

NVT HARVEST REPORT



REVISED APRIL 2023

Central New South Wales
Northern Region

**Title:**

NVT Harvest Report – Central New South Wales

ISSN: 2652-578X (online)

Published: April 2023

Authors:

Katherine Hollaway, Astute Ag and
Dr Sue Knights, SE Knights Consulting

Acknowledgements:

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

© Grains Research and Development Corporation 2023

This book is copyright. Except as permitted under the *Copyright Act 1968* (Commonwealth) and subsequent amendments, no part of this publication may be reproduced, stored or transmitted in any form or by any means, electronic or otherwise, without the specific written permission of the copyright owner.

GRDC contact details:

Ms Maureen Cribb
Integrated Publications Manager
PO Box 5367
KINGSTON ACT 2604

Email: maureen.cribb@grdc.com.au

Design and production:

Coretext, www.coretext.com.au

COVER: NVT barley and wheat, Lake Grace, WA in 2022.

PHOTO: Isabelle Rogers

DISCLAIMER: Any recommendations, suggestions or opinions contained in this publication do not necessarily represent the policy or views of the Grains Research and Development Corporation. No person should act on the basis of the content of this publication without first obtaining specific, independent professional advice.

The Grains and Research Development Corporation will not be liable for any loss, damage, cost or expense incurred or arising by reason of any person using or relying on the information in this publication.

TABLE OF CONTENTS



This guide can be downloaded to your computer or tablet at:
grdc.com.au/harvestreports

| | |
|------------------|----|
| INTRODUCTION | 4 |
| WHEAT | 6 |
| BARLEY | 19 |
| OAT | 25 |
| CANOLA | 28 |
| CHICKPEA | 35 |
| FIELD PEA | 37 |
| LUPIN | 39 |
| USEFUL NVT TOOLS | 41 |

LEGEND: MEAN VARIETY YIELD PERFORMANCE



LOW

HIGH

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

DISEASE RATING COLOUR RANGE

| | | | | | | | | |
|----|-----|---|-----|----|------|----|-----|---|
| VS | SVS | S | MSS | MS | MRMS | MR | RMR | R |
|----|-----|---|-----|----|------|----|-----|---|

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

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
grdc.com.au/nvt-crop-sowing-guides

INTRODUCTION

This *NVT Harvest Report* provides information to support growers and advisers with decisions on variety selection for **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 2022 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 acknowledges that an ongoing project of this type would not be possible without the cooperation of growers prepared to contribute sites and who often assist with the management of trials on their property.

Interpreting long-term yield results

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

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

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

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

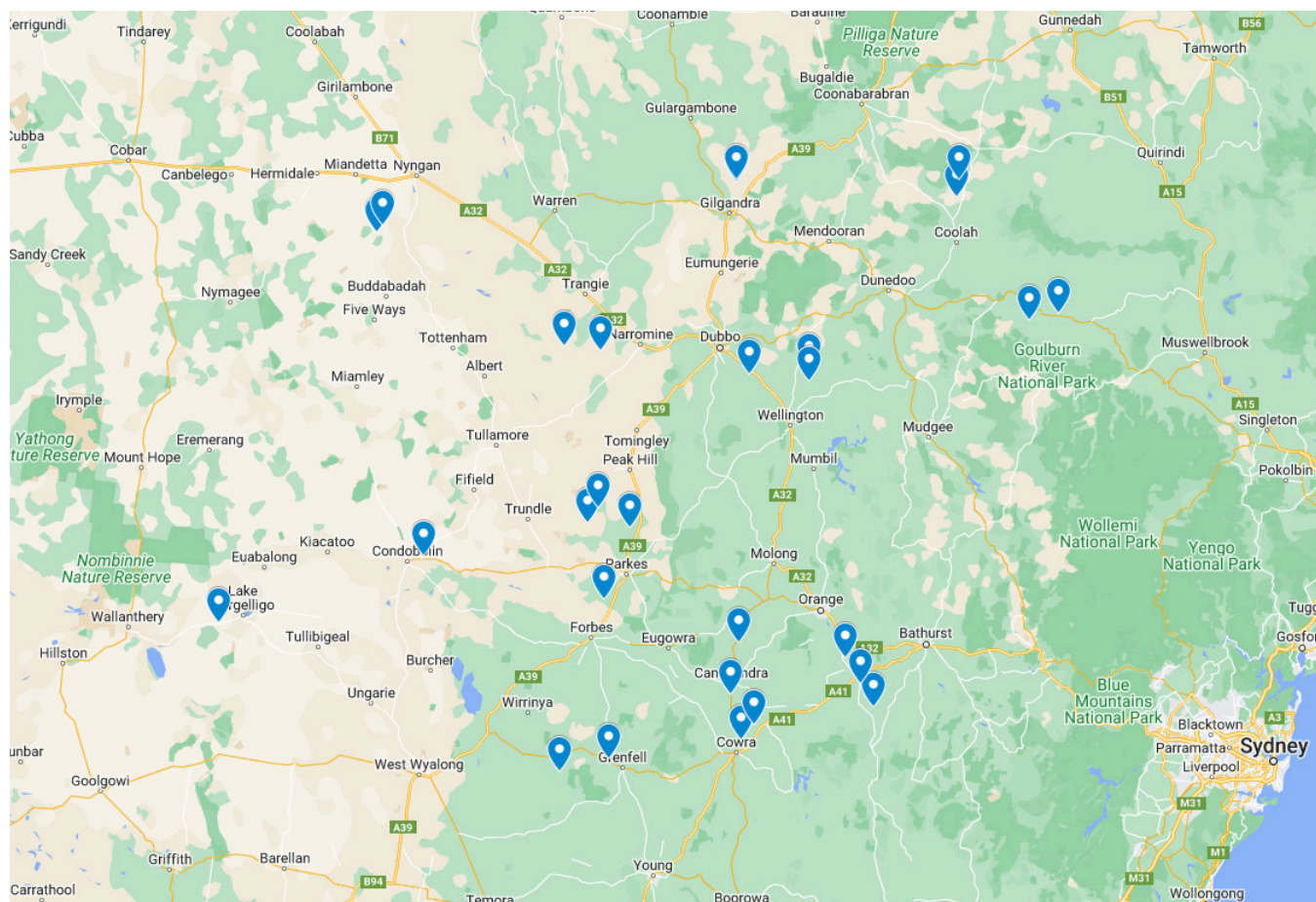
Trials listed as compromised are not suitable for making variety decisions. Results can be found in the [Quarantined trial reports](#).

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

NVT SITE LOCATIONS – Central New South Wales

Figure 1: Locality of NVT trial sites in Central New South Wales from 2018 to 2022.

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.

| Variety | Variety owner | Grain classification | End point royalty* (\$) | Comments supplied by variety owner |
|---------------------------|----------------------------------|----------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Brumby ^{db} | InterGrain | Milling | 3.50 | Mid-maturing, with a slightly later time of flowering than Scepter ^{db} , although earlier than RockStar ^{db} . Well-suited to May sowing. |
| Jillaroo ^{db} | InterGrain | Milling | 3.50 | Exceptionally high-yielding, quick-maturity spring wheat suited to mid-May onwards sowing with moderate, compact plant height. |
| Kingston ^{db} | BASF Australia | Milling | 3.55 | Exhibits outstanding lodging resistance with a plant type that produces low residue to manage the following year. |
| LRPB Anvil ^{db} | LongReach Plant Breeders Pty Ltd | Milling | 4.25 | Clearfield® Plus wheat with two-gene tolerance to label rates of Intervix® herbicide with quick maturity and bold early growth. Fast grain fill with large grain, suited to low to medium-rainfall areas. Bred by Grains Innovation Australia, developed by LongReach Plant Breeders and marketed by Pacific Seeds. |
| LRPB Scotch ^{db} | LongReach Plant Breeders Pty Ltd | Milling | None provided. | Mid-slow spring maturing suited for high-yielding soft wheat production systems. Medium-short height with good straw strength well-suited for irrigated production. |
| Rebel 65 | Rebel Seeds | Milling | None provided. | None provided. |
| Rebel Rat | Rebel Seeds | Feed | None provided. | A mid-maturity variety similar to Borlaug 100 ^{db} . Upright, grows to about a metre, strong resistance to lodging. Replacement for crown rot susceptible varieties. Large seed, high starch suitable for livestock processing. |
| Reilly ^{db} | BASF Australia | Milling | 3.55 | Shows yield stability in tough conditions. Provides new genetics for Australian growers. |
| RGT Waugh ^{db} | RAGT | Feed | None provided. | An awned, white-grained winter wheat. Mid-slow maturing variety for medium to high-rainfall zones and irrigation. Suitable for dual-purpose applications when early sowing is possible. Excellent standability. |
| Stockade ^{db} | LongReach Plant Breeders Pty Ltd | Milling | None provided. | Very slow spring maturity similar to RGT Accroc ^{db} . Suitable for high-rainfall zones of south-west Victoria, south-east South Australia and Tasmania as main target area but will have relevance to north-east Victoria and south-east slopes. Growth habit with high production canopy with steady biomass accumulation over season based on its slower maturity. Potential variety replacement for RGT Accroc ^{db} and LRPB Beaufort ^{db} feed wheats. |

* EPR amount is ex-GST, ^{db} denotes Plant Breeder's Rights apply.

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

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

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 | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------------------|--------|--------|--------|--------|--------|
| Mean yield (t/ha) | 2.23 | 1.47 | 5.81 | 6.66 | 5.50 |
| RGT Zanzibar | 106 | 70 | 112 | 115 | 124 |
| Sunmaster ^{db} | | 104 | 110 | 113 | 113 |
| Ballista ^{db} | | 125 | 105 | 110 | 104 |
| Brumby ^{db} | | | | 109 | 103 |
| Rebel Rat | | | | | 109 |
| Beckom ^{db} | 107 | 119 | 104 | 109 | 106 |
| Scepter ^{db} | 102 | 127 | 106 | 108 | 101 |
| Suncentral ^{db} | | 96 | 108 | 105 | 109 |
| Calibre ^{db} | | | 101 | 107 | 98 |
| LRPB Scotch ^{db} | | | | 108 | 113 |
| IMI-TOLERANT | | | | | |
| Sunblade CL Plus ^{db} | | 108 | 104 | 108 | 104 |
| Valiant ^{db} CL Plus | | | 107 | 100 | 105 |
| LRPB Anvil ^{db} | | | | 100 | 91 |
| Sowing date | 24 May | 26 May | 13 May | 24 May | 18 May |
| Rainfall J–M (mm) | 76 | 131 | 195 | 320 | 185 |
| Rainfall A–O (mm) | 174 | 121 | 552 | 439 | 619 |

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

Table 3: Coolah main season wheat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------------------|--------|--------|--------|--------|--------|
| Mean yield (t/ha) | | 2.50 | 5.55 | 4.93 | |
| LRPB Raider ^{db} | | | 124 | 114 | |
| Catapult ^{db} | | | | 114 | |
| Coolah ^{db} | | 104 | 116 | 108 | |
| LRPB Scotch ^{db} | | | | 110 | |
| DS Faraday ^{db} | | 93 | 118 | 105 | |
| Coota ^{db} | | 112 | 106 | 108 | |
| Calibre ^{db} | | | | 105 | |
| Jillaroo ^{db} | | | | 107 | |
| LRPB Reliant ^{db} | | 100 | 115 | 101 | |
| LRPB Flanker ^{db} | | 93 | 113 | 105 | |
| IMI-TOLERANT | | | | | |
| Sunblade CL Plus ^{db} | | 112 | 111 | 104 | |
| Elmore CL Plus ^{db} | | 98 | 96 | 97 | |
| Sowing date | 15 Jun | 17 May | 25 May | 26 May | 10 May |
| Rainfall J–M (mm) | 136 | 316 | 341 | 279 | 293 |
| Rainfall A–O (mm) | 87 | 98 | 537 | 359 | 575 |

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

Table 2: Condobolin main season wheat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------------------|--------|--------|--------|--------|--------|
| Mean yield (t/ha) | | 0.96 | 3.49 | 4.97 | 4.23 |
| Borlaug 100 ^{db} | | | | | 114 |
| Calibre ^{db} | | | 110 | 111 | 111 |
| Rebel Rat | | | | | 112 |
| Brumby ^{db} | | | | 107 | 112 |
| Vixen ^{db} | | 142 | 113 | 111 | 101 |
| Ballista ^{db} | | 135 | 107 | 107 | 109 |
| Boree ^{db} | | | 111 | 110 | 101 |
| Scepter ^{db} | | 132 | 108 | 106 | 105 |
| RockStar ^{db} | | 126 | 111 | 110 | 98 |
| Beckom ^{db} | | 124 | 106 | 104 | 109 |
| IMI-TOLERANT | | | | | |
| LRPB Anvil ^{db} | | | | 108 | 105 |
| Hammer CL Plus ^{db} | | | 96 | 101 | 102 |
| Sunblade CL Plus ^{db} | | 103 | 104 | 101 | 99 |
| Sowing date | 14 Jun | 23 May | 22 May | 26 May | 15 Jun |
| Rainfall J–M (mm) | 38 | 68 | 229 | 373 | 184 |
| Rainfall A–O (mm) | 91 | 69 | 396 | 252 | 581 |

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

Table 4: Gilgandra main season wheat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------------------|-------|--------|--------|--------|--------|
| Mean yield (t/ha) | 1.86 | 1.45 | 4.28 | 6.60 | 5.07 |
| Calibre ^{db} | | | | 107 | 103 |
| Boree ^{db} | | | 104 | 110 | 104 |
| Vixen ^{db} | 103 | 113 | 106 | 108 | 101 |
| RockStar ^{db} | | | 103 | 110 | 102 |
| Rebel Rat | | | 107 | 101 | 110 |
| Scepter ^{db} | 104 | 110 | 105 | 106 | 102 |
| Borlaug 100 ^{db} | 102 | 107 | 109 | 100 | 108 |
| Catapult ^{db} | | 113 | 104 | 109 | 95 |
| Sunmaster ^{db} | | | 105 | 103 | 107 |
| Jillaroo ^{db} | | | | 106 | 94 |
| IMI-TOLERANT | | | | | |
| Sunblade CL Plus ^{db} | | 109 | 104 | 103 | 103 |
| Elmore CL Plus ^{db} | 102 | 93 | 95 | 94 | 94 |
| Sowing date | 7 Jun | 17 May | 19 May | 18 May | 24 May |
| Rainfall J–M (mm) | 141 | 99 | 307 | 394 | 180 |
| Rainfall A–O (mm) | 159 | 49 | 431 | 325 | 586 |

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

Table 5: Goonumbla main season wheat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 | |
|-------------------------------|-------|--------------|--------|--------|--------|-----|
| Mean yield (t/ha) | 2.29 | | 4.79 | 6.62 | 5.53 | |
| LRPB Scotch [®] | | Trial failed | | | 110 | |
| Boree [®] | | | 108 | 109 | 103 | |
| RockStar [®] | | | 107 | 110 | 102 | |
| LRPB Raider [®] | | | 101 | 106 | 108 | |
| Calibre [®] | | | | 106 | 99 | |
| Sunmaster [®] | | | 103 | 104 | 107 | |
| Scepter [®] | 105 | | | 105 | 106 | 102 |
| Beckom [®] | 108 | | | 103 | 103 | 105 |
| Catapult [®] | | | | 105 | 108 | 98 |
| Brumby [®] | | | | | | 103 |
| IMI-TOLERANT | | | | | | |
| Sunblade CL Plus [®] | | | 103 | 104 | 104 | |
| Elmore CL Plus [®] | 103 | | 95 | 95 | 95 | |
| Sowing date | 5 Jun | 27 May | 18 May | 20 May | 24 May | |
| Rainfall J–M (mm) | 38 | 92 | 211 | 241 | 178 | |
| Rainfall A–O (mm) | 147 | 114 | 541 | 277 | 358 | |

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

Table 7: Merriwa main season wheat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|-------------------------------|--------|--------|--------|--------|--------|
| Mean yield (t/ha) | 1.48 | 1.77 | 5.82 | 3.83 | 4.14 |
| Rebel Rat | | | 120 | 89 | 112 |
| Sunmaster [®] | | | 109 | 98 | 117 |
| LRPB Scotch [®] | | | | 109 | 109 |
| LRPB Impala [®] | 104 | 96 | 114 | | 108 |
| Calibre [®] | | | | 110 | 92 |
| Beckom [®] | 107 | 103 | 107 | 108 | 106 |
| Coolah [®] | 112 | 107 | 105 | 111 | 101 |
| Brumby [®] | | | | | 104 |
| Scepter [®] | 106 | 105 | 104 | 113 | 95 |
| Borlaug 100 [®] | 101 | 94 | 119 | 79 | 110 |
| IMI-TOLERANT | | | | | |
| Sunblade CL Plus [®] | | 105 | 108 | 106 | 109 |
| Elmore CL Plus [®] | 101 | 98 | 97 | 104 | 94 |
| Sowing date | 15 Jun | 17 May | 28 May | 26 May | 17 Jun |
| Rainfall J–M (mm) | 121 | 202 | 360 | 286 | 301 |
| Rainfall A–O (mm) | 107 | 66 | 382 | 251 | 600 |

