum of 20.

Protein and yield comparisons

Figure 1: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from 10 NVT sites in Central NSW in 2022.

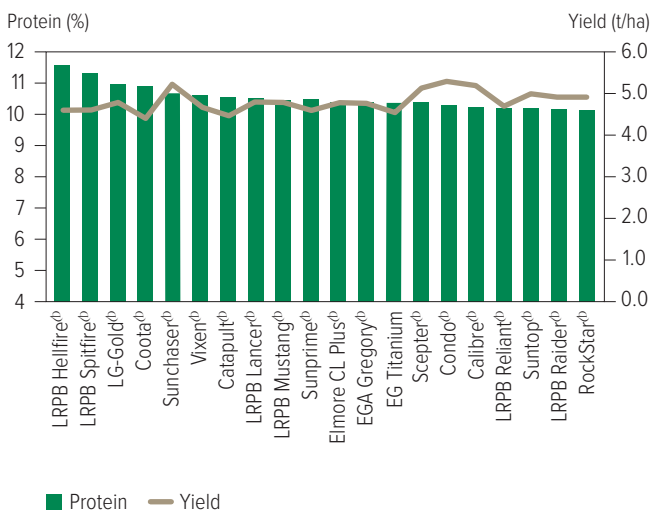


Figure 2: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from nine NVT sites in Central NSW in 2023.

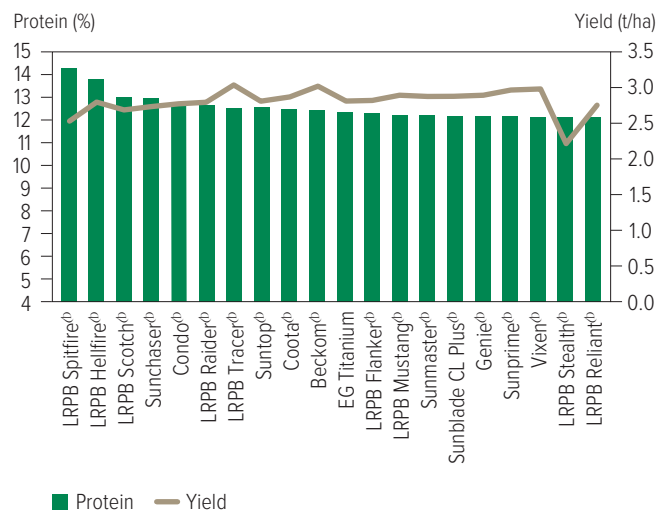


Figure 3: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from seven NVT sites in Central NSW in 2022.

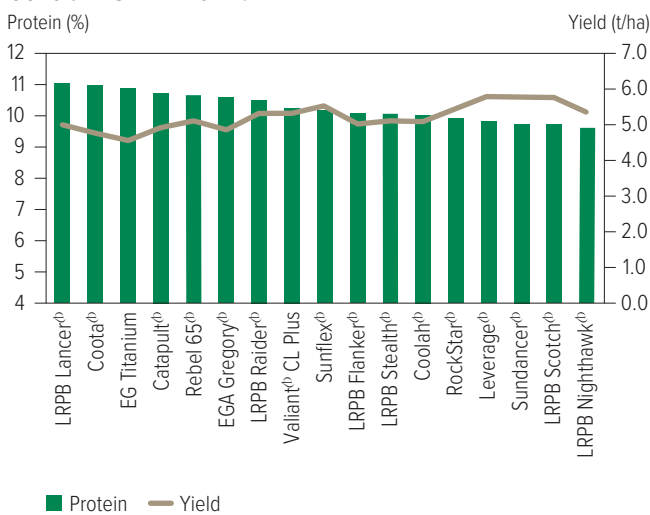
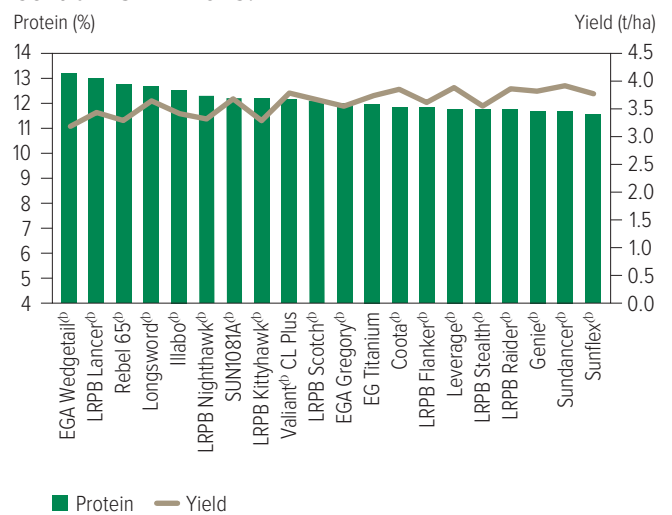


Figure 4: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from seven NVT sites in Central NSW in 2023.



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Figure 5: Protein (%) and yield (t/ha) comparisons for long season wheat varieties from two NVT sites in Central NSW in 2022.

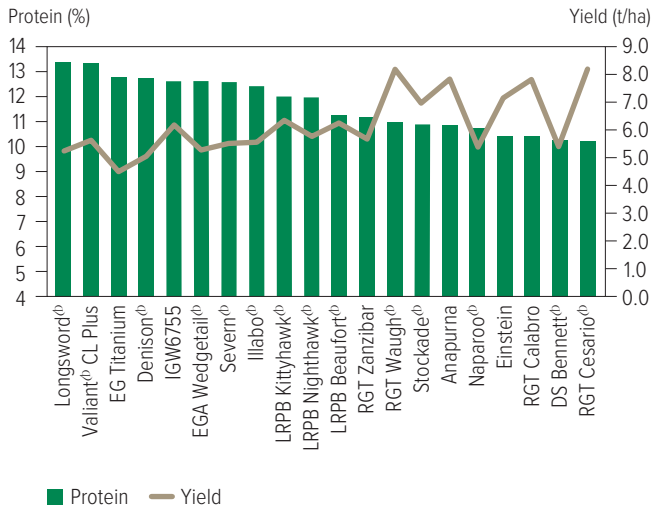
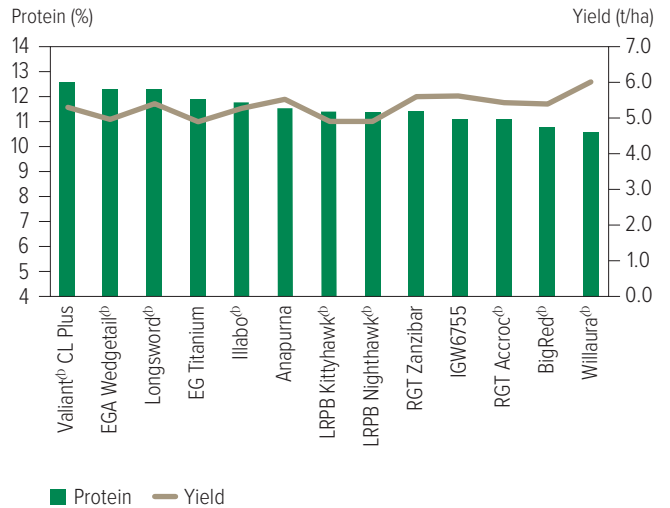


Figure 6: Protein (%) and yield (t/ha) comparisons for long season wheat varieties from three NVT sites in Central NSW in 2023.



Test weight comparisons

Figure 7: Test weight (kg/hL) comparisons for main season wheat varieties from 10 NVT sites in Central NSW in 2022.

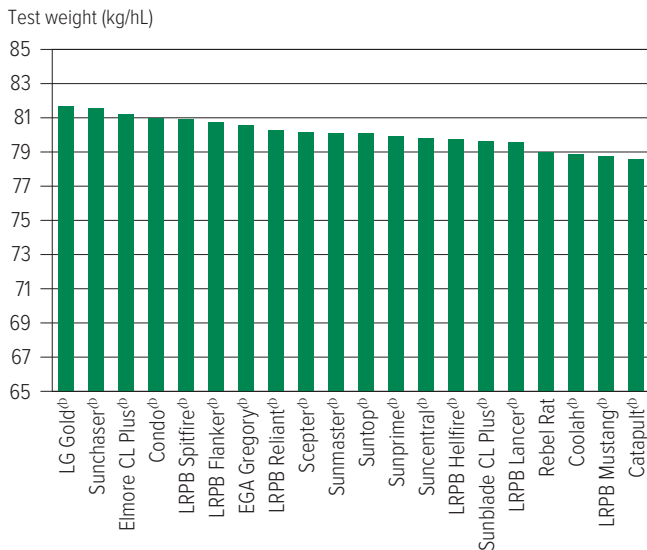


Figure 8: Test weight (kg/hL) comparisons for main season wheat varieties from nine NVT sites in Central NSW in 2023.

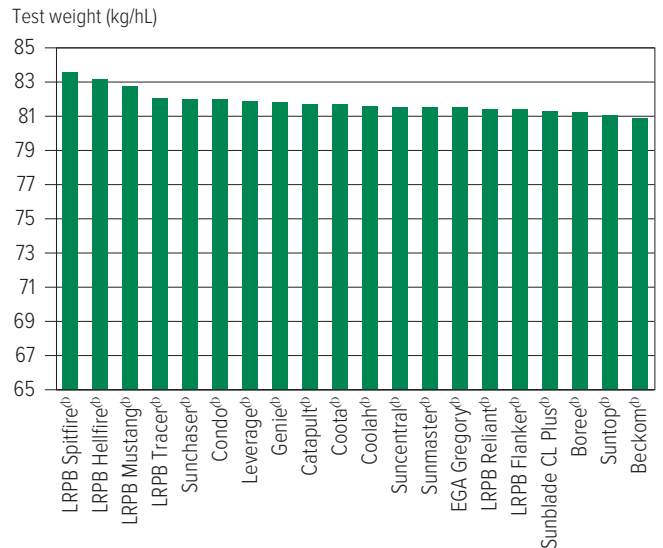


Figure 9: Test weight (kg/hL) comparisons for early season wheat varieties from seven NVT sites in Central NSW in 2022.

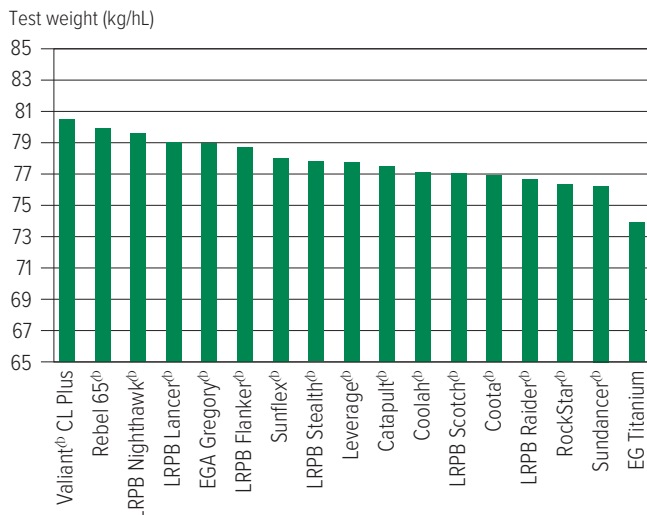


Figure 10: Test weight (kg/hL) comparisons for early season wheat varieties from seven NVT sites in Central NSW in 2023.



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Figure 11: Test weight (kg/hL) comparisons for long season wheat varieties from two NVT sites in Central NSW in 2022.

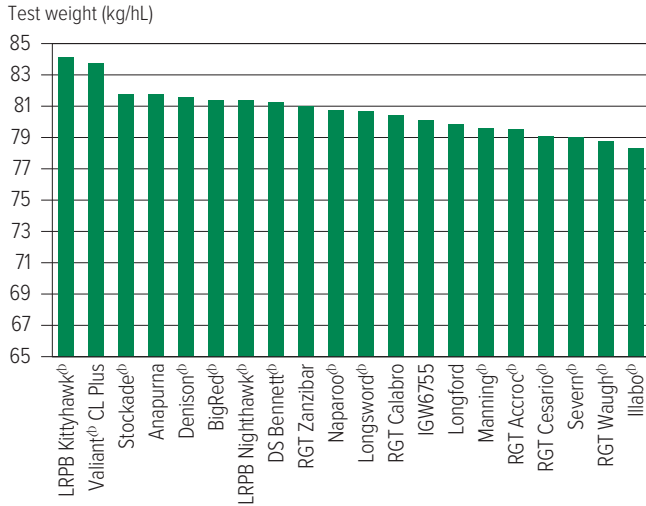
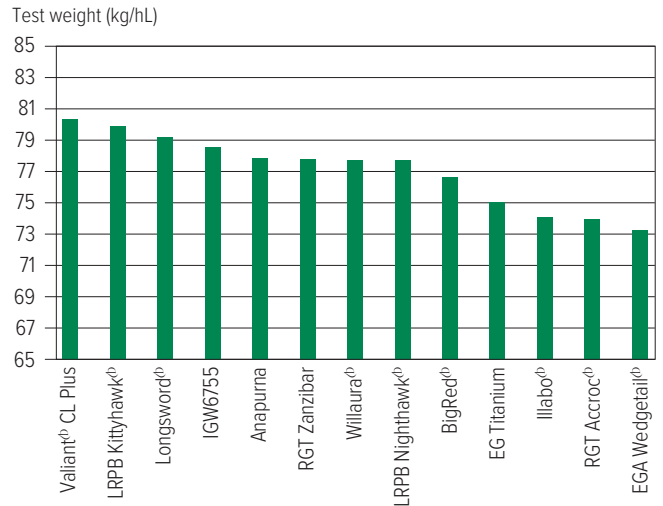


Figure 12: Test weight (kg/hL) comparisons for long season wheat varieties from three NVT sites in Central NSW in 2023.



Screenings comparisons

Figure 13: Screenings (<2.0mm) comparisons for main season wheat varieties from 10 NVT sites in Central NSW in 2022.

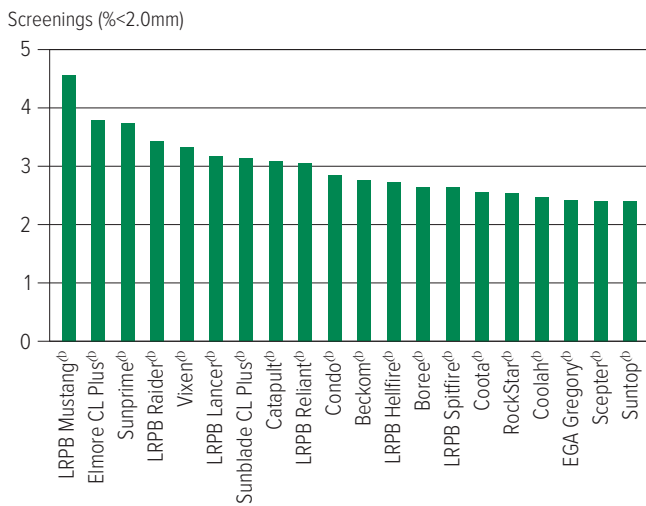


Figure 14: Screenings (<2.0mm) comparisons for main season wheat varieties from nine NVT sites in Central NSW in 2023.

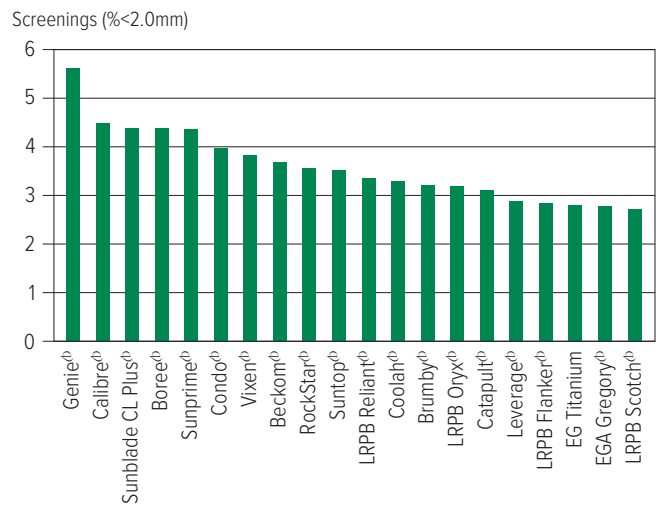


Figure 15: Screenings (<2.0mm) comparisons for early season wheat varieties from seven NVT sites in Central NSW in 2022.

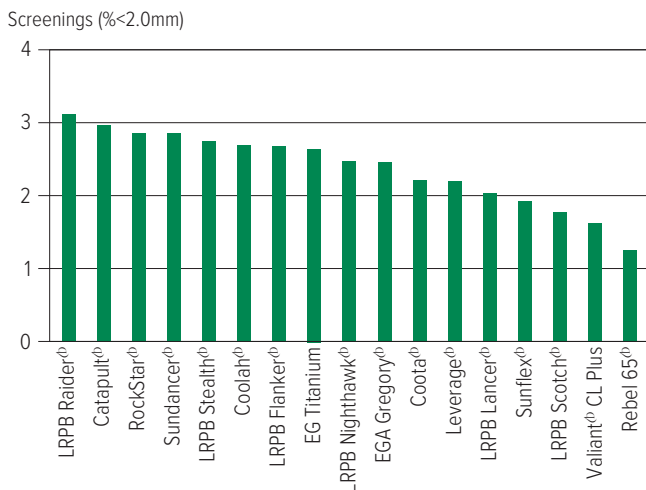


Figure 16: Screenings (<2.0mm) comparisons for early season wheat varieties from seven NVT sites in Central NSW in 2023.

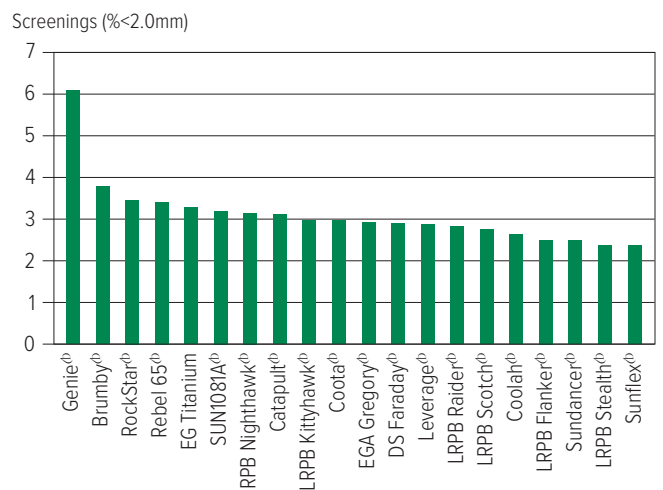


Figure 17: Screenings (<2.0mm) comparisons for long season wheat varieties from two NVT sites in Central NSW in 2022.

Screenings (%<2.0mm)

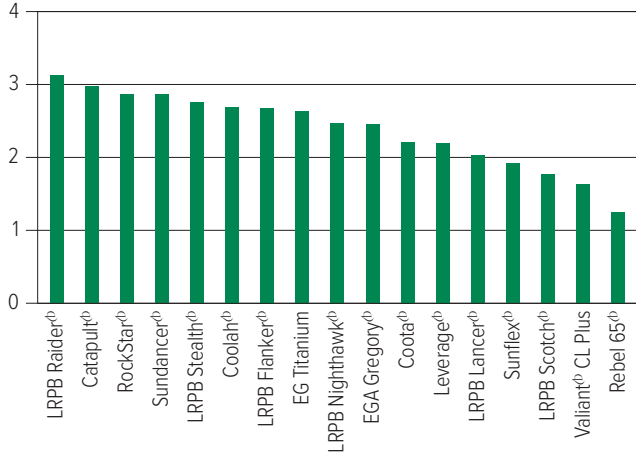
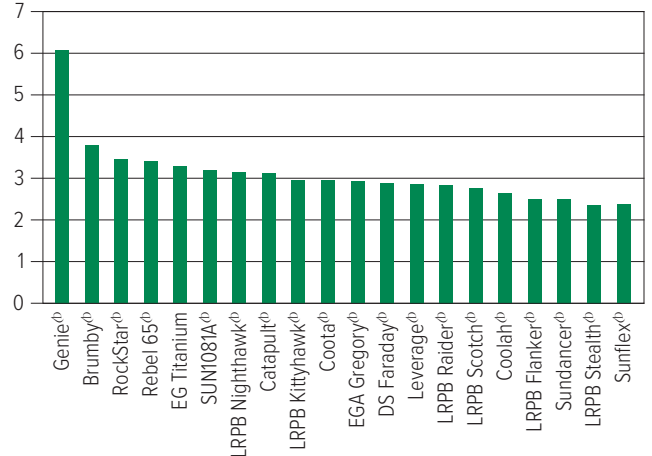


Figure 18: Screenings (<2.0mm) comparisons for long season wheat varieties from three NVT sites in Central NSW in 2023.

Screenings (%<2.0mm)



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Wheat variety disease ratings – New South Wales

The following tables contain 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 2024.

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

Table 23: Wheat disease guide for New South Wales.