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

Table 6: Lake Cargelligo main season wheat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|-------------------------------|------|--------|--------|--------|-------|
| Mean yield (t/ha) | | 1.58 | 3.50 | 5.45 | 4.52 |
| Rebel Rat | | | | | 113 |
| Calibre [®] | | | 120 | 110 | 103 |
| Ballista [®] | | 112 | 113 | 109 | 112 |
| Brumby [®] | | | | 107 | 109 |
| Beckom [®] | | 110 | 108 | 104 | 111 |
| Sunmaster [®] | | 106 | 101 | 100 | 120 |
| Scepter [®] | | 112 | 114 | 106 | 100 |
| Reilly [®] | | | | | 109 |
| RGT Zanzibar | | | 86 | 97 | 138 |
| Kingston [®] | | | | | 104 |
| IMI-TOLERANT | | | | | |
| LRPB Anvil [®] | | | | 108 | 90 |
| Sunblade CL Plus [®] | | 105 | 101 | 101 | 110 |
| Razor CL Plus [®] | | 106 | 110 | 100 | 99 |
| Sowing date | | 15 May | 11 May | 17 May | 8 May |
| Rainfall J–M (mm) | | 82 | 118 | 266 | 273 |
| Rainfall A–O (mm) | | 87 | 280 | 264 | 561 |

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

Table 8: Nyngan main season wheat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|-------------------------------|--------------|--------------|--------------|--------|--------|
| Mean yield (t/ha) | | | | 3.34 | 4.99 |
| Boree [®] | Trial failed | Trial failed | Trial failed | 120 | 107 |
| RockStar [®] | | | | 119 | 103 |
| Sunmaster [®] | | | | 108 | 110 |
| LRPB Scotch [®] | | | | | 107 |
| Vixen [®] | | | | 116 | 104 |
| Calibre [®] | | | | 114 | 104 |
| Scepter [®] | | | | 114 | 104 |
| Beckom [®] | | | | 107 | 108 |
| Suncentral [®] | | | | 103 | 109 |
| Brumby [®] | | | | | |
| IMI-TOLERANT | | | | | |
| Sunblade CL Plus [®] | | | | 110 | 105 |
| Elmore CL Plus [®] | | | | 90 | 93 |
| Sowing date | 16 May | 22 May | 9 Jun | 12 May | 26 May |
| Rainfall J–M (mm) | 82 | 111 | 66 | 240 | 125 |
| Rainfall A–O (mm) | 107 | 11 | 212 | 181 | 593 |

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

Table 9: Quandialla main season wheat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|-------------------------------|-------------------|--------|--------|--------|--------|
| Mean yield (t/ha) | | 1.18 | 5.11 | 4.97 | 4.76 |
| RGT Zanzibar | Compromised trial | 59 | 111 | 109 | 132 |
| Sunmaster [®] | | 94 | 116 | 105 | 121 |
| Beckom [®] | | 117 | 108 | 106 | 110 |
| Brumby [®] | | | | 106 | 105 |
| Suncentral [®] | | 89 | 109 | 107 | 111 |
| Cutlass [®] | | 88 | 107 | 108 | 111 |
| Calibre [®] | | | 103 | 106 | 98 |
| Kingston [®] | | | | | 103 |
| Scepter [®] | | 132 | 105 | 103 | 100 |
| Rebel Rat | | | | | 109 |
| IMI-TOLERANT | | | | | |
| Sunblade CL Plus [®] | | 104 | 109 | 102 | 111 |
| Valiant [®] CL Plus | | | 102 | 102 | 102 |
| Sheriff CL Plus [®] | | 116 | 103 | 97 | 85 |
| Sowing date | 20 May | 25 May | 11 May | 17 May | 24 May |
| Rainfall J–M (mm) | 85 | 185 | 175 | 262 | 197 |
| Rainfall A–O (mm) | 117 | 120 | 435 | 373 | 590 |

Special thanks to 2022 trial cooperator, Stephen and Jennifer Kelly.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 11: Wongarbon main season wheat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 | |
|-------------------------------|-------|--------------|--------|--------|--------|-----|
| Mean yield (t/ha) | 1.87 | | 5.04 | 5.72 | 5.56 | |
| Sunmaster [Ⓢ] | | Trial failed | 103 | 101 | 109 | |
| Calibre [Ⓢ] | | | | 109 | 98 | |
| LRPB Scotch [Ⓢ] | | | | | 107 | |
| Scepter [Ⓢ] | 106 | | | 103 | 106 | 102 |
| Rebel Rat | | | | 103 | 102 | 102 |
| Vixen [Ⓢ] | 92 | | | 106 | 110 | 99 |
| Beckom [Ⓢ] | 113 | | | 100 | 102 | 105 |
| Borlaug 100 [Ⓢ] | 111 | | | 107 | 102 | 99 |
| Suncentral [Ⓢ] | | | | 104 | 100 | 106 |
| Boree [Ⓢ] | | | | 103 | 110 | 103 |
| IMI-TOLERANT | | | | | | |
| Sunblade CL Plus [Ⓢ] | | | 103 | 102 | 105 | |
| Elmore CL Plus [Ⓢ] | 111 | | 95 | 96 | 95 | |
| Sowing date | 8 Jun | 21 May | 14 May | 19 May | 25 May | |
| Rainfall J–M (mm) | 83 | 173 | 331 | 364 | 227 | |
| Rainfall A–O (mm) | 187 | 81 | 516 | 345 | 751 | |

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

Table 10: Trangie main season wheat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|-------------------------------|--------|--------------|--------|-------|--------|
| Mean yield (t/ha) | 1.05 | | 4.54 | 5.74 | 5.68 |
| Borlaug 100 [®] | 100 | Trial failed | 111 | 105 | 110 |
| Rebel Rat | | | 110 | 104 | 110 |
| Sunmaster [®] | | | 107 | 105 | 111 |
| Calibre [®] | | | | 109 | 102 |
| Suncentral [®] | | | 105 | 104 | 111 |
| SEA Condamine | 99 | | 108 | 102 | 108 |
| Brumby [®] | | | | | 106 |
| Vixen [®] | 116 | | 97 | 110 | 104 |
| Scepter [®] | 115 | | 102 | 107 | 103 |
| Beckom [®] | 108 | | 103 | 104 | 106 |
| IMI-TOLERANT | | | | | |
| Sunblade CL Plus [®] | | | 107 | 105 | 104 |
| Elmore CL Plus [®] | 96 | | 97 | 95 | 91 |
| Sowing date | 19 Jun | 21 May | 18 Jun | 7 Jun | 20 May |
| Rainfall J–M (mm) | 47 | 92 | 199 | 303 | 173 |
| Rainfall A–O (mm) | 137 | 45 | 394 | 271 | 623 |

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

Table 12: Canowindra early season wheat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|------------------------------|-------|-------|--------|--------|-------|
| Mean yield (t/ha) | 2.18 | 1.52 | 6.20 | 6.50 | 5.56 |
| BigRed [®] | | | | 129 | 135 |
| RGT Cesario [®] | | | 113 | 125 | 127 |
| LRPB Beaufort [®] | | | 113 | 123 | 117 |
| RGT Zanzibar | 106 | 99 | 116 | 115 | 120 |
| RGT Accroc [®] | 99 | 67 | 110 | 124 | 127 |
| Stockade [®] | | | | | 113 |
| RGT Calabro | 92 | 63 | 105 | 117 | 123 |
| LRPB Scotch [®] | | | | 102 | 106 |
| RockStar [®] | | 124 | 106 | 104 | 94 |
| EG Jet [®] | 96 | 90 | 103 | 105 | 107 |
| IMI-TOLERANT | | | | | |
| Valiant [®] CL Plus | | | 103 | 108 | 99 |
| Sheriff CL Plus [®] | | 128 | 98 | 91 | 84 |
| Sowing date | 1 May | 1 May | 28 Apr | 21 Apr | 4 May |
| Rainfall J–M (mm) | 76 | 131 | 195 | 320 | 185 |
| Rainfall A–O (mm) | 174 | 121 | 552 | 439 | 619 |

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

Table 13: Condobolin early season wheat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|------------------------------|--------------|--------|--------|-------|--------|
| Mean yield (t/ha) | | 1.25 | 4.29 | 4.50 | 4.52 |
| RockStar [®] | Trial failed | 141 | 112 | 115 | 105 |
| RGT Zanzibar | | 90 | 110 | 111 | 116 |
| LRPB Beaufort [®] | | | 111 | 111 | 108 |
| Catapult [®] | | 145 | 109 | 112 | 96 |
| Beckom [®] | | 116 | 104 | 107 | 107 |
| Denison [®] | | 131 | 108 | 110 | 96 |
| Coota [®] | | 136 | 105 | 108 | 98 |
| LRPB Trojan [®] | | 134 | 104 | 107 | 98 |
| LRPB Scotch [®] | | | | 105 | 109 |
| Sunflex [®] | | | 126 | 106 | |
| IMI-TOLERANT | | | | | |
| Valiant [®] CL Plus | | | 107 | 107 | 100 |
| Sheriff CL Plus [®] | | 133 | 104 | 107 | 98 |
| Sowing date | 10 May | 16 Apr | 22 Apr | 6 May | 25 Apr |
| Rainfall J–M (mm) | 38 | 68 | 229 | 373 | 184 |
| Rainfall A–O (mm) | 91 | 69 | 396 | 252 | 581 |

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

Table 15: Gilgandra early season wheat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|------------------------------|--------|--------|-------------------|--------|-------|
| Mean yield (t/ha) | 1.40 | 1.82 | | 6.79 | 5.81 |
| RockStar [®] | | | Compromised trial | 115 | 101 |
| Catapult [®] | | 128 | | 115 | 96 |
| Sunflex [®] | 109 | 113 | | | 102 |
| Coota [®] | | 119 | | 111 | 97 |
| LRPB Raider [®] | | | | 105 | 98 |
| Coolah [®] | 105 | 116 | | 107 | 98 |
| LRPB Stealth [®] | | 113 | | 105 | 97 |
| LRPB Nighthawk [®] | 134 | 87 | | 96 | 103 |
| LRPB Scotch [®] | | | | | 109 |
| LRPB Lancer [®] | 87 | 106 | | | 102 |
| IMI-TOLERANT | | | | | |
| Valiant [®] CL Plus | | | | 104 | 101 |
| Sowing date | 24 Apr | 23 Apr | 21 Apr | 11 May | 9 May |
| Rainfall J–M (mm) | 141 | 99 | 307 | 394 | 180 |
| Rainfall A–O (mm) | 159 | 49 | 431 | 325 | 586 |

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

Table 14: Coolah early season wheat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|------------------------------|--------------|--------|--------|--------|-------------------|
| Mean yield (t/ha) | | 2.32 | 5.57 | 5.52 | |
| Willaura [Ⓓ] | Trial failed | | | 118 | Compromised trial |
| LRPB Beaufort [Ⓓ] | | | 116 | 116 | |
| RGT Zanzibar | | 92 | 110 | 115 | |
| Coota [Ⓓ] | | 113 | 106 | 106 | |
| LRPB Raider [Ⓓ] | | | 109 | 109 | |
| RockStar [Ⓓ] | | | 103 | 105 | |
| Denison [Ⓓ] | | | 106 | 105 | |
| LRPB Nighthawk [Ⓓ] | | 89 | 110 | 107 | |
| Catapult [Ⓓ] | | | | 103 | |
| Severn [Ⓓ] | | | | 105 | |
| IMI-TOLERANT | | | | | |
| Valiant [Ⓓ] CL Plus | | | | 92 | |
| Sowing date | 15 Jun | 29 Apr | 15 May | 20 May | 10 May |
| Rainfall J–M (mm) | 136 | 316 | 341 | 279 | 293 |
| Rainfall A–O (mm) | 87 | 98 | 537 | 359 | 575 |

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

Table 16: Goonumbla early season wheat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|------------------------------|-------|--------------|--------|-------|--------|
| Mean yield (t/ha) | 2.08 | | 5.18 | 6.94 | 5.23 |
| LRPB Raider [®] | | Trial failed | 108 | 104 | 99 |
| RockStar [®] | | | 106 | 109 | 102 |
| Sunflex [®] | 109 | | 106 | | 102 |
| Coota [®] | | | 107 | 106 | 100 |
| LRPB Nighthawk [®] | 114 | | 107 | 99 | 106 |
| LRPB Scotch [®] | | | | | 109 |
| Catapult [®] | | | 104 | 108 | 98 |
| Coolah [®] | 108 | | 103 | 104 | 97 |
| Illabo [®] | | | 101 | 97 | 111 |
| LRPB Stealth [®] | | | 100 | 102 | 97 |
| IMI-TOLERANT | | | | | |
| Valiant [®] CL Plus | | | | 101 | 101 |
| Sowing date | 3 May | 9 May | 22 Apr | 7 May | 10 May |
| Rainfall J–M (mm) | 38 | 92 | 211 | 241 | 178 |
| Rainfall A–O (mm) | 147 | 114 | 541 | 277 | 358 |

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

Table 17: Quandialla early season wheat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|------------------------------|-------------------|-------|--------|--------|-------|
| Mean yield (t/ha) | | 1.32 | 5.38 | 5.60 | 4.77 |
| RGT Zanzibar | Compromised trial | 104 | 112 | 120 | 116 |
| BigRed [Ⓢ] | | | | 121 | 128 |
| LRPB Beaufort [Ⓢ] | | | 115 | 118 | 112 |
| RGT Cesario [Ⓢ] | | | 114 | 118 | 121 |
| RGT Accroc [Ⓢ] | | 55 | 112 | 116 | 121 |
| Stockade [Ⓢ] | | | | | 109 |
| RGT Calabro | | 55 | 108 | 112 | 119 |
| RockStar [Ⓢ] | | 158 | 108 | 108 | 94 |
| LRPB Scotch [Ⓢ] | | | | 108 | 105 |
| RGT Waugh [Ⓢ] | | | | 103 | 109 |
| IMI-TOLERANT | | | | | |
| Valiant [Ⓢ] CL Plus | | | 107 | 105 | 97 |
| Sheriff CL Plus [Ⓢ] | | 149 | 98 | 96 | 87 |
| Sowing date | 7 May | 7 May | 27 Apr | 30 Apr | 9 May |
| Rainfall J–M (mm) | 85 | 185 | 175 | 262 | 197 |
| Rainfall A–O (mm) | 117 | 120 | 435 | 373 | 590 |

Special thanks to 2022 trial cooperator, Stephen and Jennifer Kelly.
Learn more via the [NVT Long Term Yield Reporter](#)

Table 19: Wongarbon early season wheat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|------------------------------|-------|--------------|--------|-------|--------|
| Mean yield (t/ha) | 2.24 | | 5.08 | 6.47 | 5.33 |
| RGT Zanzibar | 116 | Trial failed | 100 | 108 | 122 |
| RockStar [®] | | | 113 | 108 | 106 |
| Catapult [®] | | | | 107 | 103 |
| Coota [®] | | | 109 | 106 | 103 |
| Sunflex [®] | 115 | | 106 | | 105 |
| LRPB Raider [®] | | | 102 | 106 | 102 |
| Coolah [®] | 110 | | 106 | 105 | 101 |
| LRPB Stealth [®] | | | 105 | 103 | 100 |
| LRPB Nighthawk [®] | 117 | | 93 | 99 | 102 |
| Severn [®] | 107 | | | 98 | 104 |
| IMI-TOLERANT | | | | | |
| Valiant [®] CL Plus | | | | 99 | 100 |
| Sowing date | 9 May | 8 May | 23 Apr | 3 May | 26 Apr |
| Rainfall J–M (mm) | 83 | 173 | 331 | 364 | 227 |
| Rainfall A–O (mm) | 187 | 81 | 516 | 345 | 751 |