Variety	Crown rot	Leaf rust	Stem rust	Stripe rust (east coast resistance)	Powdery mildew	Septoria tritici blotch	Yellow leaf spot	RLN resistance (<i>Pratylenchus thornei</i>)	RLN tolerance (<i>Pratylenchus thornei</i>)	RLN resistance (<i>Pratylenchus neglectus</i>)	RLN tolerance (<i>Pratylenchus neglectus</i>)	CCN	Black point*
Anapurna	SVS	MS	MSS	RMR	RMR	MRMS	MRMS	S (P)		MS		MRMS	
Ascot ^{db}	S	RMR	MRMS	MSS	S	S	MRMS	S	MI	S	MI	MR	
Ballista ^{db}	S	S	MR	MSS	SVS	SVS	MS	MRMS	MI	S	MTMI	MRMS	
Beckom ^{db}	S	MSS	MRMS	MRMS	S	S	MSS	MSS	TMT	S	MTMI	R	
BigRed ^{db}	MSS	MRMS	S	RMR	R	MR	MR	MS		MS		S	
Boree ^{db}	S	S	MR	SVS	VS	SVS	MRMS	MSS	MII	S	I	MSS	
Borlaug 100 ^{db}	MSS	MR	MR	SVS		MSS	MRMS	MS	TMT	S	T	MS	
Brumby ^{db}	S	SVS	MR	MS	MR/S	S	MRMS	MS (P)	MI	MRMS	TMT	MRMS	
Calibre ^{db}	S	S	MR	S	MSS	S	MRMS	MSS	MII	S	MT	MRMS	
Catapult ^{db}	MSS	S	MR	S	S	MSS	MRMS	MS	MT	S	MII	R	
Chief CL Plus ^{db}	MSS	MR	MR	SVS	SVS	S	MRMS	MSS	IVI	MRMS	MT	MS	
Condo ^{db}	S	S	MR	MRMS/MS	MR	S	MS	MS	TMT	S	MT	MR	
Coolah ^{db}	MSS	RMR	MR	MSS	S	MSS	MSS	MS	MT	S	MT	S	
Coota ^{db}	MSS	MR	RMR	S	S	S	MSS	MS	MTMI	MR	MI	MR	
Cutlass ^{db}	S	RMR	R	MSS	MSS	MSS	MSS	MSS	MI	MSS	MT	MR	
Denison ^{db}	MSS	S	MS	S	S	MSS	MRMS	S	MI	S	MII	MS	
DS Bennett ^{db}	VS	SVS	MS	S	R	MSS	MRMS	S		S		S	
DS Faraday ^{db}	MSS	RMR	RMR	MRMS		MSS	MSS	MSS	MT	S	MTMI	MS	
DS Pascal ^{db}	S	MRMS#	MSS	MRMS	RMR	MSS	MS	S	IVI	S	MTMI	S	
DS Tull ^{db}	S	MSS	MR	MS		SVS	S	MSS	MTMI	MSS	MT	MSS	
EG Jet ^{db}	S	S	S	MRMS	MSS	MSS	MRMS	S	I	S	MI	MRMS	
EG Titanium	MSS	MS	MS	MR	S	MSS	MSS	MSS	MTMI	MSS	MTMI	R	
EGA Gregory ^{db}	S	MR	MR	MS	RMR	MSS	S	MSS	MT	S	MT	S	
EGA Wedgetail ^{db}	S	MSS	MRMS	MS	MRMS	MSS	MSS	VS	MII	S	MII	S	
Einstein	S (P)	S	S	RMR		MSS	MR	S		MRMS		S	
Emu Rock ^{db}	MSS	SVS	MS	SVS	MSS	S	MS	S	IVI	MSS	MI	S	
Genie ^{db}		S (P)	MS (P)	MRMS (P)	SVS (P)	S (P)	MRMS (P)						
Hammer CL Plus ^{db}	MSS	S	MR	MS	S	MSS	MRMS	S	I	MSS	MTMI	MRMS	
Hyperno ^{db}	SVS	RMR	RMR	MR	RMR	MSS	MRMS	RMR	TMT	MS	MTMI	MS	
IGW6755	S	MS	MRMS	MSS	S	MSS	MRMS	MR	MI	MSS	I	MSS	
Illabo ^{db}	S	S	MRMS	MRMS	R	MSS	MS	MSS	MII	MSS	VI	MRMS	
Jandaroi ^{db}	VS	MR	MRMS	MRMS	MS	MSS	MRMS	MRMS	MTMI	MS	MII	MS	
Jillaroo ^{db}	S	S	MS	MSS	S	S	MS	MS (P)	MII	S	I	MS	
Jumbuck ^{db}		RMR (P)	MRMS (P)	MR (P)	MS (P)	MSS (P)	MS (P)						
Kingston ^{db}	S	S	S	MSS	S	S	MSS	MRMS	MTMI	S	MTMI	R	
Leverage ^{db}	S	RMR#	MR	MRMS	S	S	MRMS	MS	MT	S		MS (P)	
Longford	MSS	RMR	RMR	RMR	R	MRMS/S	MRMS	S		S		MS	
Longsword ^{db}	MSS	MS	MR	MRMS/MS	MSS	MS	MRMS	MRMS	MI	MRMS	VI	MRMS	
LRPB Anvil ^{db} CL Plus	MSS	SVS	MR	S	SVS	VS	MSS	S	VI	MSS	MII	MS	
LRPB Avenger ^{db}	S	S	MS	S	SVS	S	MS	MRMS	MI	MSS	MI	MRMS	
LRPB Beaufort ^{db}	S	MSS	SVS	RMR	RMR	S	MRMS	MSS	MT	MS	MI	MS	

Continued on next page

Table 23: Wheat disease guide for New South Wales (continued).

Variety	Crown rot	Leaf rust	Stem rust	Stripe rust (east coast resistance)	Powdery mildew	Septoria tritici blotch	Yellow leaf spot	RLN resistance (Pratylenchus thornei)	RLN tolerance (Pratylenchus thornei)	RLN resistance (Pratylenchus neglectus)	RLN tolerance (Pratylenchus neglectus)	CCN	Black point*
LRPB Flanker ^{db}	MSS	RMR	MR	MRMS	MR (P)	MSS	MSS	MSS	MT	S	MT	S	
LRPB Hellfire ^{db}	MSS	MSS	MR	MR	SVS	S	MSS	MSS	MI	MSS	MTMI	MS	
LRPB Impala ^{db}	MSS	SVS	MR	MRMS	R	SVS	MSS	S	MII	SVS	MTMI	MSS	
LRPB Kittyhawk ^{db}	SVS	MR	MRMS (S)	MR	MS	MRMS	MRMS	S	I	S	MI	S	
LRPB Lancer ^{db}	MSS	RMR	R	RMR	R	MS	MS	MS	TMT	S	MTMI	S	
LRPB Major ^{db}	S	MR#	MRMS	MRMS	MS	MSS	MS	MSS	MTMI	MSS		MRMS (P)	
LRPB Matador ^{db}	S	MSS	MS	MS	MS	S (P)	MRMS	MRMS	MT	S		MS (P)	
LRPB Mustang ^{db}	MSS	MSS	MRMS	MR	MSS	S	MSS	MSS	MTMI	S	MI	MR	
LRPB Nighthawk ^{db}	MSS	MSS	RMR	MR	SVS	MS	MS	MS	MI	MSS	IVI	MS	
LRPB Oryx ^{db}	MSS	RMR#	MR	MS	MR	SVS	MSS	MSS	IVI	MSS	MII	S	
LRPB Parakeet ^{db}	MSS	R	MR	MR	SVS	SVS	MSS	S	MII	MRMS	MT	MS	
LRPB Raider ^{db}	S	RMR	RMR	MR	MSS	S	MSS	MS	TMT	MSS	MTMI	S	
LRPB Reliant ^{db}	MS	RMR	R	MR	MR (P)	MSS	S	MSS	TMT	SVS	MTMI	MSS	
LRPB Scotch ^{db}	S	MR#	MSS	MRMS	MR	S	MRMS	S	MI	MS	MTMI	MS	
LRPB Spitfire ^{db}	MS	S	MR	MRMS	MR	S	S	MS	MTMI	MSS	MI	MS	
LRPB Stealth ^{db}	MSS	RMR#	R	RMR	MRMS	MSS	MS	S	MTMI	MSS	MTMI	S	
LRPB Tracer ^{db}		MR# (P)	MS (P)	MR (P)	MSS (P)	S (P)	S (P)						
LRPB Trojan ^{db}	MS	MR#	MRMS	S	S	S	MSS	MSS	MI	MSS	MT	MS	
Mace ^{db}	S	S	MRMS	SVS	MSS	SVS	MRMS	MS	MT	MS	MII	MRMS	
Manning ^{db}	VS	MSS	MR	RMR	MS	MRMS/S	MRMS	S		MSS		S	
Naparoo ^{db}	S	MS	MRMS	MRMS	R	S	MRMS	S	MI	SVS	I		
Razor CL Plus ^{db}	S	S	MRMS	MRMS	MSS	SVS	MSS	MS	MI	S	MT	MR	
Rebel 65 ^{db}	S	MRMS	MSS	MS		SVS	MSS	MRMS	TMT	S	TMT	MSS	
Rebel Rat	MSS	MRMS#	MRMS	MS	VS	MSS	MRMS	MSS	MT	S	T	MRMS	
Reilly ^{db}	S	MSS	MRMS	MS	MSS	S	S	MSS	MTMI	MS	MTMI	R	
RGT Accroc ^{db}	SVS	SVS	MS	RMR	MSS	MS	MRMS	MSS		MS		S	
RGT Calabro	SVS	MSS	MS	RMR	RMR	MRMS	MR	MS		S	VI	S	
RGT Cesario ^{db}	VS	RMR	RMR	RMR	RMR	MRMS	MR	MSS		MRMS		MSS (P)	
RGT Waugh ^{db}	S	S	MS	RMR	R	MRMS#	MRMS	MSS		MSS		MS	
RGT Zanzibar	S	SVS	VS	MR	RMR	MSS	MS	MS (P)	MI	S	IVI	MSS	
RockStar ^{db}	S	S	MRMS	S	SVS	S	MRMS	MS	MI	MRMS	I	MSS	
Scepter ^{db}	MSS	MSS	MRMS	MSS	SVS	S	MRMS	MSS	MT	S	MTMI	MRMS	
SEA Condamine	MSS	RMR	MRMS	MSS		VS	MSS	MS	MT	S	MT	S	
SEA Peel	MSS	RMR	MR#	MR	MSS	MSS	MS	MRMS	MI	MSS		MS	
SEA Stockman	S	MR	MS	MRMS	SVS	MSS	MSS	S	MTMI	MSS		S	
Severn ^{db}	S	MRMS	MS	RMR	R	MSS	MRMS	MRMS		S		MSS (P)	
Sheriff CL Plus ^{db}	S	SVS	MS	SVS	SVS	S	MRMS	MRMS	I	MRMS	MTMI	MS	
Sting ^{db}	MSS	SVS	MRMS	S	SVS	SVS	MRMS	MS	MTMI	MS	MTMI	MS	
Stockade ^{db}	S	MR	MS	MR	SVS	MS	MRMS	MSS	MTMI	S	MT	MRMS	
SUN1081A ^{db}	MS	MR#	MRMS	MR	S	S	MRMS	MRMS	TMT	S		MS (P)	
Sunblade CL Plus ^{db}	S	MSS	MS	MRMS	S	S	MSS	MRMS	MT	MSS	MI	MSS	
Suncentral ^{db}	MSS	RMR	MRMS		SVS	S	MSS	MRMS	MT	MRMS	MI	S	
Sunchaser ^{db}	MSS	R	MR		VS	MSS	MS	MSS	MT	MSS	MTMI	MSS	
Sundancer ^{db}	MSS	RMR	MR	MR	S	MSS	MS	MS	MT	MSS		MS (P)	
Sunflex ^{db}	MSS	RMR#	MR	MRMS	S	SVS	MS	MSS	MI	S	MI	MS	
Sunmaster ^{db}	MSS	RMR	MS	MRMS	MSS	S	MSS	MS	TMT	MRMS	MTMI	MSS	
Sunmax ^{db}	MSS	MS	MRMS	RMR	S	MSS	MSS	MS	MI	S	MT	MRMS	
Sunprime ^{db}	MSS	MR#	MS	MS		S	MSS	S	MTMI	S	MTMI	MS	
Suntop ^{db}	MSS	MR	MRMS	MRMS	S	MSS	MSS	MRMS	TMT	S	MT	S	

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Table 23: Wheat disease guide for New South Wales (continued).

Variety	Crown rot	Leaf rust	Stem rust	Stripe rust (east coast resistance)	Powdery mildew	Septoria tritici blotch	Yellow leaf spot	RLN resistance (<i>Pratylenchus thornei</i>)	RLN tolerance (<i>Pratylenchus thornei</i>)	RLN resistance (<i>Pratylenchus neglectus</i>)	RLN tolerance (<i>Pratylenchus neglectus</i>)	CCN	Black point*
Tomahawk CL Plus ^{db}	S	S	MR	MSS	SVS	S (P)	MRMS	MS	TMT	S		MRMS (P)	
Valiant ^{db} CL Plus	MSS	S	MR	S	VS	MSS	MRMS	S (P)	IVI	S	MII	MSS (P)	
Vixen ^{db}	S	SVS	MRMS	SVS	SVS	S	MRMS	MS	I	MRMS	I	MSS	
Willaura ^{db}	S	MRMS	MR	S	SVS	S	MS	MRMS	MTMI	MSS	MII	MS	
Yitpi	S	S	S	MS	MS	S	SVS	S		MSS	MI	MR	
DURUM													
Caparoi ^{db}	VS	RMR	MR	MS	S	MRMS/S	MR	MR	MT	MS	MI	MRMS (P)	
DBA Bindaroi ^{db}	SVS	MR	MR	MS	MSS	MS	MS	MR	MTMI	MRMS	MI	MS	
DBA Lillaroi ^{db}	SVS	RMR	RMR	MS	MS	S	MRMS	RMR	MT	MRMS	MI	S	
DBA Mataroi ^{db}	SVS	MR	MRMS	MS	S	MSS	MRMS	RMR	MI	MS	MT	MRMS	
DBA Spes	VS	RMR	R	MS	MSS	S	MRMS	RMR	MI	MRMS	MTMI	MS	
DBA Vittaroi ^{db}	SVS	RMR	MR	MS	MS	MSS	MRMS	MR	MI	MS	I	S	
DBA-Artemis ^{db}	SVS	RMR	MR	MRMS	S	MRMS/S	MRMS	MR	MTMI	MS	MII	MS	
DBA-Aurora ^{db}	SVS	RMR	RMR	MRMS	MSS	MRMS/S	MRMS	RMR	MT	MRMS	MI	MSS	
Patron ^{db}	SVS	MR#	RMR	MRMS	MSS	MRMS	MRMS	MR	MT	MRMS	T	S	
Westcourt ^{db}	VS	RMR	RMR	MR	S	S	MRMS	MR	MT	MS	MI	MSS	

* ratings will be updated when available. Learn more via the [NVT Disease Ratings](#).

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

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

(P) = provisional rating, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes, () show outlier.

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New barley varieties

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

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

* EPR amount is ex-GST, [®] denotes Plant Breeder's Rights apply. ¹ All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder.

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

Barley variety yield performance – Central New South Wales

Yield results are presented from the top-performing varieties within each NVT location in the region for the past five seasons. Results are presented (as a percentage) for each variety relative to the mean trial yield for the location within each year. Varieties are listed in descending order of average yield over the period. The Long Term Yield Reporter provides additional information on varieties not listed and can be viewed as a table or chart with error bars. Rainfall is provided for January to March (J–M) and April to October (A–O) and, where relevant, irrigation from April to October.

Table 1: Condobolin main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.37	4.53	5.28	5.78	
Combat ^{db}			121	106	
Spinnaker ^{db}				113	
Cyclops ^{db}		104	111	103	
RGT Planet ^{db}	111	107	101	114	
Minotaur ^{db}		102	104	110	
Rosalind ^{db}	130	98	104	108	
Zena ^{db} CL*			99	112	
Leabrook ^{db}	115	100	110	97	
Titan AX ^{db*}				93	
Beast ^{db}	119	95	108	95	
Buff ^{db}	89	108	109	90	
Fathom ^{db}	106	100	107	93	
Laperouse ^{db}	116	95	100	100	
Bottler ^{db}	94	99	94	107	
Yeti ^{db}	127	89	98	102	
Sowing date	23 May	25 May	26 May	15 Jun	3 Jun
Rainfall J–M (mm)	68	229	373	184	157
Rainfall A–O (mm)	69	396	252	581	111

Special thanks to 2023 trial cooperator.
 * herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 2: Gilgandra main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.20	3.98	7.01	5.83	2.64
Spinnaker ^{db}				108	103
Neo ^{db} CL*					102
Combat ^{db}			105	106	106
Minotaur ^{db}		112	106	104	96
RGT Planet ^{db}	97	102	110	106	101
Zena ^{db} CL*			107	103	99
Yeti ^{db}	129	103	94	102	111
Leabrook ^{db}	110	98	98	100	107
Cyclops ^{db}		109	97	97	102
Titan AX ^{db*}				101	105
Rosalind ^{db}	101	102	97	99	106
Laperouse ^{db}	115	102	94	100	105
Beast ^{db}	116	100	94	98	110
Bottler ^{db}	92	99	101	100	99
Maximus ^{db} CL*	113	105	89	97	105
Sowing date	17 May	19 May	18 May	24 May	17 May
Rainfall J–M (mm)	99	307	394	180	191
Rainfall A–O (mm)	49	431	325	586	131

Special thanks to 2023 trial cooperator.
 * herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 3: Goonumbla main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		5.14	6.80	5.65	3.85
Spinnaker ^{db}				114	103
RGT Planet ^{db}		106	117	116	104
Zena ^{db} CL*			117	113	102
Neo ^{db} CL*					103
Combat ^{db}			102	103	103
Bottler ^{db}		101	105	104	100
Minotaur ^{db}		98	106	103	101
Rosalind ^{db}		101	107	100	99
Alestar ^{db}		99	102	101	98
Cyclops ^{db}		96	107	97	98
Leabrook ^{db}		102	97	98	101
Commander ^{db}		99	90	96	99
Yeti ^{db}		100	94	90	99
Beast ^{db}		99	92	91	99
Laperouse ^{db}		98	94	90	97
Sowing date	27 May	18 May	20 May	24 May	23 May
Rainfall J–M (mm)	92	211	241	178	187
Rainfall A–O (mm)	114	541	277	358	179

Special thanks to 2023 trial cooperator.
 * herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 4: Merriwa main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		5.35	3.21	5.13	
Spinnaker ^{db}			115	119	
Zena ^{db} CL*			111	117	
RGT Planet ^{db}		101	106	119	
Minotaur ^{db}			98	95	
Maximus ^{db} CL*		114	113	88	
Rosalind ^{db}		99	113	103	
Combat ^{db}			93	102	
Cyclops ^{db}	No trial	108	112	91	No trial
Bottler ^{db}		97	106	106	
Laperouse ^{db}		110	103	93	
Yeti ^{db}		110	100	93	
Alestar ^{db}		90	109	105	
Leabrook ^{db}		95	97	99	
Spartacus CL ^{db*}		102	112	82	
La Trobe ^{db}		97	106	82	
Sowing date		28 May	26 May	17 Jun	
Rainfall J–M (mm)		354	286	301	
Rainfall A–O (mm)		411	251	600	

No 2023 trial cooperator.
 * herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

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Table 5: Nyngan main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)			4.25	5.74	0.77
Spinnaker ^{db}	No trial	Trial failed		115	110
Combat ^{db}			110	108	132
Neo ^{db} CL*					100
RGT Planet ^{db}			110	112	90
Yeti ^{db}			101	102	164
Minotaur ^{db}			102	107	109
Zena ^{db} CL*			104	108	84
Leabrook ^{db}			103	101	126
Rosalind ^{db}			96	103	131
Beast ^{db}			97	98	156
Titan AX ^{db*}				97	113
Cyclops ^{db}			90	103	145
Laperouse ^{db}			97	98	130
Bottler ^{db}			99	101	90
Maximus ^{db} CL*			88	96	147
Sowing date		9 Jun	12 May	26 May	8 Jun
Rainfall J–M (mm)		66	240	125	95
Rainfall A–O (mm)		212	181	593	114

Special thanks to 2023 trial cooperator.

* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 6: Quandialla main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.00	5.08	4.33	5.25	3.41
Neo ^{db} CL*					100
Minotaur ^{db}		119	105	107	109
Combat ^{db}			108	111	104
Spinnaker ^{db}			114	112	96
Cyclops ^{db}		116	102	103	113
RGT Planet ^{db}	96	112	116	111	93
Rosalind ^{db}	132	113	106	104	104
Zena ^{db} CL*			115	109	94
Fandaga ^{db}			111	112	93
Maximus ^{db} CL*	130	111	96	92	115
Laperouse ^{db}	112	108	93	98	113
Yeti ^{db}	130	107	91	99	110
Spartacus CL ^{db*}	126	105	99	91	111
La Trobe ^{db}	124	100	102	92	106
Bottler ^{db}	84	100	104	105	92
Sowing date	25 May	11 May	18 May	24 May	9 May
Rainfall J–M (mm)	185	175	262	197	178
Rainfall A–O (mm)	120	435	373	590	194

Special thanks to 2023 trial cooperator, Steve Kelly.

* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 7: Wongarbron main season barley.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		5.02	7.03	5.96	1.67
Spinnaker ^{db}	Trial failed		108	114	100
Minotaur ^{db}			106	102	99
Neo ^{db} CL*					102
Combat ^{db}			106	103	118
RGT Planet ^{db}		98	110	115	91
Cyclops ^{db}		115	101	101	108
Zena ^{db} CL*			106	113	87
Yeti ^{db}		120	96	91	137
Rosalind ^{db}		106	99	102	110
Maximus ^{db} CL*		129	88	86	124
Laperouse ^{db}		119	92	90	121
Leabrook ^{db}		97	101	99	115
Beast ^{db}		100	99	95	126
Bottler ^{db}		97	100	104	93
Spartacus CL ^{db*}		114	91	89	120
Sowing date	21 May	14 May	19 May	25 May	13 Jun
Rainfall J–M (mm)	173	331	364	227	125
Rainfall A–O (mm)	89	516	345	751	161

Special thanks to 2023 trial cooperator.

* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Barley variety quality – Central New South Wales

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

The following figures show the grain quality trends as histograms from 2022 and 2023 NVT averaged for trials in the Central New South Wales region. Only the varieties evaluated at every site are included. These are plotted in order of performance, up to a maximum of 20.

Protein and yield comparisons

Figure 1: Protein (%) and yield (t/ha) comparisons for main season barley varieties from seven NVT sites in Central NSW in 2022.

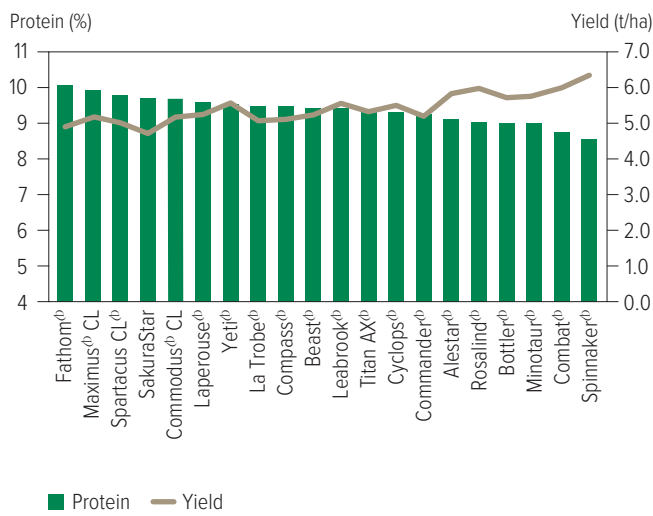
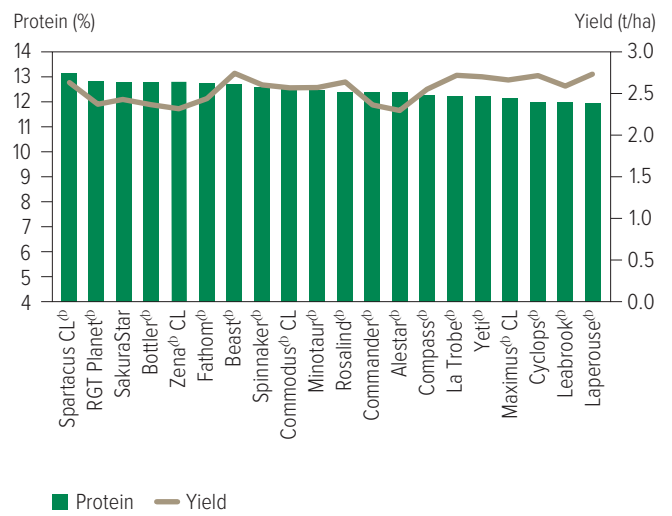


Figure 2: Protein (%) and yield (t/ha) comparisons for main season barley varieties from five NVT sites in Central NSW in 2023.



Test weight comparisons

Figure 3: Test weight (kg/hL) comparisons for main season barley varieties from seven NVT sites in Central NSW in 2022.