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

Table 18: Trangie early season wheat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|------------------------------|-------|--------------|-------------------|--------------|--------|
| Mean yield (t/ha) | 1.25 | | | | 5.75 |
| LRPB Scotch [®] | | Trial failed | Compromised trial | Trial failed | 109 |
| Sunflex [®] | 109 | | | | 107 |
| RockStar [®] | | | | | 108 |
| Illabo [®] | | | | | 110 |
| LRPB Raider [®] | | | | | 101 |
| Catapult [®] | | | | | 103 |
| EGA Wedgetail [®] | 89 | | | | 106 |
| Coolah [®] | 111 | | | | 101 |
| Coota [®] | | | | | 101 |
| LRPB Nighthawk [®] | 105 | | | | 101 |
| IMI-TOLERANT | | | | | |
| Valiant [®] CL Plus | | | | | 102 |
| Sowing date | 8 May | 10 May | 7 May | 11 May | 26 Apr |
| Rainfall J–M (mm) | 47 | 92 | 199 | 303 | 173 |
| Rainfall A–O (mm) | 137 | 45 | 394 | 271 | 623 |

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

Table 20: Blayney/Millthorpe long season wheat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|------------------------------|-------|-------|--------|--------|--------|
| Mean yield (t/ha) | 5.44 | 2.10 | 6.56 | 8.13 | 6.80 |
| RGT Accroc [®] | 110 | 90 | 114 | 122 | 114 |
| RGT Cesario [®] | | | 111 | 117 | 124 |
| RGT Calabro | 109 | 104 | 102 | 113 | 121 |
| BigRed [®] | | | | 117 | 125 |
| Anapurna | | 71 | 109 | 117 | 118 |
| RGT Waugh [®] | | | 99 | 112 | 127 |
| Stockade [®] | | | | | 108 |
| LRPB Beaufort [®] | 105 | 139 | 110 | 115 | 83 |
| Manning [®] | 111 | 101 | 95 | 105 | 115 |
| RGT Zanzibar | 104 | 133 | 109 | 111 | 82 |
| IMI-TOLERANT | | | | | |
| Valiant [®] CL Plus | | | | 96 | 83 |
| Sowing date | 1 May | 4 Apr | 15 Apr | 16 Apr | 13 Apr |
| Rainfall J–M (mm) | 96 | 160 | 324 | 366 | 254 |
| Rainfall A–O (mm) | 144 | 148 | 661 | 534 | 817 |

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

Table 21: Coolah long season wheat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|------------------------------|----------|-------|--------|--------|----------|
| Mean yield (t/ha) | | 1.80 | 6.29 | 5.49 | |
| RGT Calabro | No trial | 96 | 131 | 118 | No trial |
| RGT Cesario [Ⓢ] | | | | 121 | |
| RGT Waugh [Ⓢ] | | | | 114 | |
| RGT Accroc [Ⓢ] | | 93 | 121 | 124 | |
| Manning [Ⓢ] | | 75 | 128 | 117 | |
| BigRed [Ⓢ] | | | | 115 | |
| Anapurna | | 95 | 118 | 113 | |
| Einstein | | 78 | 118 | 107 | |
| RockStar [Ⓢ] | | | | 106 | |
| DS Bennett [Ⓢ] | | | 97 | 92 | |
| IMI-TOLERANT | | | | | |
| Valiant [Ⓢ] CL Plus | | | | 92 | |
| Sowing date | | 9 Apr | 27 Apr | 20 Apr | |
| Rainfall J–M (mm) | | 316 | 341 | 279 | |
| Rainfall A–O (mm) | | 98 | 537 | 359 | |

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

Table 22: Woodstock long season wheat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|------------------------------|----------|--------------|--------|--------|--------|
| Mean yield (t/ha) | | | 6.64 | 6.98 | 5.96 |
| Anapurna | No trial | Trial failed | 115 | 117 | 129 |
| BigRed [Ⓢ] | | | | 116 | 131 |
| RGT Accroc [Ⓢ] | | | 111 | 118 | 124 |
| RGT Cesario [Ⓢ] | | | 112 | 114 | 127 |
| RGT Waugh [Ⓢ] | | | 111 | 109 | 132 |
| LRPB Beaufort [Ⓢ] | | | 117 | 121 | 109 |
| RGT Calabro | | | 111 | 109 | 124 |
| RGT Zanzibar | | | 111 | 116 | 102 |
| Stockade [Ⓢ] | | | | | 111 |
| Illabo [Ⓢ] | | | | | 104 |
| IMI-TOLERANT | | | | | |
| Valiant [Ⓢ] CL Plus | | | | 99 | 85 |
| Sowing date | | 4 Apr | 15 Apr | 14 Apr | 12 Apr |
| Rainfall J–M (mm) | | 204 | 156 | 213 | 229 |
| Rainfall A–O (mm) | | 198 | 542 | 419 | 582 |

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

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 2021 and 2022 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 11 NVT sites in Central NSW in 2021.

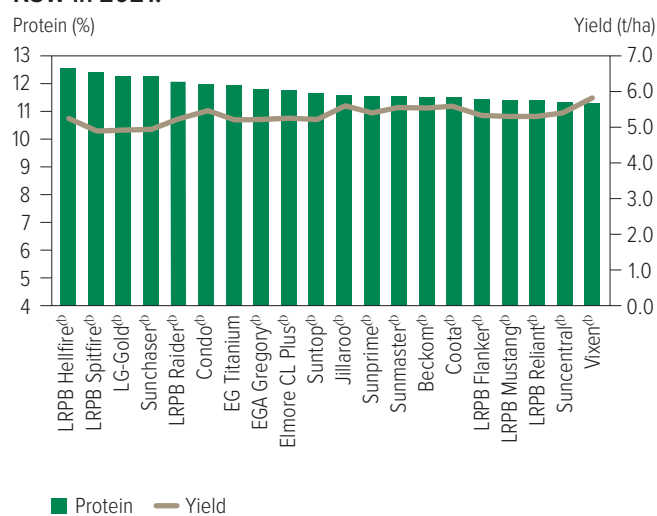


Figure 2: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from 10 NVT sites in Central NSW in 2022.

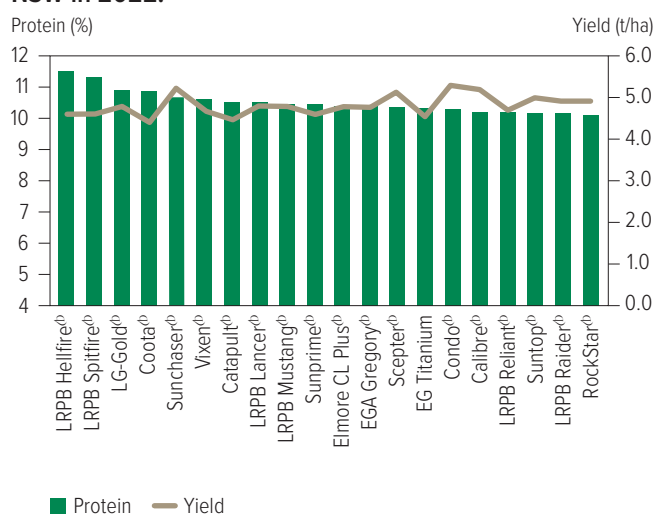


Figure 3: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from seven NVT sites in Central NSW in 2021.

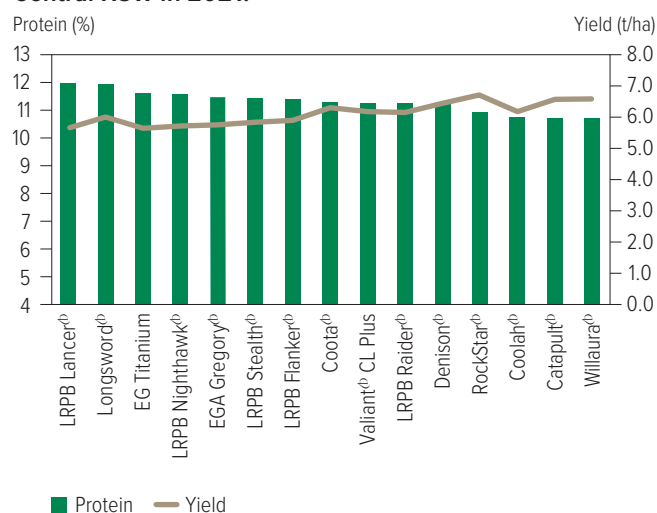
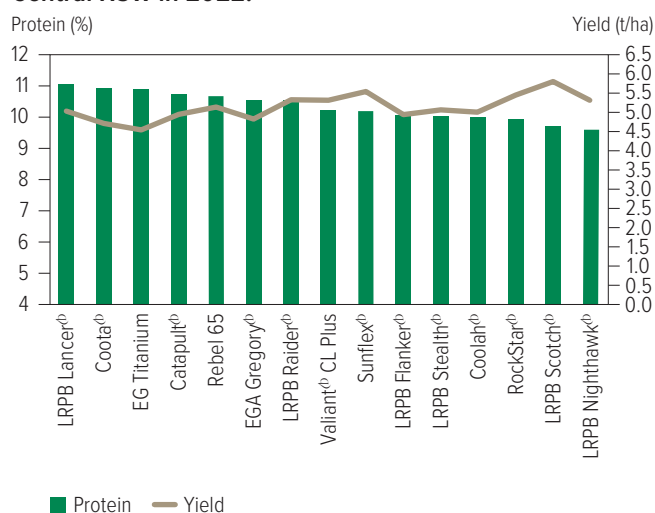


Figure 4: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from seven NVT sites in Central NSW in 2022.



WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

Figure 5: Protein (%) and yield (t/ha) comparisons for long season wheat varieties from three NVT sites in Central NSW in 2021.

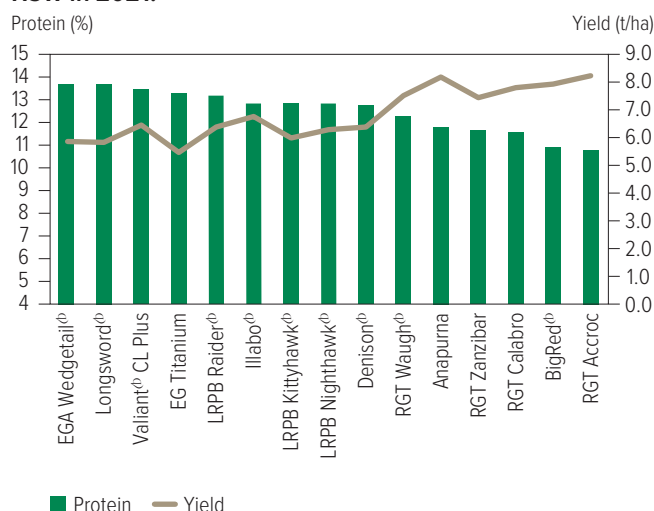
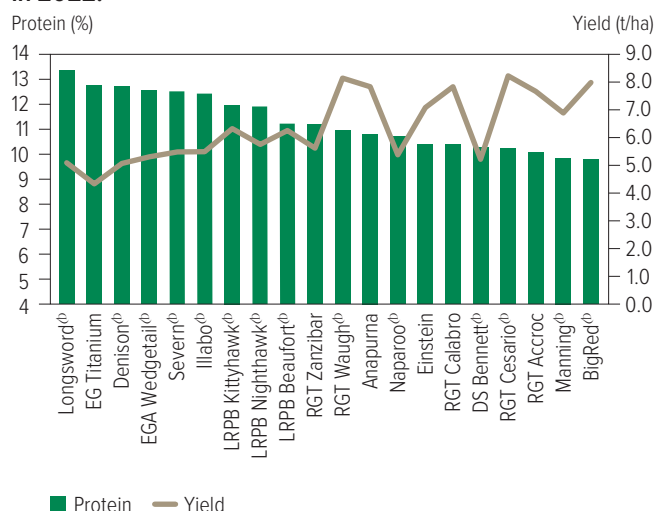


Figure 6: Protein (%) and yield (t/ha) comparisons for long season wheat varieties from two NVT sites in Central NSW in 2022.



Test weight comparisons

Figure 7: Test weight (kg/hL) comparisons for main season wheat varieties from 11 NVT sites in Central NSW in 2021.

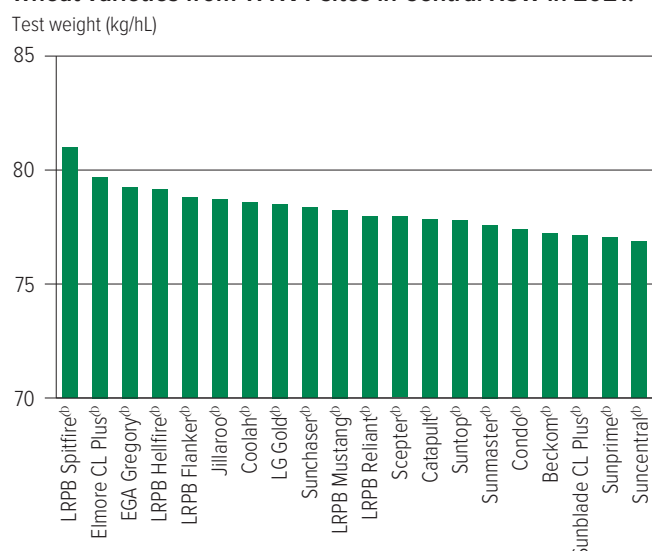


Figure 8: Test weight (kg/hL) comparisons for main season wheat varieties from 10 NVT sites in Central NSW in 2022.

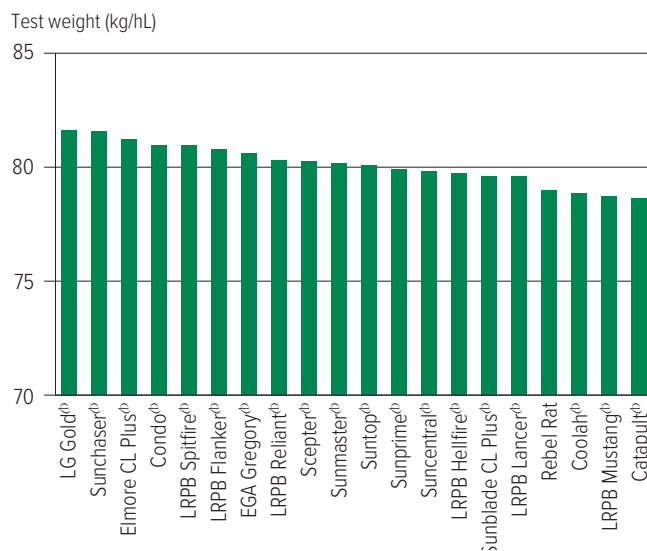


Figure 9: Test weight (kg/hL) comparisons for early season wheat varieties from seven NVT sites in Central NSW in 2021.

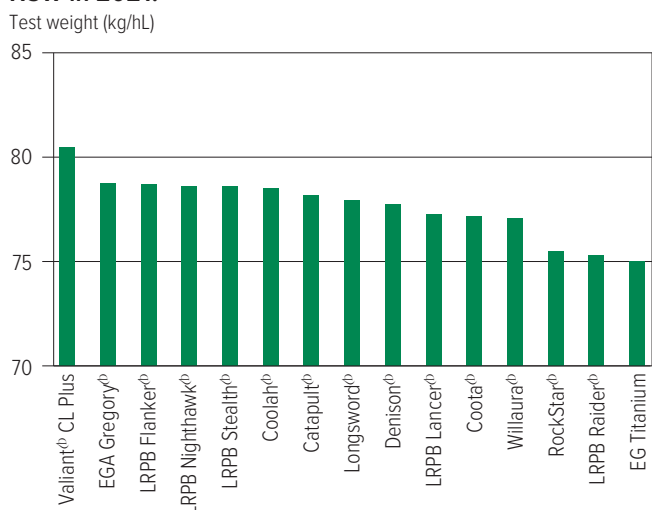
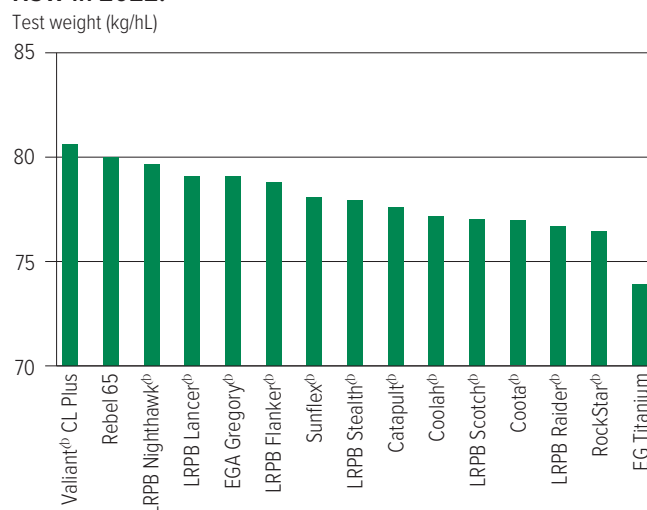


Figure 10: Test weight (kg/hL) comparisons for early season wheat varieties from seven NVT sites in Central NSW in 2022.



WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

Figure 11: Test weight (kg/hL) comparisons for long season wheat varieties from three NVT sites in Central NSW in 2021.

Test weight (kg/hL)

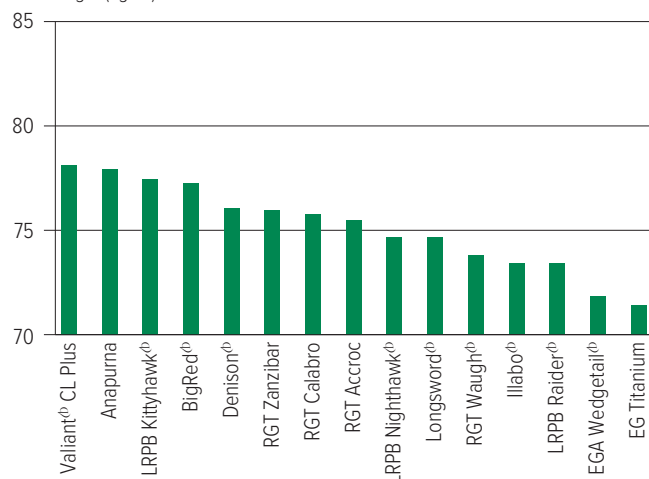
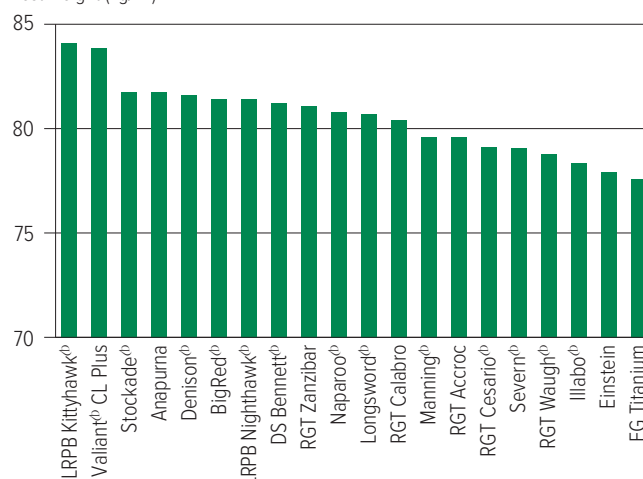


Figure 12: Test weight (kg/hL) comparisons for long season wheat varieties from two NVT sites in Central NSW in 2022.

Test weight (kg/hL)



Screenings comparisons

Figure 13: Screenings (<2.0mm) comparisons for main season wheat varieties from 11 NVT sites in Central NSW in 2021.

Screenings (%<2.0mm)

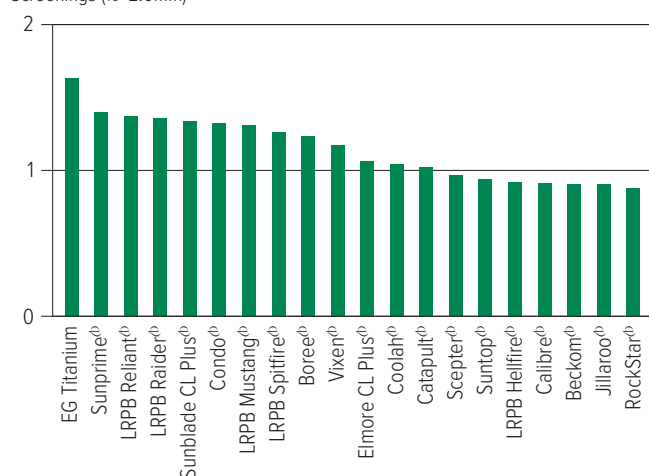


Figure 14: Screenings (<2.0mm) comparisons for main season wheat varieties from 10 NVT sites in Central NSW in 2022.

Screenings (%<2.0mm)

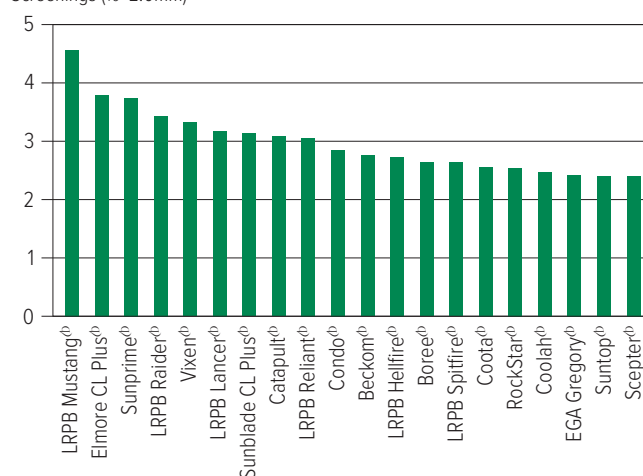


Figure 15: Screenings (<2.0mm) comparisons for early season wheat varieties from seven NVT sites in Central NSW in 2021.

Screenings (%<2.0mm)

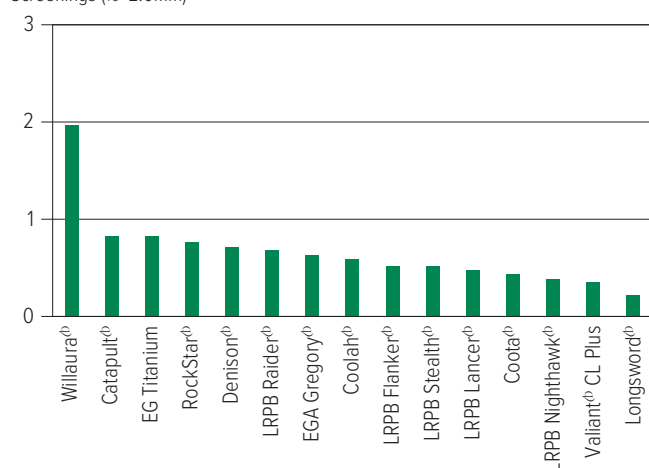
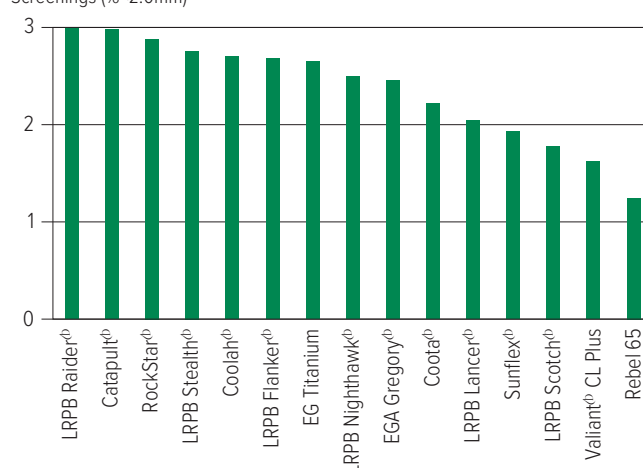


Figure 16: Screenings (<2.0mm) comparisons for early season wheat varieties from seven NVT sites in Central NSW in 2022.

Screenings (%<2.0mm)



WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

Figure 17: Screenings (<2.0mm) comparisons for long season wheat varieties from three NVT sites in Central NSW in 2021.

Screenings (%<2.0mm)

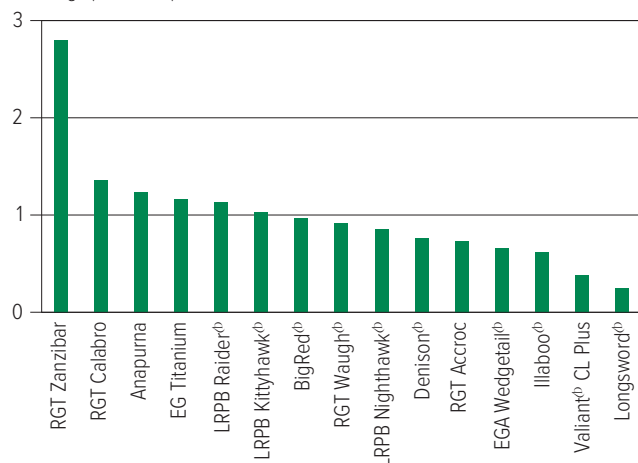
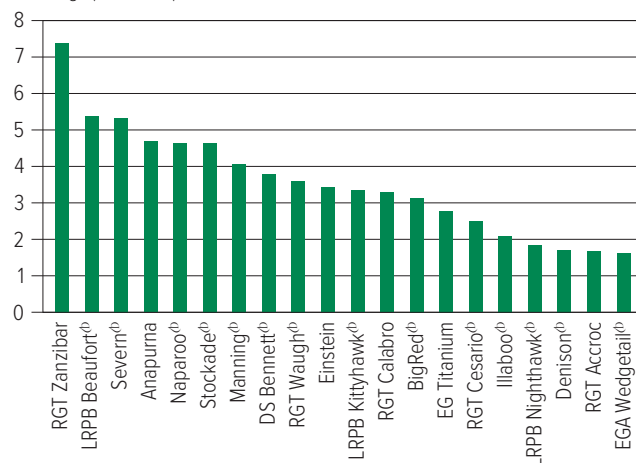


Figure 18: Screenings (<2.0mm) comparisons for long season wheat varieties from two NVT sites in Central NSW in 2022.

Screenings (%<2.0mm)



WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

Wheat variety disease ratings – New South Wales

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

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) | 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 | MRMS | MRMS | S (P) | | MS | | MRMS | MSS |
| Ascot ^{db} | S | RMR | MRMS | MSS | S | MRMS | S | MI | S | MI | MR | S |
| Ballista ^{db} | S | S | MR | MSS | SVS | MS | MRMS | MI | S | MTMI | MRMS | MS |
| Beckom ^{db} | S | MSS | MRMS | MRMS | S | MSS | MSS | TMT | S | MTMI | R | MRMS |
| BigRed ^{db} | S (P) | MRMS | S | RMR | MR | MR | MS | | MS | | S | MR (P) |
| Boree ^{db} | S | S | MR | SVS | SVS | MRMS | MSS | MII | S | I | MSS | S |
| Borlaug 100 ^{db} | MSS | MR | MR | SVS | MSS | MRMS | MS | T | S | T | MS | MSS |
| Brumby ^{db} | S | SVS | MR | MS | S | MRMS | MS | MI | MRMS | TMT | MRMS | MS (P) |
| Calibre ^{db} | S | S | MR | S | S | MRMS | MSS | MI | S | MT | MRMS | MS (P) |
| Catapult ^{db} | MSS | S | MR | S | MSS | MRMS | MS | MT | S | MII | R | S |
| Chief CL Plus ^{db} | MSS | MR | MR | SVS | S | MRMS | MSS | IVI | MRMS | MT | MS | MS |
| Condo ^{db} | S | S | MR | MS | S | MS | MS | TMT | S | MT | MR | MS |
| Coolah ^{db} | MSS | RMR | MR | MSS | MSS | MSS | MS | MT | S | MT | S | S |
| Coota ^{db} | MSS | MR | RMR | S | S | MSS | MS | MTMI | MR | MI | MR | MS |
| Cutlass ^{db} | S | RMR | R | MSS | MSS | MSS | MSS | MI | MSS | MT | MR | MS |
| Denison ^{db} | MSS | S | MS | S | MSS | MRMS | S | MI | S | MII | MS | MS |
| DS Bennett ^{db} | VS | SVS | MS | S | MSS | MRMS | S | | S | | S | MSS |
| DS Faraday ^{db} | MSS | R# | RMR | MS | MSS | MSS | MSS | MT | S | MTMI | MS | MSS |
| DS Pascal ^{db} | S | MS | MSS | MRMS | MSS | MS | S | IVI | S | MTMI | S | MS |
| DS Tull ^{db} | S | MSS | MR | MS | SVS | S | MSS | MTMI | MSS | MT | MSS | MRMS |
| EG Jet ^{db} | S | S | S | MRMS | MSS | MRMS | S | I | S | MI | MRMS | MS |
| EG Titanium | MSS | MS | MS | MR | MSS | MSS | MSS | MTMI | MSS | MTMI | R | MSS |
| EGA Gregory ^{db} | S | RMR# | MR | MS | MSS | S | MSS | MT | S | MT | S | MSS |
| EGA Wedgetail ^{db} | S | MSS | MRMS | MS | MSS | MSS | VS | MII | S | MII | S | MS |
| Emu Rock ^{db} | MSS | SVS | MS | SVS | S | MS | S | IVI | MSS | MI | S | MSS |
| Hammer CL Plus ^{db} | MSS | S | MR | MS | MSS | MRMS | S | I | MSS | MTMI | MRMS | MRMS |
| Illabo ^{db} | S | S | MRMS | MRMS | MSS | MS | MSS | MII | MSS | VI | MRMS | MRMS |
| Jillaroo ^{db} | S | S | MS | MSS | S | MRMS | MS (P) | I | S | I | MS | MSS (P) |
| Kingston ^{db} | S | S | S | MSS | S | MSS | MRMS | MTMI | S | MTMI | R | S |
| LG-Gold ^{db} | MSS | S | MSS | SVS | S | S | S | MII | S | MTMI | S | S |
| Longsword ^{db} | MSS | MR# | MR | R/S | MS | MRMS | MRMS | MI | MRMS | VI | MRMS | MS |
| LRPB Anvil ^{db} | MSS | SVS | MR | S | VS | MSS | S | VI | MSS | MII | MRMS | S (P) |
| LRPB Avenger ^{db} | SVS | S | MS | S | S (P) | MS | MS | MI | MSS | MI | MRMS | MS |
| LRPB Beaufort ^{db} | S | MSS | SVS | RMR | S | MRMS | MSS | MT | MS | MI | MS | MRMS |
| LRPB Cobra ^{db} | S | MR# | MR | S | MSS | MRMS | MSS | MI | MSS | MTMI | MS | MSS |
| LRPB Flanker ^{db} | MSS | RMR# | MR | MRMS | MSS | MSS | MSS | MT | S | MT | S | MS |
| LRPB Hellfire ^{db} | MSS | MSS | MR | MRMS | S | MSS | MSS | MI | MSS | MTMI | MS | S |
| LRPB Impala ^{db} | MSS | SVS | MR | MRMS | SVS | MSS | S | MII | SVS | MTMI | MSS | MS |
| LRPB Kittyhawk ^{db} | SVS | MR | MRMS (S) | MR | MRMS | MRMS | S | I | S | MI | S | MRMS |
| LRPB Lancer ^{db} | MSS | RMR | R | RMR | MS | MS | MS | TMT | S | MTMI | S | MRMS |
| LRPB Mustang ^{db} | MSS | MSS | MRMS | MR | S | MSS | MSS | MTMI | S | MI | MR | MS |