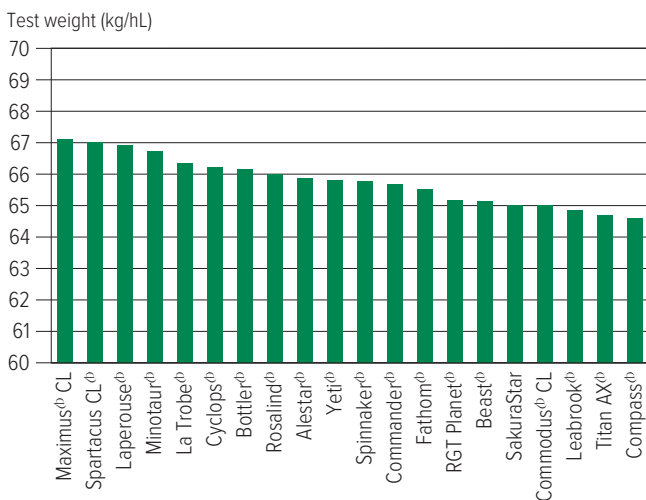
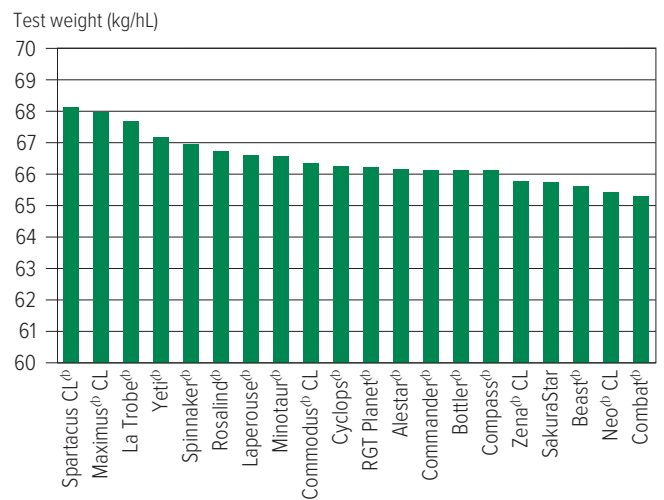


Figure 4: Test weight (kg/hL) comparisons for main season barley varieties from five NVT sites in Central NSW in 2023.



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Screenings comparisons

Figure 5: Screenings (<2.2mm) comparisons for main season barley varieties from seven NVT sites in Central NSW in 2022.

Screenings (%<2.2mm)

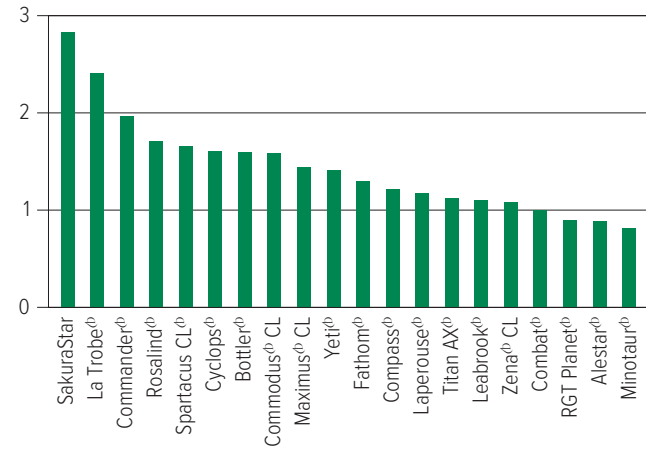
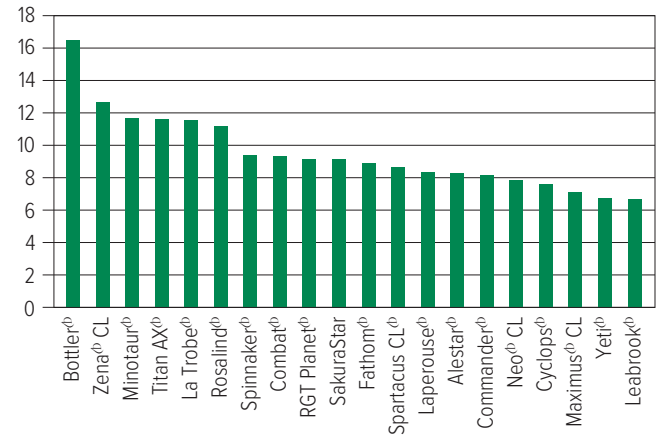


Figure 6: Screenings (<2.2mm) comparisons for main season barley varieties from five NVT sites in Central NSW in 2023.

Screenings (%<2.2mm)



Retention comparisons

Figure 7: Retention (>2.5mm) comparisons for main season barley varieties from seven NVT sites in Central NSW in 2022.

Retention (%>2.5mm)

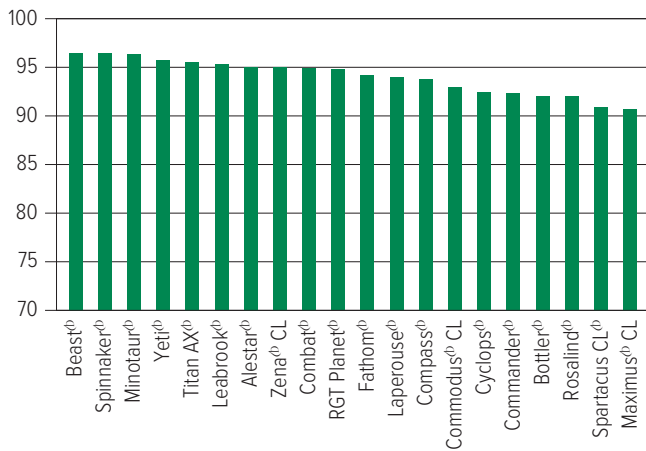
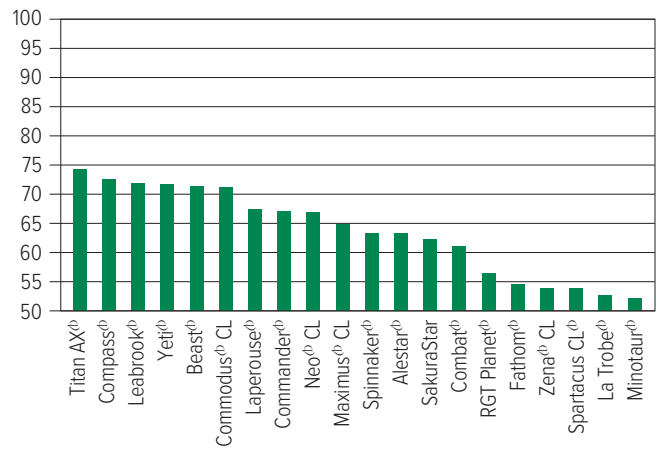


Figure 8: Retention (>2.5mm) comparisons for main season barley varieties from five NVT sites in Central NSW in 2023.

Retention (%>2.5mm)



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Barley variety disease ratings – New South Wales

The following tables contain 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 2024.

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

Table 8: Barley disease guide for New South Wales.

Variety	Leaf scald	Net form net blotch*	Spot form net blotch	Powdery mildew	Leaf rust	Barley grass stripe rust (BGYR)	Crown rot	CCN	RLN resistance (<i>Pratylenchus thornei</i>)	RLN tolerance (<i>Pratylenchus thornei</i>)	RLN resistance (<i>Pratylenchus neglectus</i>)	RLN tolerance (<i>Pratylenchus neglectus</i>)	Ramularia
Alestar ^{db}	SVS		S	MR	MRMS	R	S	R^ (P)	MR	MTMI	MR	I	SVS
Banks ^{db}	S		S	MS	S	R	MSS	S	MR	TMT	MS	MII	VS
Bass ^{db}	S		MSS	S	SVS	R	MSS	S	MRMS	MTMI	MS	I	VS
Beast ^{db}	SVS		MS	S	S	R	S	MR	MRMS	TMT	MRMS	MI	SVS
Bottler ^{db}	SVS		MSS	RMR	MRMS	R	SVS		RMR	MI	MS	MT	SVS
Buff ^{db}	SVS		MSS	S	SVS	R	S		MS	MI	MRMS	MT	SVS
Combat ^{db}	MSS		MR	MS	S	R	S	MR	MS	TMT	MRMS		SVS
Commander ^{db}	SVS		MSS	MSS	SVS	R	S	R	MRMS	MT	MRMS	MTMI	SVS
Commodus ^{db} CL	SVS		MSS	MSS	S	R	S	R	MRMS	MTMI	MRMS	TMT	SVS
Compass ^{db}	S		MS	S	S-SVS	R	MSS	R	MR	TMT	MRMS	TMT	SVS
Cyclops ^{db}	S		MS	SVS	S	R	MSS	S	MRMS	MI	MRMS	MI	SVS
Fairview ^{db}	SVS		S	R	S	R	MSS		MR	MI	MR		SVS
Fandaga ^{db}	S		S	R	MR	RMR-SVS	MSS	R	MR	TMT	MR		VS
Fathom ^{db}	S		MR	MRMS	MS	R-MSS	SVS	R	MR	MT	MRMS	T	SVS
Flinders ^{db}	S		S	RMR	MSS	R	MSS	S	MR	MTMI	MRMS		SVS
Keel	SVS		MR	S	SVS	R	S	R	MRMS	MII	MS		SVS
Kiwi	SVS		MSS	RMR	MS	R	MSS	S	RMR	MTMI	MRMS	MI	VS
La Trobe ^{db}	SVS		S	MSS	MS	R	S	R	MRMS	MT	MRMS	MT	SVS
Laperouse ^{db}	SVS		MRMS	MSS	SVS	RMR-S	S	S	MR	MTMI	MRMS	MI	VS
Leabrook ^{db}	SVS		MS	S	SVS	R	S	RMR	RMR	TMT	MRMS	MT	VS
Litmus ^{db}	VS		S	MS	SVS	R	S	MS	MRMS	IVI	MS	MTMI	VS
Maximus ^{db} CL	S		MS	S	MSS	R	S	R	MRMS	MI	MRMS	MT	VS
Minotaur ^{db}	VS		S	S	SVS	R	MSS	R	MRMS	TMT	MRMS	MI	SVS
Neo ^{db} CL	S (P)		MR (P)	RMR (P)	S (P)	RMR-MSS (P)		R	MR (P)		RMR (P)		SVS (P)
RGT Planet ^{db}	MSS		SVS	RMR	MR	RMR-MS	MSS	R (P)	MR	MI	MRMS	MT	SVS
Rosalind ^{db}	MSS		MSS	MSS	MR	R	S	R	MRMS	TMT	MRMS	MT	VS
SakuraStar	SVS		MSS	MSS	S	R	S	R	MR	MTMI	MR	MT	SVS
Scope CL ^{db}	SVS		MSS	MRMS	MRMS-SVS	R-MS	S	S	MRMS	MI	MRMS	MI	SVS
Spartacus CL ^{db}	VS		S	MSS	MS	R	S	R	MRMS	MI	MRMS	MII	VS
Spinnaker ^{db}	S		S	RMR	MS	R-MS	S	S	MS	MTMI	MR		VS
Titan AX ^{db}	SVS		MSS	MSS	SVS	R	S	MR (P)	MR	TMT	MR		VS
Topstart	S		S	RMR	MRMS	R	MSS	S	RMR	MI	RMR	I	SVS
Urambie	MSS		S	MS	MSS	R	MSS		MR	I	MRMS	IVI	VS
Westminster ^{db}	MSS		S	RMR	MR	R	MSS		MS	I	MRMS	IVI	SVS
Yeti ^{db}	VS		MRMS	S	SVS	R	S	RMR	MR	MT	MR	TMT	VS
Zena ^{db} CL	MSS		MSS	RMR	MSS	R-MS	S	R	MR	MT	MRMS		VS

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

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New oat varieties

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

Variety	Breeding company	End point royalty* (\$)	Comments supplied by breeding company ¹
Archer [Ⓛ]	InterGrain	TBC	Variety description not supplied.
Kingbale [Ⓛ]	InterGrain	TBC	Variety description not supplied.
Wallaby [Ⓛ]	InterGrain	TBC	Variety description not supplied.

* EPR amount is ex-GST, [Ⓛ] denotes Plant Breeder's Rights apply. ¹ All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder.

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

Oat variety yield performance – Central New South Wales

Yield results are presented from the top-performing varieties within each NVT location in the region for the past five seasons. Results are presented (as a percentage) for each variety relative to the mean trial yield for the location within each year. Varieties are listed in descending order of average yield over the period.