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

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

| Variety | Crown rot | Leaf rust | Stem rust | Stripe rust (east coast resistance) | 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 |
|--------------------------------|-----------|-----------|-----------|----------------------------------------|-------------------------|------------------|---------------------------------------------------|--------------------------------------------------|-----------------------------------------------------|----------------------------------------------------|----------|-------------|
| LRPB Nighthawk ^{db} | MSS | MSS | RMR | MRMS | MS | MS | MS | MI | MSS | IVI | MS | MS |
| LRPB Oryx ^{db} | MSS | RMR# | MR | MS | SVS | MSS | MSS | IVI | MSS | MII | S | MS |
| LRPB Parakeet ^{db} | MSS | R | MR | MR | SVS | MSS | S | MII | MRMS | MT | MS | MS |
| LRPB Raider ^{db} | S | RMR | RMR | MR | S | MSS | MS | MT | MSS | MTMI | S | S (P) |
| LRPB Reliant ^{db} | MS | RMR | R | MR | MSS | S | MSS | TMT | SVS | MTMI | MSS | MS |
| LRPB Scotch ^{db} | S | MR (P) | MSS | MRMS (P) | S (P) | MRMS | S | MTMI | MS | MTMI | MS | MS (P) |
| LRPB Spitfire ^{db} | MS | S | MR | MR (S) | S | S | MS | MTMI | MSS | MI | MS | MSS |
| LRPB Stealth ^{db} | MSS | RMR# | R | RMR | MSS | MS | S | MTMI | MSS | MTMI | S | MRMS |
| LRPB Trojan ^{db} | MS | MR# | MRMS | S | S | MSS | MSS | MI | MSS | MT | MS | MS |
| Mace ^{db} | S | S | MRMS | SVS | SVS | MRMS | MS | MT | MS | MII | MRMS | MRMS |
| Manning ^{db} | VS | MSS | MR | RMR | MRMS/S | MRMS | S | | MSS | | S | S |
| Razor CL Plus ^{db} | S | S | MRMS | MS | SVS | MSS | MS | MI | S | MT | MR | MS |
| Rebel 65 | MSS (P) | MS (P) | MSS (P) | MSS (P) | SVS | MSS (P) | MS | MT | S | TMT | MSS | MSS (P) |
| Rebel Rat | S (P) | MSS | MRMS | MS (P) | MSS (P) | MRMS | MSS | TMT | S | T | MRMS | MSS (P) |
| Reilly ^{db} | S | MSS | MR | MS | S | S | MSS | MTMI | MS | MTMI | R | MSS (P) |
| RGT Accroc ^{db} | SVS | SVS | MS | RMR | MS | MRMS | MSS | | S | | S | MRMS |
| RGT Calabro | SVS | MSS | MS | RMR | MRMS | MR | MS | | S | VI | S | MS |
| RGT Cesario ^{db} | VS | RMR | R | RMR | MRMS | MR | MSS | | MRMS | | MSS (P) | |
| RGT Waugh ^{db} | S | S | MS | RMR | MRMS | MRMS | MSS | | MS | | MS | MRMS (P) |
| RGT Zanzibar | S | SVS | VS | MRMS | MSS | MS | MS (P) | MI | S | IVI | MSS | MRMS |
| RockStar ^{db} | S | S | MRMS | S | S | MRMS | MS | MI | MRMS | I | MSS | MSS |
| Scepter ^{db} | MSS | MSS | MRMS | MSS | S | MRMS | MSS | MT | S | MTMI | MRMS | MS |
| SEA Condamine | MSS | RMR# | MRMS | MSS | VS | MSS | MS | MT | S | MT | S | MRMS |
| Severn ^{db} | S | MRMS | MS | RMR | MSS | MRMS | MRMS | | S | | MSS (P) | MR |
| Sheriff CL Plus ^{db} | S | SVS | MS | S | S | MRMS | MRMS | I | MRMS | MTMI | MS | MS |
| Stockade ^{db} | S | MR (P) | MS | MR | MS | MRMS | MSS | MTMI | S | MT | MRMS | MRMS (P) |
| Sunblade CL Plus ^{db} | S | MSS | MS | MRMS | S | MSS | MRMS | MT | MSS | MI | MSS | MRMS |
| Suncentral ^{db} | MSS | RMR | MRMS | MSS | S | MSS | MRMS | MT | MRMS | MI | S | MRMS |
| Sunchaser ^{db} | MSS | R | MR | RMR | MSS | MS | MSS | MT | MSS | MTMI | MSS | MRMS |
| Sunflex ^{db} | MSS | RMR/S | MR | MRMS | SVS | MS | MSS | MI | S | MI | MS | MSS |
| Sunmaster ^{db} | S | RMR# | MS | MRMS | S | MSS | MS | TMT | MRMS | MTMI | MSS | MR |
| Sunmax ^{db} | MSS | MS | MRMS | RMR | MSS | MSS | MS | MI | S | MT | MRMS | MRMS |
| Sunprime ^{db} | S | MR# | MS | MS | S | MSS | S | MT | S | MTMI | MS | MSS |
| Suntop ^{db} | MSS | MR | MRMS | MRMS | MSS | MSS | MRMS | TMT | S | MT | S | MSS |
| Valiant ^{db} CL Plus | S | S | MR | MSS | MSS | MRMS | S (P) | IVI | S | MII | MSS (P) | MS (P) |
| Vixen ^{db} | S | SVS | MRMS | SVS | S | MRMS | MS | I | MRMS | I | MSS | MSS |
| DURUM | | | | | | | | | | | | |
| Bitalli ^{db} | SVS | MR | RMR | MRMS | MSS | MRMS | RMR | MII | MSS | MI | MSS | MS |
| Caparoi ^{db} | VS | RMR | MR | MS | MRMS/S | MR | MR | MT | MS | MI | MRMS (P) | MSS |
| DBA Bindaroi ^{db} | SVS | MR | MR | MS | MS | MRMS | MR | MTMI | MRMS | MI | MS | MRMS |
| DBA Lillaro ^{db} | SVS | RMR | RMR | MS | S | MRMS | RMR | MT | MRMS | MI | S | MS |
| DBA Mataroi ^{db} | SVS | MR | MR | MS | MSS | MRMS | RMR | MI | MS | MT | MRMS | MS |
| DBA Spes ^{db} | VS | RMR | R | MS | S | MRMS | RMR | MI | MRMS | MTMI | MS | MS |
| DBA Vittaroi ^{db} | SVS | RMR | MR | MS | MSS | MRMS | MR | MI | MS | I | S | MSS |
| DBA-Artemis ^{db} | VS | RMR | MR | MRMS | MRMS/S | MRMS | MR | MTMI | MS | MII | MS | MS |
| Westcourt ^{db} | VS | RMR | RMR | MR | S | MRMS | MR | MT | MS | MI | MSS | MSS |

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.

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

BARLEY

New barley varieties

The following information is for barley varieties released in the 12 months to the date when the MET analysis was published on NVT online.

| Variety | Variety owner | Grain classification [#] | End point royalty* (\$) | Comments supplied by variety owner |
|-----------------------|-------------------------------|-----------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Combat [Ⓛ] | InterGrain | Feed | 3.50 | Mid-maturity suited to all regions. Semi-prostrate growth habit that will provide more weed competition than Rosalind [Ⓛ] . A potential variety replacement for Rosalind [Ⓛ] with a more competitive plant type. |
| Fandaga [Ⓛ] | AGF Seeds | Feed | None provided. | Slower maturity than RGT Planet [Ⓛ] . |
| Titan AX [Ⓛ] | Australian Grain Technologies | Under malt evaluation | 4.55 | The world's first CoAXium [®] barley variety. Mid-season maturity, slightly later than Compass [Ⓛ] , similar to RGT Planet [Ⓛ] . Agronomically similar to Compass [Ⓛ] . |
| Zena [Ⓛ] CL | InterGrain | Under malt evaluation | 4.25 | Zena [Ⓛ] CL is an imidazolinone-tolerant barley variety best-suited to medium-high rainfall environments. |

* EPR amount is ex-GST, [Ⓛ] denotes Plant Breeder's Rights apply, [#] barley malting quality accreditation correct at time of download (10 March 2023).

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

Refer to the latest *Crop Sowing Guide* for further information at grdc.com.au/nvt-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 | 2018 | 2019 | 2020 | 2021 | 2022 |
|-------------------------------------------------------|--------|--------|--------|--------|--------|
| Mean yield (t/ha) | | 1.33 | 4.53 | 5.20 | 5.75 |
| Combat [®] | | | | 121 | 104 |
| RGT Planet [®] | | 109 | 109 | 103 | 114 |
| Cyclops [®] | | | 104 | 113 | 103 |
| Minotaur [®] | | | 102 | 105 | 110 |
| Rosalind [®] | | 130 | 98 | 105 | 108 |
| Leabrook [®] | | 120 | 99 | 111 | 98 |
| Beast [®] | | 124 | 96 | 111 | 95 |
| Fathom [®] | | 109 | 102 | 110 | 94 |
| Laperouse [®] | | 119 | 96 | 103 | 99 |
| Bottler [®] | | 101 | 99 | 96 | 107 |
| HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE) | | | | | |
| Zena [®] CL | | | | 103 | 113 |
| Titan AX [®] | | | | | 94 |
| Commodus [®] CL | | | 96 | 107 | 91 |
| Maximus [®] CL | | 124 | 89 | 99 | 99 |
| Sowing date | 14 Jun | 23 May | 25 May | 26 May | 15 Jun |
| Rainfall J–M (mm) | 38 | 68 | 229 | 373 | 184 |
| Rainfall A–O (mm) | 91 | 69 | 396 | 252 | 581 |

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

Table 2: Gilgandra main season barley.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|-------------------------------------------------------|-------|--------|--------|--------|--------|
| Mean yield (t/ha) | 1.86 | 1.18 | 4.01 | 7.04 | 5.85 |
| Combat [®] | | | | 107 | 106 |
| RGT Planet [®] | 105 | 97 | 101 | 110 | 105 |
| Minotaur [®] | | | 111 | 103 | 102 |
| Yeti [®] | | 133 | 102 | 92 | 101 |
| Leabrook [®] | 114 | 113 | 96 | 98 | 100 |
| Laperouse [®] | 105 | 119 | 102 | 93 | 99 |
| Rosalind [®] | 101 | 101 | 100 | 98 | 99 |
| Cyclops [®] | | | 108 | 98 | 98 |
| Bottler [®] | 102 | 92 | 97 | 100 | 99 |
| Beast [®] | | 115 | 98 | 93 | 98 |
| HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE) | | | | | |
| Zena [®] CL | | | | 108 | 103 |
| Maximus [®] CL | 97 | 119 | 105 | 89 | 97 |
| Titan AX [®] | | | | | 97 |
| Commodus [®] CL | | | 93 | 91 | 96 |
| Sowing date | 7 Jun | 17 May | 19 May | 18 May | 24 May |
| Rainfall J–M (mm) | 141 | 99 | 307 | 394 | 180 |
| Rainfall A–O (mm) | 159 | 49 | 431 | 325 | 586 |

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

Table 3: Goonumbra main season barley.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|-------------------------------------------------------|-------|--------|--------|--------|--------|
| Mean yield (t/ha) | 2.90 | | 5.10 | 6.82 | 5.67 |
| RGT Planet [®] | 108 | | 107 | 118 | 114 |
| Minotaur [®] | | | 100 | 113 | 102 |
| Bottler [®] | 101 | | 103 | 108 | 104 |
| Combat [®] | | | | 99 | 104 |
| Rosalind [®] | 99 | | 101 | 104 | 99 |
| LG Alestar [®] | 98 | | 101 | 101 | 102 |
| Cyclops [®] | | | 96 | 105 | 97 |
| Leabrook [®] | 106 | | 102 | 95 | 96 |
| Beast [®] | | | 100 | 95 | 91 |
| Yeti [®] | | | 101 | 96 | 88 |
| HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE) | | | | | |
| Zena [®] CL | | | | 117 | 113 |
| Titan AX [®] | | | | | 94 |
| Spartacus CL [®] | 88 | | 95 | 98 | 86 |
| Commodus [®] CL | | | 99 | 86 | 89 |
| Sowing date | 5 Jun | 27 May | 18 May | 20 May | 24 May |
| Rainfall J–M (mm) | 38 | 92 | 211 | 241 | 178 |
| Rainfall A–O (mm) | 147 | 114 | 541 | 277 | 358 |

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

Table 4: Merriwa main season barley.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|-------------------------------------------------------|------|------|--------|--------|--------|
| Mean yield (t/ha) | | | 5.32 | 3.31 | 5.17 |
| RGT Planet [®] | | | 106 | 98 | 116 |
| Minotaur [®] | | | | 94 | 94 |
| Combat [®] | | | | 93 | 107 |
| Rosalind [®] | | | 103 | 103 | 101 |
| Laperouse [®] | | | 109 | 103 | 94 |
| Bottler [®] | | | 98 | 100 | 104 |
| Cyclops [®] | | | 109 | 104 | 89 |
| LG Alestar [®] | | | 89 | 108 | 105 |
| Yeti [®] | | | 112 | 91 | 92 |
| Leabrook [®] | | | 98 | 87 | 98 |
| HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE) | | | | | |
| Zena [®] CL | | | | 107 | 116 |
| Maximus [®] CL | | | 113 | 113 | 89 |
| Spartacus CL [®] | | | 105 | 104 | 79 |
| Titan AX [®] | | | | | 92 |
| Sowing date | | | 28 May | 26 May | 17 Jun |
| Rainfall J–M (mm) | | | 354 | 286 | 301 |
| Rainfall A–O (mm) | | | 411 | 251 | 600 |

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

Table 5: Nyngan main season barley.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|------------------------------------------------|----------|----------|--------------|--------|--------|
| Mean yield (t/ha) | | | | 4.21 | 5.75 |
| RGT Planet [®] | No trial | No trial | Trial failed | 112 | 112 |
| Combat [®] | | | | 111 | 106 |
| Minotaur [®] | | | | 103 | 110 |
| Leabrook [®] | | | | 105 | 100 |
| Yeti [®] | | | | 103 | 101 |
| Bottler [®] | | | | 101 | 101 |
| Rosalind [®] | | | | 99 | 101 |
| Beast [®] | | | | 101 | 98 |
| Cyclops [®] | | | | 93 | 101 |
| Laperouse [®] | | | | 97 | 98 |
| HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE) | | | | | |
| Zena [®] CL | | | | 106 | 108 |
| Titan AX [®] | | | | | 93 |
| Commodus [®] CL | | | | 97 | 91 |
| Maximus [®] CL | | | | 89 | 95 |
| Sowing date | | | 9 Jun | 12 May | 26 May |
| Rainfall J–M (mm) | | | 66 | 240 | 125 |
| Rainfall A–O (mm) | | | 212 | 181 | 593 |

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

Table 7: Wongarbron main season barley.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|------------------------------------------------|-------|--------------|--------|--------|--------|
| Mean yield (t/ha) | 2.88 | | 5.05 | 7.07 | 5.93 |
| RGT Planet [®] | 119 | Trial failed | 99 | 108 | 118 |
| Minotaur [®] | | | | 106 | 106 |
| Combat [®] | | | | 106 | 102 |
| Bottler [®] | 110 | | 95 | 99 | 108 |
| Rosalind [®] | 100 | | 105 | 97 | 102 |
| Yeti [®] | | | 119 | 93 | 94 |
| Leabrook [®] | 111 | | 95 | 99 | 100 |
| Cyclops [®] | | | 114 | 100 | 98 |
| Beast [®] | | | 100 | 96 | 98 |
| Laperouse [®] | 90 | | 117 | 93 | 91 |
| HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE) | | | | | |
| Zena [®] CL | | | | 105 | 114 |
| Maximus [®] CL | 75 | | 128 | 89 | 84 |
| Titan AX [®] | | | | | 94 |
| Spartacus CL [®] | 73 | | 115 | 90 | 91 |
| Sowing date | 8 Jun | 21 May | 14 May | 19 May | 25 May |
| Rainfall J–M (mm) | 83 | 173 | 331 | 364 | 227 |
| Rainfall A–O (mm) | 187 | 89 | 516 | 345 | 751 |

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

Table 6: Quandialla main season barley.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|------------------------------------------------|-------------------|--------|--------|--------|--------|
| Mean yield (t/ha) | | 0.97 | 5.02 | 4.38 | 5.22 |
| RGT Planet [®] | Compromised trial | 94 | 115 | 119 | 112 |
| Combat [®] | | | | 112 | 112 |
| Minotaur [®] | | | 120 | 105 | 107 |
| Rosalind [®] | | 135 | 115 | 106 | 104 |
| Fandaga [®] | | | | 109 | 113 |
| Cyclops [®] | | | 116 | 99 | 104 |
| Bottler [®] | | 91 | 102 | 104 | 105 |
| Yeti [®] | | 133 | 107 | 90 | 98 |
| La Trobe [®] | | 128 | 102 | 100 | 93 |
| Laperouse [®] | | 115 | 107 | 91 | 98 |
| HERBICIDE TOLERANT (GROUP 1 AND IMIDAZOLINONE) | | | | | |
| Zena [®] CL | | | | 106 | 111 |
| Maximus [®] CL | | 135 | 112 | 95 | 92 |
| Spartacus CL [®] | | 131 | 105 | 96 | 91 |
| Titan AX [®] | | | | | 101 |
| Sowing date | 20 May | 25 May | 11 May | 18 May | 24 May |
| Rainfall J–M (mm) | 85 | 185 | 175 | 262 | 197 |
| Rainfall A–O (mm) | 117 | 120 | 435 | 373 | 590 |

Special thanks to 2022 trial cooperator, Stephen and Jennifer Kelly.
Learn more via the [NVT Long Term Yield Reporter](#)

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

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 2021 and 2022 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 2021.