The Long Term Yield Reporter provides additional information on varieties not listed and can be viewed as a table or chart with error bars. Rainfall is provided for January to March (J–M) and April to October (A–O) and, where relevant, irrigation from April to October.

Table 1: Canowindra/Cowra oat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.15	4.36	6.10	6.02	
Koala ^{db}	96	117	113	110	Trial failed
13008-18				113	
Bannister ^{db}	106	109	111	109	
Williams ^{db}	114	108	104	105	
Bilby ^{db}	107	98	106	104	
Kowari ^{db}	101	93	98	98	
Possum	93	96	97	97	
Mitika ^{db}	98	92	93	94	
Durack ^{db}	94	83	79	84	
Yallara ^{db}	97	88	74	83	
Sowing date	26 May	19 May	17 May	18 May	
Rainfall J–M (mm)	131	151	330	229	182
Rainfall A–O (mm)	145	542	451	582	261

Special thanks to 2023 trial cooperators.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 2: Condobolin oat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.09	3.85	4.85	5.88	
Koala ^{db}	68	105	109	115	Trial failed
13008-18				109	
Bannister ^{db}	97	105	104	110	
Bilby ^{db}	122	104	99	103	
Williams ^{db}	115	103	100	104	
Kowari ^{db}	116	100	97	97	
Possum	94	98	100	97	
Mitika ^{db}	108	97	96	92	
Durack ^{db}	101	91	93	80	
Yallara ^{db}	78	89	94	77	
Sowing date	23 May	22 May	26 May	15 Jun	
Rainfall J–M (mm)	68	229	373	184	157
Rainfall A–O (mm)	69	396	252	581	111

Special thanks to 2023 trial cooperators.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 3: Quandialla oat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	0.93	3.73	4.43	5.05	2.21
13008-18				109	112
Bannister ^{db}	110	109	109	112	105
Koala ^{db}	94	99	112	117	101
Archer ^{db*}					102
Williams ^{db}	84	107	108	110	105
Bilby ^{db}	115	107	101	103	102
Kowari ^{db}	111	102	95	95	99
Mitika ^{db}	100	97	93	91	98
Yallara ^{db}	104	108	93	75	103
Durack ^{db}	103	98	87	77	98
Sowing date	25 May	11 May	18 May	9 May	9 May
Rainfall J–M (mm)	185	175	262	197	178
Rainfall A–O (mm)	120	435	373	590	194

Special thanks to 2023 trial cooperators, Steve Kelly.
* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

Table 4: Wellington oat.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		4.22	5.52	6.75	1.60
Archer ^{db*}					83
13008-18				109	119
Koala ^{db}		107	110	116	91
Williams ^{db}		112	115	105	98
Bannister ^{db}		108	110	110	101
Bilby ^{db}		102	99	100	105
Kowari ^{db}		96	94	95	105
Yallara ^{db}		95	101	85	113
Wallaby ^{db}					67
Mitika ^{db}		94	93	92	102
Sowing date	2 May	19 May	17 May	19 May	8 Jun
Rainfall J–M (mm)	157	365	289	286	73
Rainfall A–O (mm)	130	429	292	731	133

Special thanks to 2023 trial cooperators.
* herbicide-tolerant variety. Learn more via the [NVT Long Term Yield Reporter](#)

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Oat variety disease ratings – New South Wales

The following tables contain 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 2024.

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

Table 5: Oat disease guide for New South Wales.

Variety	Stem rust*	Leaf rust (crown rust) (northern NSW)*	Leaf rust (crown rust) (southern NSW)*	Barley yellow dwarf virus (BYDV)	Septoria blotch	Red leather leaf	Bacterial blight
Archer ^{db}				MSS (P)	MRMS (P)	SVS (P)	MSS (P)
Bannister ^{db}				MS	MSS	MSS-SVS	S
Billby ^{db}				S	S	MS	SVS
Brusher ^{db}				S	MSS	MS	SVS
Carrolup				SVS	MSS	SVS	MSS
Durack ^{db}				S	S	SVS	S
Echidna				MSS	SVS	MSS	S
Goldie ^{db}				MS	MS	SVS	S
Kingbale ^{db}				MS	MSS	S (P)	MSS (P)
Koala ^{db}				MSS	MSS	S	S
Kojonup ^{db}				MS	MSS	S	SVS
Kowari ^{db}				S	S	S	S
Kultarr ^{db}				MSS (P)	MS (P)	S (P)	MS (P)
Mitika ^{db}				SVS	SVS	SVS	S
Mulgara ^{db}				MSS	S/MS	SVS	MSS
Tungoo ^{db}				MSS	MRMS#	MRMS	S
Wallaby ^{db}				MS (P)	MS (P)	SVS (P)	MSS (P)
Wandering				MSS	MSS	S	S
Williams ^{db}				MSS	MSS	MS	MSS
Wintaroo				MS	MS#	S	S
Yallara ^{db}				S	MSS	SVS	S

* ratings will be updated when available. Learn more via the [NVT Disease Ratings](#).

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

(P) = provisional rating, - hyphen indicates a range, / indicates pathotype differences, # warning, may be more susceptible to alternate pathotypes.

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New canola varieties

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

Variety	Breeding company	End point royalty* (\$)	Comments supplied by breeding company ¹
DG Avon TT [Ⓣ]	Nutrien Ag Solutions Ltd	TBC	Early, determinant, short TT open pollinated variety suited to low-medium rainfall zones.
DG Drummond TF	Nutrien Ag Solutions Ltd	N/A	DG Drummond TF is a tall, mid-late maturing, glyphosate-tolerant hybrid with group H blackleg resistance. DG Drummond TF is suited to medium to high-rainfall areas.
Hyola® Continuum CL	Advanta Seeds	N/A	An early-mid maturity Clearfield® hybrid, Continuum CL provides wide environmental adaptability with excellent grain oil potential. It exhibits strong yields in target environments and demonstrates excellent adaptability to growing regions with a range of 1.0–5.5 t/ha. Continuum CL showcases an exceptionally high level of early plant vigour, high lodging resistance, and an outstanding blackleg rating of 'R' due to its distinctive tri-group resistance, ADF.
Hyola® Defender CT	Advanta Seeds	N/A	A mid-season maturity CT hybrid, Defender CT delivers remarkable grain yield, robust plant vigour and a very high grain oil content. Defender CT performance is closely aligned with the renowned Hyola® Blazer TT variety. Defender CT offers uniform flowering, manageable height for direct harvesting and an exceptional blackleg rating of 'R' due to its distinctive tri-group resistance, ADF.
InVigor® LR 4540P	BASF Australia Ltd	N/A	New LibertyLink® hybrid with tolerance to both Liberty® and TruFlex®. Combines two herbicide tolerances with the flexibility of PodGuard® for shatter tolerance. Early-mid maturing variety suited to low and medium-rainfall zones. Marketed by BASF.
Monola® H524TT	Nuseed	N/A	Monola® H524TT is an early-mid maturing TT hybrid with excellent early vigour. It is Nuseed's second Monola TT hybrid with improved yield and oil profile. It has demonstrated competitive yield and oil content to commercial canola TT hybrids during trials and exhibits strong early vigour and good early biomass. Suited to medium to slow canola growing regions, Monola® H524TT demonstrates strong blackleg resistance and good harvestability. Limited commercial release in 2024.
Nuseed® Ceres IMI	Nuseed	N/A	Nuseed® Ceres IMI is Nuseed's first release in this popular herbicide technology. It has demonstrated competitive yield and excellent oil during trials, and exhibits strong early vigour and good early biomass. Suited to quick canola growing regions, Nuseed® Ceres IMI comes with good blackleg resistance and harvestability.
PY323G	Pioneer Hi-Bred Aust		Variety description not supplied.
PY421C	Pioneer Hi-Bred Aust		Variety description not supplied.
PY422G	Pioneer Hi-Bred Aust		Variety description not supplied.
PY424GC	Pioneer Hi-Bred Aust		Variety description not supplied.
PY525G	Pioneer Hi-Bred Aust		Variety description not supplied.

* EPR amount is ex-GST, [Ⓣ] denotes Plant Breeder's Rights apply. ¹ All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder.

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

Canola variety yield performance – Central New South Wales

Yield results are presented from the top-performing varieties within each NVT location in the region for the past five seasons. Results are presented (as a percentage) for each variety relative to the mean trial yield for the location within each year. Varieties are listed in descending order of average yield over the period.

The Long Term Yield Reporter provides additional information on varieties not listed and can be viewed as a table or chart with error bars. Rainfall is provided for January to March (J–M) and April to October (A–O) and, where relevant, irrigation from April to October.

Table 1: Grenfell med-high rainfall GLY.

Year	2019	2020	2021	2022	2023		
Mean yield (t/ha)		3.25	2.94		2.58		
Nuseed® Hunter TF	Trial failed			Trial failed	104		
Pioneer® 45Y28 RR			107		107		
Nuseed® Eagle TF			107		106		
InVigor® R 4520P		105	109		106		
InVigor® LR 4540P					102		
Pioneer® 44Y30 RR			107		102		
Hyola® Regiment XC			104		108		
PY323G					98		
Nuseed® Raptor TF		109	104		101		
PY525G					107		
Sowing date		7 May	21 Apr		20 Apr	26 Apr	23 Apr
Rainfall J–M (mm)		145	126		317	239	251
Rainfall A–O (mm)	127	512	421	616	248		

Special thanks to 2023 trial cooperator, Lake Hawdon Proprietors Pty Ltd.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 2: Parkes med-high rainfall GLY.

Year	2019	2020	2021	2022	2023			
Mean yield (t/ha)		2.83			1.61			
InVigor® R 4520P	Trial failed	110	Compromised trial	Trial failed	100			
Nuseed® Hunter TF					107			
Pioneer® 45Y28 RR					105			
InVigor® LR 4540P					103			
Pioneer® 44Y30 RR					102			
PY525G					98			
Hyola® Regiment XC					115			
Nuseed® Raptor TF		98			108			
PY323G					104			
PY422G					94			
Sowing date		9 May			17 Apr	20 Apr	27 May	11 May
Rainfall J–M (mm)		98			196	241	178	187
Rainfall A–O (mm)	114	465	277	358	169			

Special thanks to 2023 trial cooperator.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 3: Condobolin low-med rainfall GLY.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.33	3.04	2.99	2.63	1.98
InVigor® R 4520P	108	103	108	109	99
InVigor® LR 4540P				109	99
Nuseed® Hunter TF				106	102
Hyola® Regiment XC			103		106
Pioneer® 44Y30 RR			102	103	99
Nuseed® Raptor TF		113	98	102	97
PY424GC					94
InVigor® R 4022P	104	94	102	103	97
PY422G					98
Pioneer® 44Y27 (RR)	102	95	101	103	96
Sowing date	24 Apr	17 Apr	7 May	25 Apr	27 Apr
Rainfall J–M (mm)	68	229	373	184	157
Rainfall A–O (mm)	69	396	252	581	111
Irrigation A–O (mm)					52

Special thanks to 2023 trial cooperator.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 4: Trangie low-med rainfall GLY.

Year	2019	2020	2021	2022	2023	
Mean yield (t/ha)		2.31	2.94	2.62	1.65	
InVigor® LR 4540P	Trial failed			120	101	
InVigor® R 4520P		115	105	119	99	
PY424GC					97	
Pioneer® 44Y30 RR			103	110	101	
Nuseed® Raptor TF		105	101	111	100	
Pioneer® 44Y27 (RR)		101	101	109	97	
InVigor® R 4022P		105	100	106	95	
Hyola® Regiment XC			103		110	
PY422G					94	
PY323G					105	
Sowing date		1 May	21 Apr	21 Apr	20 Apr	8 May
Rainfall J–M (mm)		92	193	303	173	167
Rainfall A–O (mm)	45	325	271	623	152	

Special thanks to 2023 trial cooperator.
Learn more via the [NVT Long Term Yield Reporter](#)

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Table 5: Cudal med-high rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	0.71	3.56	4.22	3.25	2.22
PY421C				117	118
Hyola® Solstice CL				113	126
Pioneer® 45Y95 (CL)			116	117	111
Pioneer® 44Y94 CL	121	112	115	114	108
Hyola® Continuum CL				108	101
Pioneer® 45Y93 CL	93	107	110	109	99
Hyola® Equinox CL		102	100		
Pioneer® 44Y90 (CL)	103	104			
PY520TC				97	89
VICTORY® V75-03CL	64	94	93		87
Sowing date	1 May	17 Apr	21 Apr	3 May	26 Apr
Rainfall J–M (mm)	136	200	287	235	177
Rainfall A–O (mm)	130	555	380	616	272

Special thanks to 2023 trial cooperator.

Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties have not been included in this trial, but have been tested in other herbicide trials at this location: Hyola® Defender CT.

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

Table 6: Gilgandra med-high rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)			2.84	3.07	1.50
Hyola® Solstice CL			113	109	121
PY421C				111	110
Pioneer® 45Y95 (CL)				107	107
Hyola® Equinox CL			106	104	
Pioneer® 44Y94 CL	Trial failed	Trial failed	108	105	105
Hyola® Continuum CL				101	101
Pioneer® 45Y93 CL				103	97
Pioneer® 43Y92 (CL)			102	101	102
PY520TC				96	91
VICTORY® V75-03CL					92
Sowing date	30 Apr	16 Apr	22 Apr	19 Apr	25 Apr
Rainfall J–M (mm)	99	307	394	180	191
Rainfall A–O (mm)	49	431	325	586	131

Special thanks to 2023 trial cooperator.

Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties have not been included in this trial, but have been tested in other herbicide trials at this location: Hyola® Defender CT.

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

Table 7: Grenfell med-high rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		3.33	2.89		2.57
PY421C					113
Pioneer® 45Y95 (CL)			116		112
Pioneer® 44Y94 CL		118	116		108
Hyola® Solstice CL					110
Hyola® Continuum CL	Trial failed			Trial failed	103
Pioneer® 45Y93 CL			109		108
Pioneer® 44Y90 (CL)		106			
Hyola® Equinox CL		101	101		
PY520TC					100
VICTORY® V75-03CL		92	91		93
Sowing date	7 May	21 Apr	20 Apr	26 Apr	23 Apr
Rainfall J–M (mm)	145	126	317	239	251
Rainfall A–O (mm)	127	512	421	616	248

Special thanks to 2023 trial cooperator, Lake Hawdon Proprietors Pty Ltd.

Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties have not been included in this trial, but have been tested in other herbicide trials at this location: Hyola® Defender CT and Hyola® Regiment XC.

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

Table 8: Parkes med-high rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		2.59			1.37
PY421C					106
Pioneer® 45Y95 (CL)					108
Pioneer® 44Y94 CL		114			105
Pioneer® 45Y93 CL					95
Hyola® Solstice CL	Trial failed			Trial failed	125
Hyola® Continuum CL					103
Pioneer® 44Y90 (CL)		107			
Pioneer® 43Y92 (CL)		101			103
PY520TC					93
VICTORY® V75-03CL					93
Sowing date	9 May	17 Apr	20 Apr	27 May	11 May
Rainfall J–M (mm)	98	196	241	178	187
Rainfall A–O (mm)	114	465	277	358	169

Special thanks to 2023 trial cooperator.

Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties have not been included in this trial, but have been tested in other herbicide trials at this location: Hyola® Defender CT and Hyola® Regiment XC.

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

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Table 9: Wellington med-high rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		2.72	3.16	2.78	1.68
PY421C	Trial failed			135	117
Pioneer® 45Y93 CL		127	112	129	100
Pioneer® 45Y95 (CL)			118	124	111
Pioneer® 44Y94 CL		112		120	107
Hyola® Continuum CL				107	101
Hyola® Solstice CL			102	99	124
Pioneer® 43Y92 (CL)				99	102
PY520TC					90
Hyola® Equinox CL		87	94	88	
VICTORY® V75-03CL		90	92		88
Sowing date	2 May	16 Apr	10 May	22 Apr	12 May
Rainfall J–M (mm)	157	365	289	286	73
Rainfall A–O (mm)	130	429	292	731	133

Special thanks to 2023 trial cooperator.

Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties have not been included in this trial, but have been tested in other herbicide trials at this location: Hyola® Defender CT.

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

Table 10: Condobolin low-med rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.02	2.92	3.10	2.90	1.73
PY421C					106
Pioneer® 44Y94 CL			107	108	103
Hyola® Solstice CL			102		119
Hyola® Equinox CL				92	
Hyola® Continuum CL				99	106
Pioneer® 44Y90 (CL)	102	103			
Pioneer® 43Y92 (CL)	98	108	100	98	103
Nuseed® Ceres IMI				95	108
PY520TC					91
VICTORY® V7002CL	100	91	89		
Sowing date	24 Apr	17 Apr	7 May	25 Apr	28 Apr
Rainfall J–M (mm)	68	229	373	184	157
Rainfall A–O (mm)	69	396	252	581	111
Irrigation A–O (mm)					52

Special thanks to 2023 trial cooperator.

Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties have not been included in this trial, but have been tested in other herbicide trials at this location: Hyola® Defender CT, Hyola® Enforcer CT, and Hyola® Regiment XC.

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

Table 11: Trangie low-med rainfall IMI.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		2.22	3.47	2.48	1.54
PY421C	Trial failed			127	112
Pioneer® 44Y94 CL			107	124	111
Pioneer® 45Y95 (CL)				120	112
Hyola® Continuum CL				96	108
Pioneer® 43Y92 (CL)		99	100	98	105
Hyola® Solstice CL			103		130
Hyola® Equinox CL				75	
Nuseed® Ceres IMI			100		109
PY520TC					85
VICTORY® V7002CL		94	92		
Sowing date	1 May	21 Apr	21 Apr	20 Apr	8 May
Rainfall J–M (mm)	92	193	303	173	167
Rainfall A–O (mm)	45	325	271	623	152

Special thanks to 2023 trial cooperator.

Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties have not been included in this trial, but have been tested in other herbicide trials at this location: Hyola® Defender CT, Hyola® Enforcer CT, and Hyola® Regiment XC.

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

Table 12: Cudal med-high rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	0.68	3.11	3.80	3.17	1.82
HyTTec® Trifecta	135	115	117	117	118
Hyola® Blazer TT		114	117	116	112
HyTTec® Trophy	129	112	114	113	114
PY520TC				113	105
SF Dynatron TT		109	111	110	108
Hyola® Defender CT				112	101
InVigor® T 4511			108	108	111
InVigor® T 4510	131	106	107	107	112
RGT Baseline® TT			110	110	102
RGT Capacity TT	122	105	105	106	108
Sowing date	1 May	17 Apr	21 Apr	3 May	26 Apr
Rainfall J–M (mm)	136	200	287	235	177
Rainfall A–O (mm)	130	555	380	616	272

Special thanks to 2023 trial cooperator.

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

WHEAT

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LUPIN

Table 13: Gilgandra med-high rainfall TT.

Year	2019	2020	2021	2022	2023		
Mean yield (t/ha)			2.90	2.90	1.60		
HyITec® Trifecta	Trial failed	Trial failed	111	108	110		
HyITec® Trophy			109	105	108		
HyITec® Trident			109	103	111		
Hyola® Blazer TT			109	106	105		
HyITec® Velocity				106	111		
InVigor® T 4510			105	105	107		
InVigor® T 4511			105	105	106		
PY520TC					102		
SF Dynatron TT			105	105	103		
RGT Capacity TT			103	105	103		
Sowing date			30 Apr	16 Apr	22 Apr	19 Apr	25 Apr
Rainfall J–M (mm)			99	307	394	180	191
Rainfall A–O (mm)	49	431	325	586	131		

Special thanks to 2023 trial cooperator.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 14: Grenfell med-high rainfall TT.

Year	2019	2020	2021	2022	2023		
Mean yield (t/ha)		2.96	2.62		2.40		
Hyola® Blazer TT	Trial failed	118	118	Trial failed	111		
HyITec® Trifecta		117	117		113		
HyITec® Trophy		118	115		108		
PY520TC					109		
Hyola® Defender CT					108		
SF Dynatron TT		114	113		106		
InVigor® T 4511			109		105		
RGT Baseline® TT			110		110		
InVigor® T 4510		111	109		103		
RGT Capacity TT		104	107		106		
Sowing date		7 May	21 Apr		20 Apr	26 Apr	23 Apr
Rainfall J–M (mm)		145	126		317	239	251
Rainfall A–O (mm)	127	512	421	616	248		

Special thanks to 2023 trial cooperator, Lake Hawdon Proprietors Pty Ltd.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 15: Parkes med-high rainfall TT.

Year	2019	2020	2021	2022	2023			
Mean yield (t/ha)		2.63			1.72			
Hyola® Blazer TT	Trial failed	114	Trial failed	Trial failed	106			
HyITec® Trifecta		111			110			
Hyola® Defender CT					100			
PY520TC					103			
HyITec® Trophy		107			109			
SF Dynatron TT					102			
InVigor® T 4511					106			
HyITec® Trident		99			115			
RGT Capacity TT					100			
InVigor® T 4510		104			105			
Sowing date		9 May			17 Apr	20 Apr	27 May	11 May
Rainfall J–M (mm)		98			196	241	178	187
Rainfall A–O (mm)	114	465	277	358	169			

Special thanks to 2023 trial cooperator.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 16: Wellington med-high rainfall TT.

Year	2019	2020	2021	2022	2023	
Mean yield (t/ha)		2.31	3.00	2.47	1.61	
Hyola® Blazer TT	Trial failed	120	120	126	110	
RGT Baseline® TT			109	130	103	
HyITec® Trifecta			116	123	115	
Hyola® Defender CT				125	101	
PY520TC			117	121	104	
SF Dynatron TT			117	120	107	
RGT Capacity TT			107	120	107	
Renegade TT ^o			103	120	101	
HyITec® Trophy		103	117	110	111	
InVigor® T 4511			109	109	109	
Sowing date		2 May	16 Apr	10 May	22 Apr	12 May
Rainfall J–M (mm)		157	365	289	286	73
Rainfall A–O (mm)	130	429	292	731	133	

Special thanks to 2023 trial cooperator.
Learn more via the [NVT Long Term Yield Reporter](#)

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Table 17: Condobolin low-med rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	1.08	2.51	2.97	2.69	1.64
Hyola® Blazer TT		122		109	107
SF Dynatron TT	110	117		108	104
Hyola® Defender CT				107	104
Hyola® Enforcer CT		123		100	109
HyTTec® Trophy		108	107	105	107
DG Bidgee TT ^φ				102	104
HyTTec® Trident	122	101	107	106	105
RGT Capacity TT		103	104	100	109
HyTTec® Velocity				104	110
InVigor® T 4511			102	101	103
Sowing date	24 Apr	17 Apr	7 May	25 Apr	27 Apr
Rainfall J–M (mm)	68	229	373	184	157
Rainfall A–O (mm)	69	396	252	581	111
Irrigation A–O (mm)					52

Special thanks to 2023 trial cooperator.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 18: Trangie low-med rainfall TT.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		2.12	2.87	2.37	1.50
Hyola® Blazer TT		117		123	116
Hyola® Defender CT				118	108
HyTTec® Trident		102	109	118	115
InVigor® LT 4530P		115	103	126	92
HyTTec® Trophy		104	108	114	116
InVigor® T 4510		104	105	115	103
Hyola® Enforcer CT		103		103	117
DG Bidgee TT ^φ				105	104
Renegade TT ^φ			100	112	91
InVigor® T 4511			104	106	108
Sowing date	1 May	21 Apr	21 Apr	20 Apr	8 May
Rainfall J–M (mm)	92	193	303	173	167
Rainfall A–O (mm)	45	325	271	623	152

Special thanks to 2023 trial cooperator.
Learn more via the [NVT Long Term Yield Reporter](#)

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Chickpea variety yield performance – Central New South Wales

Yield results are presented from the top-performing varieties within each NVT location in the region for the past five seasons. Results are presented (as a percentage) for each variety relative to the mean trial yield for the location within each year. Varieties are listed in descending order of average yield over the period. The Long Term Yield Reporter provides additional information on varieties not listed and can be viewed as a table or chart with error bars. Rainfall is provided for January to March (J–M) and April to October (A–O) and, where relevant, irrigation from April to October.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)		2.97	2.59		0.66
PBA Drummond [Ⓛ]	No trial	105	101	Trial failed	108
CBA Captain [Ⓛ]		99	102		94
PBA Boundary [Ⓛ]		98	96		93
PBA Seamer [Ⓛ]		93	97		105
Kyabra [Ⓛ]		97	89		
PBA HatTrick [Ⓛ]		94	94		97
Sowing date		15 May	31 May	17 Jun	14 Jun
Rainfall J–M (mm)		199	303	55	167
Rainfall A–O (mm)		394	271	795	152

Special thanks to 2023 trial cooperator.
Learn more via the [NVT Long Term Yield Reporter](https://nvt.grdc.com.au/resources/long-term-yield-reporter)

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

Chickpea variety disease ratings – New South Wales

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

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

Table 2: Chickpea disease guide for New South Wales.