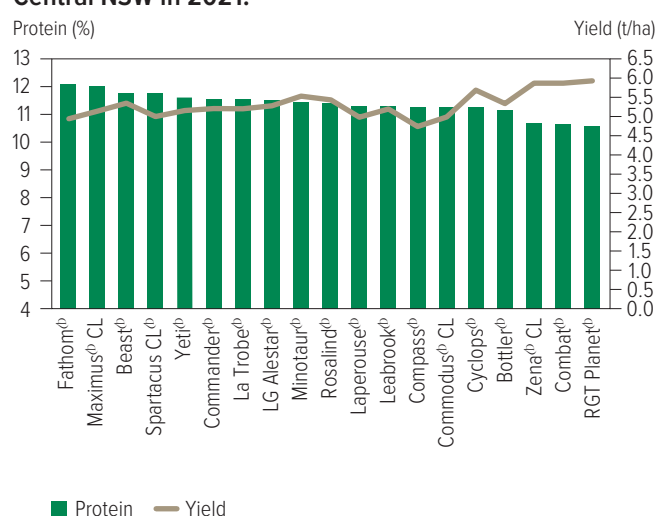
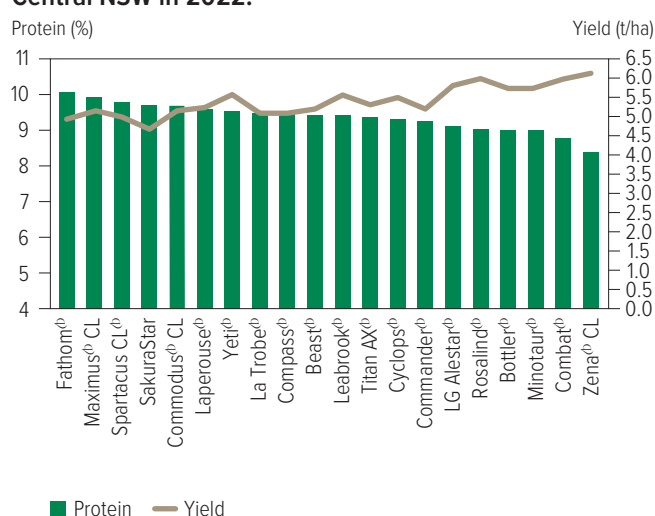


Figure 2: Protein (%) and yield (t/ha) comparisons for main season barley varieties from seven NVT sites in Central NSW in 2022.



Test weight comparisons

Figure 3: Test weight (kg/hL) comparisons for main season barley varieties from seven NVT sites in Central NSW in 2021.

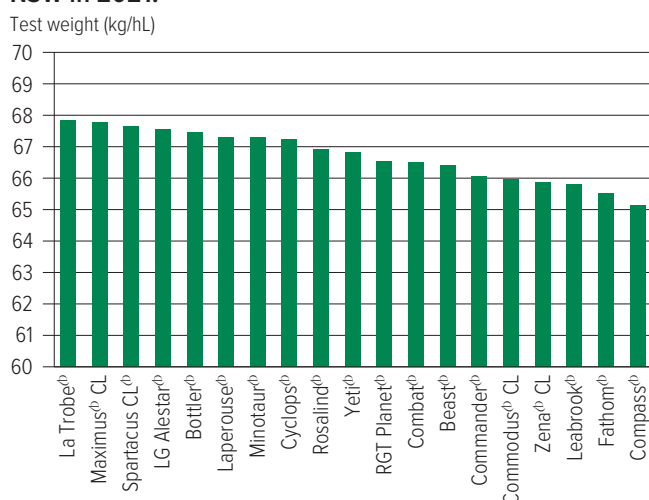
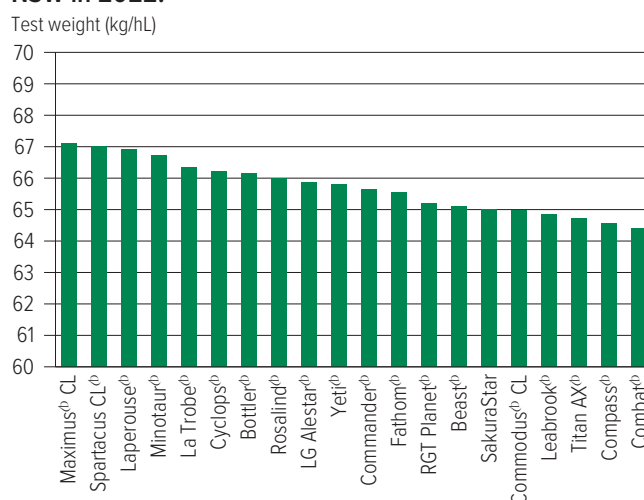


Figure 4: Test weight (kg/hL) comparisons for main season barley varieties from seven NVT sites in Central NSW in 2022.



WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

Screenings comparisons

Figure 5: Screenings (<2.2mm) comparisons for main season barley varieties from seven NVT sites in Central NSW in 2021.

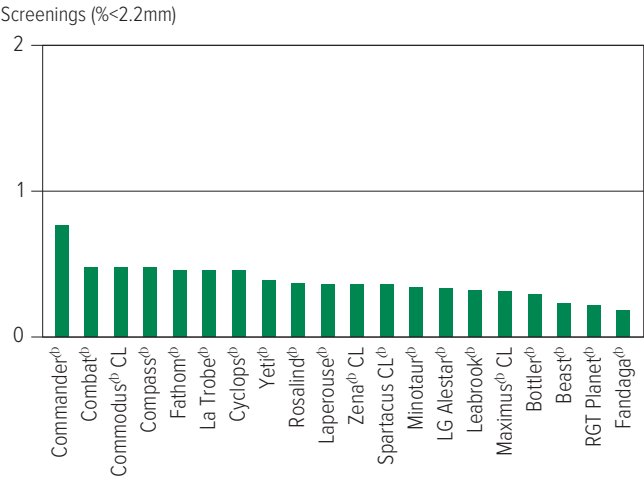
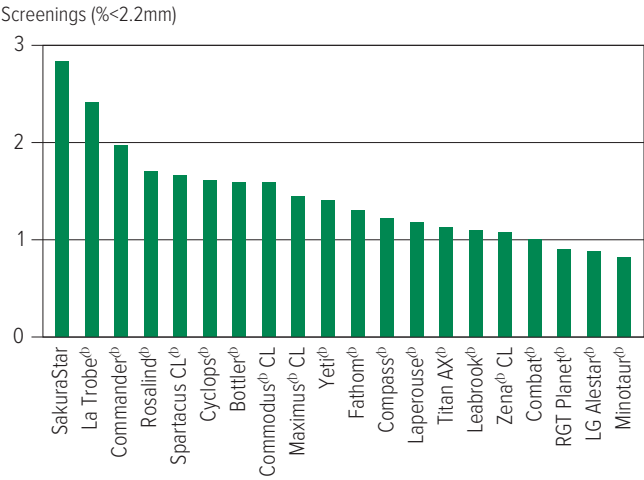


Figure 6: Screenings (<2.2mm) comparisons for main season barley varieties from seven NVT sites in Central NSW in 2022.



Retention comparisons

Figure 7: Retention (>2.5mm) comparisons for main season barley varieties from seven NVT sites in Central NSW in 2021.

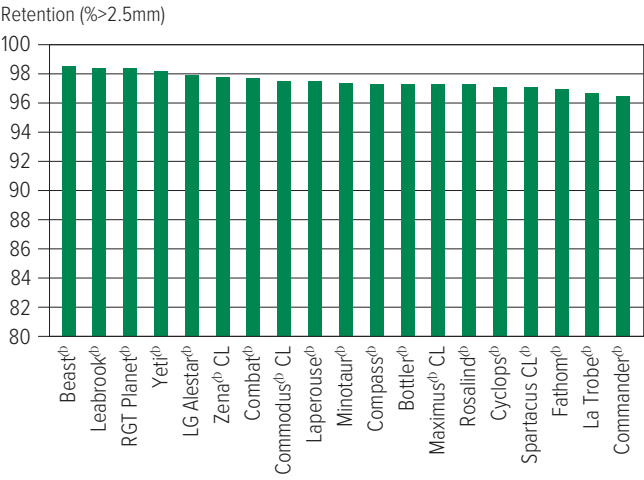
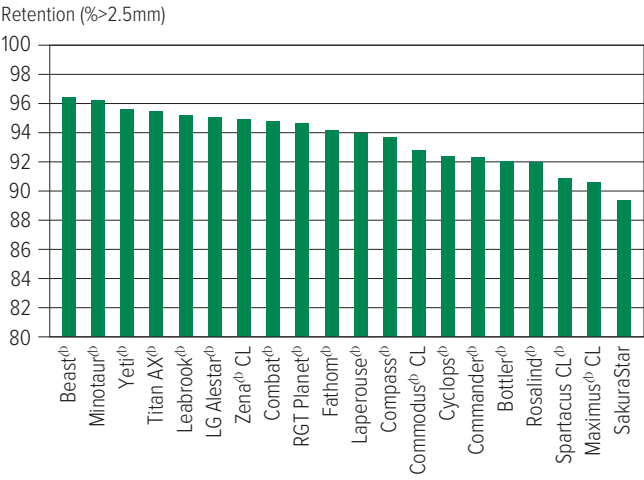


Figure 8: Retention (>2.5mm) comparisons for main season barley varieties from seven NVT sites in Central NSW in 2022.



Barley variety disease ratings – New South Wales

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

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 | 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 |
|----------------------------|------------|---------------------|----------------------|----------------|-----------|--------------------------|-----------|--------------------|---------------------------------------------------|--------------------------------------------------|-----------------------------------------------------|----------------------------------------------------|-----------|
| Beast ^{db} | SVS | MSS | MS | S | MSS | R | S | MR | MRMS | T | MRMS | MI | SVS (P) |
| Bottler ^{db} | SVS | MRMS | MSS | RMR | MR | R-RMR | SVS | | RMR | MI | MS | MT | SVS (P) |
| Buff ^{db} | SVS | MS | MSS | S | SVS | R | S | | MS | MI | MRMS | MT | SVS (P) |
| Combat ^{db} | MSS | MSS | MR | MS | S | R | S (P) | MRMS | MS | | MR | | SVS (P) |
| Commander ^{db} | SVS | S | MSS | MSS | SVS | R | S | R | MRMS | MT | MRMS | MTMI | SVS (P) |
| Commodus ^{db} CL | SVS | MS | MSS | MS | MS | RMR | S (P) | R | MRMS | MTMI | MRMS | TMT | SVS (P) |
| Compass ^{db} | S | MSS | MS | MSS | S | R | S | R | MR | TMT | MRMS | TMT | SVS (P) |
| Cyclops ^{db} | S | MS | MS | S | S | R | S (P) | S | MRMS | MTMI | MRMS | MI | SVS (P) |
| Fandaga ^{db} | SVS | MRMS | S | R | MR | R-MR | MSS (P) | R | MR | | MR | | VS (P) |
| Fathom ^{db} | S | S | MR | MRMS | MS | RMR | SVS | R | MR | TMT | MRMS | T | SVS (P) |
| La Trobe ^{db} | SVS | MRMS | S | MSS | MS | R | S | R | MRMS | MT | MRMS | MT | SVS (P) |
| Laperouse ^{db} | SVS | MS | MRMS | MSS | SVS | R-MR | S | S | MR | MTMI | MR | MI | VS (P) |
| Leabrook ^{db} | SVS | MS | MS | S | SVS | RMR | S | RMR | RMR | TMT | MRMS | MT | VS (P) |
| LG Alestar ^{db} | SVS | MS | S | MR | MRMS | R | S | R ^a (P) | MR | MTMI | MR | I | SVS (P) |
| Maximus ^{db} CL | S | MRMS | MS | MS | MSS | R | S | R | MR | MTMI | MRMS | MT | VS (P) |
| Minotaur ^{db} | VS | MRMS | S | S | SVS | R | MS | R | MR | MT | MRMS | MI | SVS (P) |
| RGT Planet ^{db} | MSS | MSS | SVS | RMR | MR | R-RMR | MSS | R (P) | MR | MI | MRMS | MT | VS (P) |
| Rosalind ^{db} | MSS | MR | MSS | MSS | MR | R | MSS | R | MR | TMT | MRMS | MT | VS (P) |
| SakuraStar | SVS | MS | MSS | MSS | S | RMR | S | R | MR | MI | MR | MT | VS (P) |
| Spartacus CL ^{db} | SVS | MSS | S | MSS | MRMS | R | S | R | MRMS | MI | MRMS | MII | VS (P) |
| Titan AX ^{db} | SVS | MS | MSS | MS | S | R | MSS (P) | MR (P) | MR | | R | | VS (P) |
| Yeti ^{db} | VS | MS | MRMS | MSS | S | MR | S | RMR | MR | TMT | MR | TMT | VS (P) |
| Zena ^{db} CL | MS | MS | MSS | R | S | RMR | MSS (P) | R | MR | | MRMS | | VS (P) |

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

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant, (P) = provisional rating, - hyphen indicates a range, ^ line contains a few susceptible off types.

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

OAT

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.

| Variety | Variety owner | Grain classification | End point royalty* (\$) | Comments supplied by variety owner |
|--------------------|-------------------------------|----------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Koala [Ⓛ] | National Oat Breeding Program | Grain | None provided. | High-yielding, tall dwarf variety with similar height to Bannister [Ⓛ] and taller than Mitika [Ⓛ] , Bilby [Ⓛ] or Kowari [Ⓛ] . Koala [Ⓛ] has a mid-season maturity that can be seven days later to head compared with Bannister [Ⓛ] and Williams [Ⓛ] . Early vigour is similar to Bannister [Ⓛ] and slightly slower than Bilby [Ⓛ] and Yallara [Ⓛ] . Commercialised by Seednet. |

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

Refer to the latest *Crop Sowing Guide* for further information at grdc.com.au/nvt-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 | 2018 | 2019 | 2020 | 2021 | 2022 |
|------------------------|--------|--------|--------|--------|--------|
| Mean yield (t/ha) | 2.83 | 1.18 | 4.32 | 6.21 | 6.07 |
| Koala [Ⓢ] | 103 | 95 | 118 | 111 | 107 |
| Bannister [Ⓢ] | 104 | 105 | 110 | 109 | 108 |
| Williams [Ⓢ] | 97 | 110 | 109 | 102 | 107 |
| Bilby [Ⓢ] | 97 | 104 | 99 | 104 | 103 |
| Possum | 95 | 91 | 97 | 97 | 95 |
| Kowari [Ⓢ] | 94 | 98 | 94 | 96 | 97 |
| Mitika [Ⓢ] | 92 | 95 | 92 | 91 | 93 |
| Yallara [Ⓢ] | 107 | 95 | 89 | 73 | 83 |
| Koorabup [Ⓢ] | 102 | 91 | 92 | 72 | 82 |
| Durack [Ⓢ] | 95 | 92 | 84 | 77 | 84 |
| Sowing date | 24 May | 26 May | 19 May | 17 May | 18 May |
| Rainfall J–M (mm) | 76 | 131 | 151 | 330 | 229 |
| Rainfall A–O (mm) | 174 | 145 | 542 | 451 | 582 |

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

Table 2: Condobolin oat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|------------------------|--------------|--------|--------|--------|--------|
| Mean yield (t/ha) | | 1.13 | 3.89 | 4.84 | 5.91 |
| Koala [Ⓢ] | Trial failed | 68 | 103 | 109 | 112 |
| Bannister [Ⓢ] | | 96 | 105 | 104 | 109 |
| Williams [Ⓢ] | | 106 | 103 | 101 | 105 |
| Bilby [Ⓢ] | | 116 | 102 | 99 | 103 |
| Kowari [Ⓢ] | | 112 | 98 | 97 | 96 |
| Possum | | 93 | 97 | 100 | 97 |
| Mitika [Ⓢ] | | 105 | 96 | 97 | 92 |
| Durack [Ⓢ] | | 97 | 90 | 93 | 80 |
| Yallara [Ⓢ] | | 73 | 88 | 95 | 77 |
| Koorabup [Ⓢ] | | 66 | 87 | 96 | 77 |
| Sowing date | 13 Jun | 23 May | 22 May | 26 May | 15 Jun |
| Rainfall J–M (mm) | 38 | 68 | 229 | 373 | 184 |
| Rainfall A–O (mm) | 91 | 69 | 396 | 252 | 581 |

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

Table 3: Coolah oat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|------------------------|----------|----------|--------|-----------------------------------|-----------------------------------|
| Mean yield (t/ha) | | | 5.03 | | |
| Williams [Ⓢ] | No trial | No trial | 106 | Compromised trial | Compromised trial |
| Bannister [Ⓢ] | | | 106 | | |
| Bilby [Ⓢ] | | | 103 | | |
| Kowari [Ⓢ] | | | 97 | | |
| Koala [Ⓢ] | | | 95 | | |
| Yallara [Ⓢ] | | | 93 | | |
| Mitika [Ⓢ] | | | 92 | | |
| Possum | | | 90 | | |
| Durack [Ⓢ] | | | 89 | | |
| Koorabup [Ⓢ] | | | 87 | | |
| Sowing date | | | 15 May | 20 May | 16 Jun |
| Rainfall J–M (mm) | | | 341 | 279 | 293 |
| Rainfall A–O (mm) | | | 537 | 359 | 575 |