Variety	Ascochyta blight (pathogen group 1 – south)	Ascochyta blight (pathogen group 2 – north)	Phytophthora root rot*	RLN resistance (<i>Pratylenchus neglectus</i>)*	RLN tolerance (<i>Pratylenchus neglectus</i>)*	RLN resistance (<i>Pratylenchus thornei</i>)*	RLN tolerance (<i>Pratylenchus thornei</i>)
DESI							
CBA Captain [Ⓓ]	S	MS					MT
Genesis™ 836	S	S					MT
Kyabra [Ⓓ]	VS	VS					MT
Neelam [Ⓓ]	S	S					MTMI
PBA Boundary [Ⓓ]	S	S					MT
PBA Drummond [Ⓓ]	VS	VS					MT
PBA HatTrick [Ⓓ]	S	S					MTMI
PBA Maiden [Ⓓ]	S	S					MII
PBA Pistol [Ⓓ]	S	VS					MII
PBA Seamer [Ⓓ]	S	MS					MTMI
PBA Slasher [Ⓓ]	S	S					MT
PBA Striker [Ⓓ]	S	S					TMT
KABULI							
Almaz [Ⓓ]	S	MS					IVI
Genesis™ 090	MS	MS					MII
Genesis™ Kalkee	S	S					MI
PBA Magnus [Ⓓ]	S	MS					I
PBA Monarch [Ⓓ]	S	MS					MII
PBA Royal [Ⓓ]	MS	MS					MII

* ratings will be updated when available. Learn more via the [NVT Disease Ratings](#).
 R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant.



FIELD PEA

New field pea varieties

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

Variety	Breeding company	End point royalty* (\$)	Comments supplied by breeding company ¹
APB Bondi [Ⓛ]	Agriculture Victoria	TBC	APB Bondi [Ⓛ] (tested as OZP1903) is a Kasper-type pea with mid-flowering and mid-maturity. APB Bondi [Ⓛ] combines a number of traits in a semi-leafless and semi-dwarf background. It is rated resistant to moderately resistant to downy mildew; resistant to powdery mildew, pea seed-borne mosaic virus and bean leaf roll virus; tolerant to boron toxicity and moderately tolerant to salinity. It has a high yield potential and wide adaptation. Seed is marketable as Kasper pea.

* EPR amount is ex-GST, [Ⓛ] denotes Plant Breeder's Rights apply. ¹ All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder.

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

Field pea variety yield performance – Central New South Wales

Yield results are presented from the top-performing varieties within each NVT location in the region for the past five seasons. Results are presented (as a percentage) for each variety relative to the mean trial yield for the location within each year. Varieties are listed in descending order of average yield over the period. The Long Term Yield Reporter provides additional information on varieties not listed and can be viewed as a table or chart with error bars. Rainfall is provided for January to March (J–M) and April to October (A–O) and, where relevant, irrigation from April to October.

Table 1: Condobolin field pea.

Year	2019	2020	2021	2022	2023
Mean yield (t/ha)	0.58	2.43	3.07		1.05
PBA Butler ^{db}	104	103	109	Trial failed	109
APB Bondi ^{db}		100	111		104
PBA Taylor ^{db}	113	99	110		106
PBA Pearl	102	108	99		100
Sturt	103	106	97		104
PBA Wharton ^{db}	119	96	103		98
PBA Oura ^{db}	108	105	96		100
Kaspa	92	98	103		104
PBA Percy	93	110	91		103
PBA Noosa ^{db}	93	97	100		96
Sowing date	22 May	22 May	24 May		9 May
Rainfall J–M (mm)	68	229	373	184	157
Rainfall A–O (mm)	69	396	252	581	111
Irrigation A–O (mm)					60

Special thanks to 2023 trial cooperator.
Learn more via the [NVT Long Term Yield Reporter](#)

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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 2024.

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

Table 2: Field pea disease guide for New South Wales.

Variety	Bacterial blight	Downy mildew	Powdery mildew	RLN resistance (<i>Pratylenchus neglectus</i>)*	RLN resistance (<i>Pratylenchus thornei</i>)*
APB Bondi [Ⓛ]	S	RMR (S)	RMR		
GIA Kastar [Ⓛ]	S	S	RMR		
GIA Ourstar [Ⓛ]	S (P)	S	S		
Kaspa	S	S	S		
PBA Butler [Ⓛ]	MS	S	S		
PBA Gonyah [Ⓛ]	S	S	S		
PBA Noosa [Ⓛ]	S	MS	S		
PBA Oura [Ⓛ]	MS	S	S		
PBA Pearl	MS	S	S		
PBA Percy	MRMS	S	S		
PBA Taylor [Ⓛ]	S	S	S		
PBA Twilight [Ⓛ]	S	S	S		
PBA Wharton [Ⓛ]	S	S	RMR		
Sturt	MS	S	S		

* ratings will be updated when available. Learn more via the [NVT Disease Ratings](#).

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, (P) = provisional rating, () show outlier.

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New lupin varieties

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

Variety	Breeding company	End point royalty* (\$)	Comments supplied by breeding company ¹
Gidgee [Ⓓ]	Australian Grain Technologies	TBC	A very high and stable yielding alternative to PBA Jurien [Ⓓ] and Mandelup [Ⓓ] . Widely adapted but particularly well adapted to the northern and central wheatbelt of WA. Metribuzin tolerant. Reduced risk of seed splitting compared with PBA Jurien [Ⓓ] . Moderately resistant to stem Phomopsis. Good CMV resistance. Slightly quicker maturity relative to PBA Jurien [Ⓓ] , slightly slower than Mandelup [Ⓓ] .
Rosemont [Ⓓ]	Australian Grain Technologies	TBC	A very high yielding alternative to PBA Jurien [Ⓓ] , Coyote [Ⓓ] and Mandelup [Ⓓ] . Best performance in softer finishing situations and southern WA environments. Unique white flower and faintly speckled seed. Metribuzin tolerant. Excellent early vigour. Reduced risk of seed splitting compared with PBA Jurien [Ⓓ] . Taller plant height, may improve harvestability. Moderately resistant to stem Phomopsis. Good CMV resistance. Slightly slower maturity relative to PBA Jurien [Ⓓ] , slightly quicker than Coyote [Ⓓ] .

* EPR amount is ex-GST, [Ⓓ] denotes Plant Breeder's Rights apply. ¹ All data in the table was provided by breeders. Readers should raise any issues with the displayed data directly with the breeder.

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

Lupin variety yield performance – Central New South Wales

Yield results are presented from the top-performing varieties within each NVT location in the region for the past five seasons. Results are presented (as a percentage) for each variety relative to the mean trial yield for the location within each year. Varieties are listed in descending order of average yield over the period.

The Long Term Yield Reporter provides additional information on varieties not listed and can be viewed as a table or chart with error bars. Rainfall is provided for January to March (J–M) and April to October (A–O) and, where relevant, irrigation from April to October.

Table 1: Gilgandra narrow-leaf lupin.

Year	2019	2020	2021	2022	2023		
Mean yield (t/ha)		1.54	4.72		1.07		
Coyote ^{db}	Trial failed	113		Trial failed	118		
Lawler ^{db}			101				
Gidgee ^{db}			103				
PBA Bateman ^{db}		108	98			107	
PBA Jurien ^{db}		101				102	
Mandelup ^{db}		100	100			101	
PBA Gunyidi ^{db}		105				102	
Jenabillup ^{db}		102				97	
PBA Barlock ^{db}		99	98			95	
Wonga		92	96			79	
Sowing date		1 May	21 Apr		26 Apr	8 Jun	24 Apr
Rainfall J–M (mm)		99	307		394	180	191
Rainfall A–O (mm)	49	431	325	586	131		

Special thanks to 2023 trial cooperators.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 2: Goonumbla narrow-leaf lupin.

Year	2019	2020	2021	2022	2023	
Mean yield (t/ha)		2.02	3.81	2.88	0.70	
Coyote ^{db}	Trial failed	122		114	111	
PBA Bateman ^{db}		120	106	100	128	
Rosemont ^{db}				114		
PBA Gunyidi ^{db}		118		96	128	
Lawler ^{db}			106	110		
Jenabillup ^{db}		111		91	126	
Gidgee ^{db}			103	112		
Mandelup ^{db}		97	100	101	98	
PBA Jurien ^{db}		96		98	106	
PBA Barlock ^{db}		101	97	89	120	
Sowing date		10 May	20 Apr	27 Apr	10 May	3 May
Rainfall J–M (mm)		92	196	241	188	121
Rainfall A–O (mm)	114	465	277	481	161	

Special thanks to 2023 trial cooperators.
Learn more via the [NVT Long Term Yield Reporter](#)

Lupin variety disease ratings – New South Wales

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

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

Table 3: Lupin disease guide for New South Wales.

Variety	Anthraxnose resistance	Cucumber mosaic virus (CMV)*	Phomopsis pod infection	Phomopsis stem infection	Sclerotinia stem rot
Coromup ^{db}	MR		MS	MR	S (P)
Coyote ^{db}	MRMS		MRMS	S	S (P)
Gidgee ^{db}	RMR		S (P)	MR	S (P)
Jenabillup ^{db}	MS		MR	MS	S (P)
Lawler ^{db}	MR		MS	MR	S (P)
Mandelup ^{db}	MRMS		S	MR	S (P)
PBA Barlock ^{db}	RMR		MR	MR	S (P)
PBA Bateman ^{db}	MRMS		MS	RMR	S (P)
PBA Gunyidi ^{db}	MRMS		MRMS	RMR	S (P)
PBA Jurien ^{db}	RMR		MRMS	RMR	S (P)
PBA Leeman ^{db}	MRMS		MRMS	MR	S (P)
Rosemont ^{db}	MRMS		MRMS (P)	MR	S (P)
Wonga	MR		MR	MR	S (P)

* ratings will be updated when available. Learn more via the [NVT Disease Ratings](#).
R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, (P) = provisional rating.

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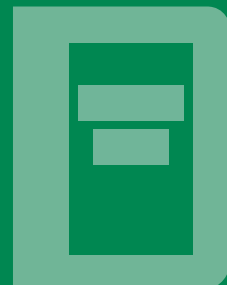
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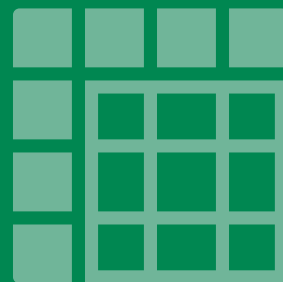
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