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

Table 4: Quandialla oat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|------------------------|-----------------------------------|--------|--------|--------|-------|
| Mean yield (t/ha) | | 1.03 | 3.93 | 4.46 | 5.06 |
| Bannister [Ⓢ] | Compromised trial | 99 | 105 | 108 | 111 |
| Koala [Ⓢ] | | 81 | 94 | 111 | 118 |
| Williams [Ⓢ] | | 79 | 101 | 107 | 108 |
| Bilby [Ⓢ] | | 103 | 101 | 100 | 102 |
| Kowari [Ⓢ] | | 100 | 96 | 95 | 95 |
| Possum | | 93 | 90 | 95 | 97 |
| Mitika [Ⓢ] | | 89 | 92 | 92 | 91 |
| Yallara [Ⓢ] | | 94 | 102 | 92 | 74 |
| Koorabup [Ⓢ] | | 76 | 94 | 92 | 76 |
| Durack [Ⓢ] | | 92 | 93 | 86 | 76 |
| Sowing date | 20 May | 25 May | 11 May | 18 May | 9 May |
| Rainfall J–M (mm) | 85 | 185 | 175 | 262 | 197 |
| Rainfall A–O (mm) | 117 | 120 | 435 | 373 | 590 |

Special thanks to 2022 trial cooperator, Stephen and Jennifer Kelly.
Learn more via the [NVT Long Term Yield Reporter](#)

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

Table 5: Wellington oat.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|-------------------------|--------|--------------|--------|--------|--------|
| Mean yield (t/ha) | 2.49 | | 4.24 | 5.54 | 6.78 |
| Koala ^{db} | 107 | Trial failed | 107 | 110 | 116 |
| Williams ^{db} | 104 | | 112 | 114 | 105 |
| Bannister ^{db} | 105 | | 108 | 110 | 109 |
| Bilby ^{db} | 97 | | 101 | 99 | 100 |
| Koorabup ^{db} | 107 | | 95 | 101 | 86 |
| Possum | 96 | | 93 | 92 | 97 |
| Yallara ^{db} | 108 | | 94 | 100 | 85 |
| Kowari ^{db} | 95 | | 96 | 93 | 94 |
| Mitika ^{db} | 94 | | 94 | 92 | 91 |
| Durack ^{db} | 97 | | 89 | 89 | 82 |
| Sowing date | 23 May | 2 May | 19 May | 17 May | 19 May |
| Rainfall J–M (mm) | 43 | 157 | 365 | 289 | 286 |
| Rainfall A–O (mm) | 223 | 130 | 429 | 292 | 731 |

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

Oat variety disease ratings – New South Wales

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

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 6: 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) | Red leather leaf | Bacterial blight |
|-------------------------|-----------|---------------------------------------|---------------------------------------|----------------------------------|------------------|------------------|
| Bannister ^{db} | S | MSS | MSS | MS | MSS | S |
| Bilby ^{db} | S | MS | MS | S | MS | SVS |
| Durack ^{db} | S | MSS | MSS | S | SVS | S |
| Koala ^{db} | MSS | MSS | MSS | MSS | S | S |
| Koorabup ^{db} | S | MSS | MSS | MSS | SVS | SVS |
| Kowari ^{db} | S | S | S | S | S | S |
| Mitika ^{db} | S | MSS | MSS | SVS | SVS | S |
| Mulgara ^{db} | MRMS | MR | MR | MS | SVS | MSS |
| Possum | SVS | MSS | MSS | S | SVS | SVS |
| Tungoo ^{db} | MS | MR | MR | MSS | MRMS | S |
| Williams ^{db} | S | MRMS | MRMS | MSS | MS | MSS |
| Yallara ^{db} | MSS | S | S | MSS | SVS | S |

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

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

CANOLA

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.

| Variety | Variety owner | End point royalty* (\$) | Comments supplied by variety owner |
|--------------------------------|-------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bandit TT [Ⓛ] | Australian Grain Technologies | 10.00 | Triazine-tolerant, open-pollinated variety suitable to low rainfall environments. Very quick to flower. |
| DG Hotham TF | Nutrien Ag Solutions Ltd | - | Mid-maturing glyphosate tolerant TruFlex [®] hybrid. Medium to tall plant height. Suited to medium to high-rainfall zones. |
| DG Torrens TT [Ⓛ] | Nutrien Ag Solutions Ltd | 5.00 | Early-mid maturing, open-pollinated, triazine-tolerant variety. Short-medium plant height. Suited to low-medium rainfall zones. |
| Hyola [®] Regiment XC | Pacific Seeds | - | Mid-maturity dual-herbicide stacked TruFlex [®] and Clearfield [®] hybrid. Suitable for medium and high-rainfall zones, dryland and irrigation. Medium height, vigorous early growth and even flowering. |
| Hyola [®] Solstice CL | Pacific Seeds | - | Mid-maturity Clearfield [®] tolerant hybrid. Suitable for medium and high-rainfall zones, dryland and irrigation. Medium height, vigorous early growth and even flowering. |
| HyTTec [®] Velocity | Nuseed Pty Ltd | 5.00 | An early maturing variety that exhibits impressive early vigour, with a compact plant height and improved pod shatter tolerance built in to improve harvesting. |
| InVigor [®] T 4511 | BASF Australia | - | InVigor [®] T 4511 is an early-mid triazine-tolerant hybrid of medium height. With excellent early vigour InVigor [®] T 4511 is ideally suited to early and mid-season growing regions. With higher seedling vigour, higher oil and better blackleg tolerance InVigor [®] T 4511 is a replacement for InVigor [®] T 3510 and InVigor [®] T 4510. |
| Nuseed [®] Eagle TF | Nuseed Pty Ltd | - | A mid-maturity TruFlex [®] hybrid that performs well in mid to high-rainfall zones. Nuseed [®] Eagle TF gives growers confidence with extremely good early vigour and biomass, increasing integrated weed management options. |
| Nuseed [®] Hunter TF | Nuseed Pty Ltd | - | An early-mid maturity TruFlex [®] hybrid canola with adaptability from low to high-rainfall regions. It has improved pod shatter tolerance with a compact plant height, reducing head loss, and is suitable for medium to quick-growing regions. |
| PY520TC | Pioneer Hi-Bred Aust Pty Ltd | - | A mid-maturity hybrid suited to medium-long season environments. Triazine-tolerant and Clearfield [®] -tolerant variety. |
| Renegade TT [Ⓛ] | Australian Grain Technologies | 10.00 | Triazine-tolerant, open-pollinated variety. Quick to flower with best performance under medium yield potential conditions. |
| RGT Baseline TT | RAGT | 10.00 | Mid-maturing triazine-tolerant hybrid variety. Suited to medium to high-rainfall zones. Medium-tall height. Marketed by Seed Force, an RAGT Company. |
| VICTORY [®] V55-04TF | Cargill | - | First release TruFlex [®] high stability oil hybrid in Australia. Mid-maturity variety. Preferred growing regions Victoria, South Australia and southern NSW. Medium height, replacing VICTORY [®] V5003RR. Marketed by AWB under contract. |

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

Refer to the latest *Crop Sowing Guide* for further information at grdc.com.au/nvt-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 | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------|--------------|--------------|--------|--------|--------------|
| Mean yield (t/ha) | | | 3.20 | 2.89 | |
| Nuseed® Condor TF | Trial failed | Trial failed | 112 | 110 | Trial failed |
| Nuseed® Eagle TF | | | | 109 | |
| Pioneer® 44Y30 RR | | | | 109 | |
| Nuseed® Raptor TF | | | 111 | 106 | |
| InVigor® R 4520P | | | 107 | 110 | |
| Hyola® Regiment XC | | | | 107 | |
| Pioneer® 45Y28 RR | | | | 107 | |
| InVigor® R 4022P | | | 100 | 102 | |
| Hyola® Garrison XC | | | 96 | 95 | |
| VICTORY® V55-04TF | | | | 95 | |
| Sowing date | 9 May | 7 May | 21 Apr | 20 Apr | 26 Apr |
| Rainfall J–M (mm) | 71 | 145 | 126 | 317 | 239 |
| Rainfall A–O (mm) | 174 | 127 | 512 | 421 | 616 |

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

Table 2: Parkes med-high rainfall GLY.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|---------------------|--------------|--------------|--------|-------------------|--------------|
| Mean yield (t/ha) | | | 2.80 | | |
| InVigor® R 4520P | Trial failed | Trial failed | 111 | Compromised trial | Trial failed |
| Pioneer® 43Y29 RR | | | 109 | | |
| InVigor® R 4022P | | | 102 | | |
| Nuseed® Condor TF | | | 102 | | |
| Pioneer® 44Y27 RR | | | 99 | | |
| Nuseed® Raptor TF | | | 98 | | |
| Nuseed® GT-53 | | | 97 | | |
| Nuseed® Emu TF | | | 90 | | |
| Hyola® Battalion XC | | | 90 | | |
| Hyola® Garrison XC | | | 89 | | |
| Sowing date | 3 May | 9 May | 17 Apr | 20 Apr | 27 May |
| Rainfall J–M (mm) | 62 | 98 | 196 | 241 | 178 |
| Rainfall A–O (mm) | 127 | 114 | 465 | 277 | 358 |

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

Table 3: Condobolin low-med rainfall GLY.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|---------------------|-----------------------------|--------|--------|-------|--------|
| Mean yield (t/ha) | 0.52 | 1.19 | 3.06 | 2.98 | 2.65 |
| Pioneer® 44Y30 RR | Listed varieties not tested | | | 102 | 101 |
| Nuseed® Hunter TF | | | | | 107 |
| InVigor® R 4520P | | 102 | 104 | 105 | 106 |
| Nuseed® Raptor TF | | | 110 | 98 | 95 |
| Pioneer® 44Y27 RR | | 105 | 95 | 105 | 106 |
| Hyola® Garrison XC | | 103 | 110 | | 93 |
| InVigor® R 4022P | | 107 | 94 | 100 | 99 |
| Hyola® 410XX | | 95 | 106 | 95 | 94 |
| Hyola® Battalion XC | | | 94 | 94 | 91 |
| DG Lofty TF | | | | 90 | 86 |
| Sowing date | 9 May | 24 Apr | 17 Apr | 7 May | 25 Apr |
| Rainfall J–M (mm) | 38 | 68 | 229 | 373 | 184 |
| Rainfall A–O (mm) | 91 | 69 | 396 | 252 | 581 |

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

Table 4: Trangie low-med rainfall GLY.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|---------------------|----------|--------------|--------|--------|--------|
| Mean yield (t/ha) | | | 2.29 | 2.93 | 2.64 |
| InVigor® R 4520P | No trial | Trial failed | 119 | 104 | 125 |
| Pioneer® 44Y27 RR | | | 102 | 105 | 112 |
| Pioneer® 44Y30 RR | | | | 103 | 106 |
| InVigor® R 4022P | | | 106 | 100 | 108 |
| Nuseed® Raptor TF | | | 108 | 99 | 104 |
| Hyola® Garrison XC | | | 97 | | 88 |
| DG Lofty TF | | | | 91 | 85 |
| Hyola® Battalion XC | | | 92 | 95 | 85 |
| Hyola® 410XX | | | 92 | 96 | 82 |
| Nuseed® Emu TF | | | 82 | 97 | 87 |
| Sowing date | | 1 May | 21 Apr | 21 Apr | 20 Apr |
| Rainfall J–M (mm) | | 92 | 193 | 303 | 173 |
| Rainfall A–O (mm) | | 45 | 325 | 271 | 623 |

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

Table 5: Cudal med-high rainfall IMI.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------|-------|-------|--------|--------|-------|
| Mean yield (t/ha) | 0.98 | 0.69 | 3.56 | 4.23 | 3.18 |
| Pioneer® 45Y95 CL | | | | 116 | 118 |
| Pioneer® 44Y94 CL | | 123 | 112 | 114 | 117 |
| Hyola® Solstice CL | | | | | 110 |
| Pioneer® 45Y93 CL | | 95 | 108 | 110 | 111 |
| Pioneer® 44Y90 CL | 102 | 104 | 105 | | |
| Hyola® Equinox CL | | | 100 | 101 | |
| PY520TC | | | | | 105 |
| Pioneer® 43Y92 CL | 100 | | 102 | | |
| Pioneer® 45Y91 CL | 91 | 86 | 99 | | |
| VICTORY® V75-03CL | 93 | 66 | 93 | 92 | |
| Sowing date | 2 May | 1 May | 17 Apr | 21 Apr | 3 May |
| Rainfall J–M (mm) | 87 | 136 | 200 | 287 | 235 |
| Rainfall A–O (mm) | 153 | 130 | 555 | 380 | 616 |

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

Table 7: Grenfell med-high rainfall IMI.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|-------------------|--------------|--------------|--------|--------|--------------|
| Mean yield (t/ha) | | | 3.34 | 2.90 | |
| Pioneer® 44Y94 CL | | | 118 | 116 | |
| Pioneer® 45Y95 CL | | | | 116 | |
| Pioneer® 45Y93 CL | | | | 110 | |
| Pioneer® 44Y90 CL | Trial failed | Trial failed | 107 | | Trial failed |
| Pioneer® 43Y92 CL | | | 105 | | |
| Hyola® Equinox CL | | | 101 | 101 | |
| VICTORY® V75-03CL | | | 91 | 90 | |
| VICTORY® V7002CL | | | 84 | | |
| Sowing date | 9 May | 7 May | 21 Apr | 20 Apr | 26 Apr |
| Rainfall J–M (mm) | 71 | 145 | 126 | 317 | 239 |
| Rainfall A–O (mm) | 174 | 127 | 512 | 421 | 616 |

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

Table 9: Wellington med-high rainfall IMI.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------|--------|--------------|--------|--------|--------|
| Mean yield (t/ha) | 0.95 | | 2.74 | 3.19 | 2.77 |
| Pioneer® 45Y95 CL | 114 | | | 118 | 127 |
| Pioneer® 45Y93 CL | | | 125 | 112 | 127 |
| Pioneer® 44Y94 CL | | | 110 | | 123 |
| Pioneer® 44Y90 CL | 103 | | 108 | | |
| Banker CL | 100 | | | | |
| Pioneer® 43Y92 CL | 104 | Trial failed | | | 102 |
| Hyola® Solstice CL | | | | 101 | 98 |
| Hyola® Equinox CL | | | 88 | 94 | 87 |
| VICTORY® V75-03CL | 89 | | 90 | 89 | |
| VICTORY® V7002CL | | | 86 | | |
| Sowing date | 23 May | 2 May | 16 Apr | 10 May | 22 Apr |
| Rainfall J–M (mm) | 43 | 157 | 365 | 289 | 286 |
| Rainfall A–O (mm) | 223 | 130 | 429 | 292 | 731 |

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

Table 6: Gilgandra med-high rainfall IMI.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------|--------------|--------------|--------------|--------|--------|
| Mean yield (t/ha) | | | | 2.86 | 3.06 |
| Hyola® Solstice CL | | | | 112 | 106 |
| Pioneer® 45Y95 CL | | | | | 107 |
| Pioneer® 44Y94 CL | | | | 106 | 106 |
| Hyola® Equinox CL | Trial failed | Trial failed | Trial failed | 107 | 103 |
| Pioneer® 45Y93 CL | | | | | 104 |
| Pioneer® 43Y92 CL | | | | 101 | 102 |
| PY520TC | | | | | 100 |
| VICTORY® V7002CL | | | | 92 | |
| Sowing date | 7 Jun | 30 Apr | 16 Apr | 22 Apr | 19 Apr |
| Rainfall J–M (mm) | 141 | 99 | 307 | 394 | 180 |
| Rainfall A–O (mm) | 159 | 49 | 431 | 325 | 586 |

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

Table 8: Parkes med-high rainfall IMI.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|-------------------|--------------|--------------|--------|-----------------------------------|--------------|
| Mean yield (t/ha) | | | 2.60 | | |
| Pioneer® 44Y94 CL | | | 114 | Compromised trial | |
| Pioneer® 44Y90 CL | | | 108 | | |
| Pioneer® 43Y92 CL | Trial failed | Trial failed | 102 | | Trial failed |
| Hyola® Equinox CL | | | 90 | | |
| VICTORY® V7002CL | | | 87 | | |
| Sowing date | 3 May | 9 May | 17 Apr | 20 Apr | 27 May |
| Rainfall J–M (mm) | 62 | 98 | 196 | 241 | 178 |
| Rainfall A–O (mm) | 127 | 114 | 465 | 277 | 358 |

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

Table 10: Condobolin low-med rainfall IMI.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------|-------|--------|--------|-------|--------|
| Mean yield (t/ha) | 0.59 | 1.01 | 2.96 | 3.13 | 2.87 |
| Pioneer® 44Y94 CL | | | | 106 | 108 |
| Hyola® 575CL | 92 | 84 | | | |
| Pioneer® 44Y90 CL | 103 | 104 | 102 | | |
| Hyola® Equinox CL | | | | | 98 |
| Pioneer® 43Y92 CL | 107 | 101 | 107 | 97 | 97 |
| Hyola® Solstice CL | | | | 102 | |
| Saintly CL | | 120 | | | |
| VICTORY® V7002CL | 107 | 106 | 86 | 90 | |
| Sowing date | 9 May | 24 Apr | 17 Apr | 7 May | 25 Apr |
| Rainfall J–M (mm) | 38 | 68 | 229 | 373 | 184 |
| Rainfall A–O (mm) | 91 | 69 | 396 | 252 | 581 |

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

Table 11: Trangie low-med rainfall IML.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------|----------|--------------|--------|--------|--------|
| Mean yield (t/ha) | | | 2.27 | 3.53 | 2.50 |
| Pioneer® 44Y94 CL | No trial | Trial failed | | 106 | 124 |
| Pioneer® 45Y95 CL | | | | | 117 |
| Pioneer® 44Y90 CL | | | 107 | | |
| Hyola® Solstice CL | | | | 101 | |
| Pioneer® 43Y92 CL | | | 100 | 98 | 94 |
| Hyola® Equinox CL | | | | | 81 |
| VICTORY® V7002CL | | | 86 | 92 | |
| Sowing date | | 1 May | 21 Apr | 21 Apr | 20 Apr |
| Rainfall J–M (mm) | | 92 | 193 | 303 | 173 |
| Rainfall A–O (mm) | | 45 | 325 | 271 | 623 |

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

Table 12: Cudal med-high rainfall TT.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|-------------------|-------|-------|--------|--------|-------|
| Mean yield (t/ha) | 0.84 | 0.63 | 3.05 | 3.72 | 3.08 |
| HyITec® Trifecta | | 144 | 118 | 121 | 122 |
| Hyola® Blazer TT | | | 117 | 120 | 121 |
| HyITec® Trophy | 135 | 135 | 114 | 116 | 118 |
| PY520TC | | | | | 117 |
| InVigor® T 4511 | | | | 111 | 113 |
| SF Dynatron TT™ | | | 111 | 113 | 114 |
| InVigor® T 4510 | 115 | 143 | 108 | 110 | 111 |
| RGT Baseline TT | | | | 111 | 111 |
| RGT Capacity™ TT | | 131 | 107 | 108 | 109 |
| InVigor® T 6010 | | 120 | 105 | 107 | 107 |
| Sowing date | 2 May | 1 May | 17 Apr | 21 Apr | 3 May |
| Rainfall J–M (mm) | 87 | 136 | 200 | 287 | 235 |
| Rainfall A–O (mm) | 153 | 130 | 555 | 380 | 616 |

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

Table 13: Gilgandra med-high rainfall TT.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------|--------------|--------------|--------------|--------|--------|
| Mean yield (t/ha) | | | | 2.87 | 2.87 |
| HyITec® Trifecta | Trial failed | Trial failed | Trial failed | 113 | 109 |
| Hyola® Blazer TT | | | | 110 | 108 |
| HyITec® Trident | | | | 112 | 105 |
| HyITec® Trophy | | | | 109 | 106 |
| SF Dynatron TT™ | | | | 106 | 107 |
| HyITec® Velocity | | | | | 107 |
| InVigor® T 4511 | | | | 107 | 106 |
| InVigor® T 4510 | | | | 106 | 106 |
| RGT Capacity™ TT | | | | 104 | 106 |
| Hyola® Enforcer CT | | | | 107 | 103 |
| Sowing date | 7 Jun | 30 Apr | 16 Apr | 22 Apr | 19 Apr |
| Rainfall J–M (mm) | 141 | 99 | 307 | 394 | 180 |
| Rainfall A–O (mm) | 159 | 49 | 431 | 325 | 586 |

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

Table 14: Grenfell med-high rainfall TT.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------|-------|--------------|--------|--------|--------------|
| Mean yield (t/ha) | 0.50 | | 2.89 | 2.56 | |
| HyITec® Trifecta | 145 | Trial failed | 122 | 121 | Trial failed |
| Hyola® Blazer TT | | | 122 | 120 | |
| HyITec® Trophy | 136 | | 121 | 117 | |
| SF Dynatron TT™ | | | 115 | 115 | |
| InVigor® T 4511 | | | | 113 | |
| InVigor® T 4510 | 121 | | 113 | 112 | |
| RGT Capacity™ TT | | | 107 | 110 | |
| RGT Baseline TT | | | | 110 | |
| Hyola® Enforcer CT | | | 106 | 105 | |
| InVigor® T 6010 | | | 102 | 108 | |
| Sowing date | 9 May | 7 May | 21 Apr | 20 Apr | 26 Apr |
| Rainfall J–M (mm) | 71 | 145 | 126 | 317 | 239 |
| Rainfall A–O (mm) | 174 | 127 | 512 | 421 | 616 |

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

Table 15: Parkes med-high rainfall TT.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------|--------------|--------------|--------|--------------|--------------|
| Mean yield (t/ha) | | | 2.59 | | |
| Hyola® Blazer TT | Trial failed | Trial failed | 116 | Trial failed | Trial failed |
| HyITec® Trifecta | | | 113 | | |
| SF Ignite TT | | | 111 | | |
| HyITec® Trophy | | | 109 | | |
| InVigor® T 4510 | | | 107 | | |
| InVigor® LT 4530P | | | 105 | | |
| SF Turbine TT | | | 104 | | |
| HyITec® Trident | | | 100 | | |
| SF Spark TT | | | 100 | | |
| Hyola® Enforcer CT | | | 98 | | |
| Sowing date | 3 May | 9 May | 17 Apr | 20 Apr | 27 May |
| Rainfall J–M (mm) | 62 | 98 | 196 | 241 | 178 |
| Rainfall A–O (mm) | 127 | 114 | 465 | 277 | 358 |

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

Table 16: Wellington med-high rainfall TT.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|---------------------------|--------|--------------|--------|--------|--------|
| Mean yield (t/ha) | 0.84 | | 2.27 | 2.93 | 2.36 |
| Hyola® Blazer TT | | Trial failed | 123 | 122 | 133 |
| RGT Baseline TT | | | | 110 | 133 |
| HyITec® Trifecta | 122 | | | 120 | 128 |
| PY520TC | | | | 118 | 130 |
| SF Dynatron TT™ | | | | 117 | 130 |
| RGT Capacity™ TT | | | | 110 | 125 |
| HyITec® Trophy | 116 | | 106 | 119 | 118 |
| DG BIDGEE TT [Ⓛ] | | | | 103 | 119 |
| Renegade TT [Ⓛ] | | | | 104 | 123 |
| InVigor® T 4510 | 114 | | 103 | 113 | 114 |
| Sowing date | 23 May | 2 May | 16 Apr | 10 May | 22 Apr |
| Rainfall J–M (mm) | 43 | 157 | 365 | 289 | 286 |
| Rainfall A–O (mm) | 223 | 130 | 429 | 292 | 731 |

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

Table 17: Condobolin low-med rainfall TT.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|---------------------------|-------|--------|--------|-------|--------|
| Mean yield (t/ha) | 0.44 | 1.06 | 2.54 | 2.95 | 2.70 |
| Hyola® Blazer TT | | | 127 | | 112 |
| DG BIDGEE TT [Ⓢ] | | | | | 105 |
| SF Dynatron TT™ | | 113 | 112 | | 106 |
| HyTTec® Trophy | 110 | | 108 | 107 | 106 |
| HyTTec® Trident | 119 | 123 | 97 | 108 | 105 |
| RGT Capacity™ TT | | | 110 | 105 | 106 |
| Hyola® Enforcer CT | | | 115 | | 97 |
| InVigor® LT 4530P | | | 101 | 104 | 104 |
| InVigor® T 4510 | 111 | 114 | 96 | 105 | 104 |
| InVigor® T 4511 | | | | 101 | 99 |
| Sowing date | 9 May | 24 Apr | 17 Apr | 7 May | 25 Apr |
| Rainfall J–M (mm) | 38 | 68 | 229 | 373 | 184 |
| Rainfall A–O (mm) | 91 | 69 | 396 | 252 | 581 |

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

Table 18: Trangie low-med rainfall TT.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|---------------------------|----------|--------------|--------|--------|--------|
| Mean yield (t/ha) | | | 2.12 | 2.88 | 2.37 |
| Hyola® Blazer TT | No trial | Trial failed | 119 | | 129 |
| InVigor® LT 4530P | | | 112 | 104 | 120 |
| HyTTec® Trophy | | | 107 | 107 | 118 |
| HyTTec® Trident | | | 102 | 109 | 118 |
| InVigor® T 4510 | | | 107 | 105 | 118 |
| Renegade TT [Ⓢ] | | | | 104 | 114 |
| InVigor® T 4511 | | | | 103 | 106 |
| DG BIDGEE TT [Ⓢ] | | | | | 101 |
| Hyola® Enforcer CT | | | 102 | | 98 |
| SF Spark TT | | | 96 | 100 | 99 |
| Sowing date | | 1 May | 21 Apr | 21 Apr | 20 Apr |
| Rainfall J–M (mm) | | 92 | 193 | 303 | 173 |
| Rainfall A–O (mm) | | 45 | 325 | 271 | 623 |

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

Australian canola variety disease ratings

The following table contains varietal ratings for blackleg disease of canola.

These ratings are updated twice a year by crop pathologists and were released in autumn 2023.

Varieties are listed in alphabetical order and disease ratings are colour-coded to match resistance and susceptibility ratings.

Table 19: Canola disease guide – autumn 2023 ratings.

| Variety | 2023 autumn blackleg rating | | | Type |
|----------------------------------|-----------------------------|----------------------------|---------------------------------|-----------------------------------------|
| | Bare | Fluopyram (e.g. ILeVO®) | Pydiflumetofen (e.g. Salto®) | |
| CONVENTIONAL VARIETIES | | | | |
| Nuseed® Quartz | R | | | Hybrid |
| Nuseed® Diamond | RMR | R | R | Hybrid |
| Outlaw [Ⓓ] | RMR | R | R | Open pollinated |
| TRIAZINE-TOLERANT VARIETIES | | | | |
| HyTTec® Trident | R | | | Hybrid |
| HyTTec® Trifecta | R | | | Hybrid |
| HyTTec® Trophy | R | R | R | Hybrid |
| Hyola® Blazer TT | R | | | Hybrid |
| DG BIDGEE TT [Ⓓ] | R | R | R | Open pollinated |
| InVigor® T 4511 | R | R | | Hybrid |
| DG MURRAY TT [Ⓓ] | R | | | Open pollinated |
| DG Torrens TT [Ⓓ] | R | | R | Open pollinated |
| Monala® H421TT | RMR | | | High stability oil, hybrid |
| Monala® 420TT | RMR | | | High stability oil, open pollinated |
| ATR-Bluefin [Ⓓ] | RMR | | | Open pollinated |
| InVigor® T 4510 | MR | R | R | Hybrid |
| SF Spark TT | MR | R | R | Hybrid |
| HyTTec® Velocity | MR | | | Hybrid |
| Renegade TT [Ⓓ] | MR | R | R | Open pollinated |
| Monala® 422TT | MR | | | High stability oil, open pollinated |
| ATR-Stingray [Ⓓ] | MRMS | R | R | Open pollinated |
| RGT Baseline™ TT | MRMS | R | R | Hybrid |
| ATR-Swordfish [Ⓓ] | MRMS | | | Open pollinated |
| SF Dynatron™ TT | MRMS | R | R | Hybrid |
| InVigor® T 6010 | MRMS | R | R | Hybrid |
| RGT Capacity™ TT | MRMS | R | R | Hybrid |
| Bandit TT [Ⓓ] | MRMS | R | R | Open pollinated |
| AFP Cutubury [Ⓓ] | MS | RMR | RMR | Open pollinated |
| ATR-Bonito [Ⓓ] | MS | RMR | R | Open pollinated |
| IMIDAZOLINONE-TOLERANT VARIETIES | | | | |
| Hyola® Feast CL | R | | | Winter, hybrid, Clearfield® |
| RGT Nizza CL | R | | | Winter, hybrid, Clearfield® |
| Hyola® Solstice CL | R | | | Hybrid, Clearfield® |
| Captain CL | R | | | Winter, hybrid, Clearfield® |
| Hyola® Equinox CL | R | | | Hybrid, Clearfield® |
| Pioneer® 45Y93 CL | R | | R | Hybrid, Clearfield® |
| RGT Clavier™ CL | R | | | Winter, hybrid, Clearfield® |
| Hyola® 970CL | R | | | Winter, hybrid, Clearfield® |
| Phoenix CL | R | | | Winter, hybrid, Clearfield® |
| Nuseed® Ceres IMI | R | | | Hybrid |
| VICTORY® V7002CL | R | | | High stability oil, hybrid, Clearfield® |

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible.
Please check updated ratings using the [Blackleg Management Guide](#) or the [NVT Disease Ratings](#).

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

Table 19: Canola disease guide – autumn 2023 ratings (continued).

| Variety | 2023 autumn blackleg rating | | | Type |
|-------------------------------------------------|-----------------------------|----------------------------|----------------------------------|--------------------------------------------|
| | Bare | Fluopyram (e.g. ILeVO®) | Pydiflumetofen (e.g. Saltro®) | |
| Pioneer® 43Y92 CL | R | | R | Hybrid, Clearfield® |
| Pioneer® 45Y95 CL | R | | R | Hybrid, Clearfield® |
| Pioneer® 44Y94 CL | R | | R | Hybrid, Clearfield® |
| VICTORY® V75-03CL | RMR | R | | High stability oil, hybrid, Clearfield® |
| IMIDAZOLINONE AND TRIAZINE-TOLERANT VARIETIES | | | | |
| Hyola® Enforcer CT | R | | | Hybrid, Clearfield®, Triazine |
| Pioneer® PY520 TC | RMR | R | R | Hybrid, Clearfield®, Triazine |
| GLYPHOSATE-TOLERANT VARIETIES | | | | |
| Nuseed® Raptor TF | R | | | Hybrid, TruFlex® |
| Nuseed® Eagle TF | R | | R | Hybrid, TruFlex® |
| DG Hotham TF | R | | R | Hybrid, TruFlex® |
| VICTORY® V55-04TF | R | R | | High stability oil, hybrid, TruFlex® |
| VICTORY® V5003RR | R | R | | High stability oil, hybrid, Roundup Ready® |
| DG Lofty TF | R | | R | Hybrid, TruFlex® |
| Pioneer® 45Y28RR | RMR | | R | Hybrid, Roundup Ready® |
| Nuseed® Hunter TF | RMR | | R | Hybrid, TruFlex® |
| Pioneer® 44Y27 RR | RMR | R | R | Hybrid, Roundup Ready® |
| InVigor® LR 4540P | RMR | R | | Hybrid, LibertyLink®, TruFlex® |
| Pioneer® 44Y30 RR | RMR | | R | Hybrid, Roundup Ready® |
| Nuseed® Emu TF | MR | | R | Hybrid, TruFlex® |
| Hyola® 410XX | MR | | | Hybrid, TruFlex® |
| DG Bindo TF | MR | | | Hybrid, TruFlex® |
| InVigor® R 4022P | MR | R | | Hybrid, TruFlex® |
| InVigor® R 4520P | MRMS | R | | Hybrid, TruFlex® |
| GLYPHOSATE AND IMIDAZOLINONE-TOLERANT VARIETIES | | | | |
| Hyola® Regiment XC | R | | | Hybrid, TruFlex®, Clearfield® |
| Hyola® Battalion XC | R | | | Hybrid, TruFlex®, Clearfield® |
| Hyola® Garrison XC | R | | | Hybrid, TruFlex®, Clearfield® |
| GLUFOSINATE AND TRIAZINE-TOLERANT VARIETIES | | | | |
| InVigor® LT 4530P | RMR | R | | Hybrid, LibertyLink®, Triazine |

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible.
Please check updated ratings using the [Blackleg Management Guide](#) or the [NVT Disease Ratings](#).

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

CHICKPEA

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.

Table 1: Trangie desi chickpea.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|---------------------------|--------|----------|--------|--------|--------------|
| Mean yield (t/ha) | 0.86 | | 2.89 | 2.52 | |
| PBA Drummond [Ⓢ] | 103 | No trial | 107 | 103 | Trial failed |
| CBA Captain [Ⓢ] | 100 | | 103 | 103 | |
| Jimbour | 97 | | | | |
| PBA Boundary [Ⓢ] | 107 | | 101 | 99 | |
| PBA HatTrick [Ⓢ] | 104 | | 99 | 98 | |
| PBA Seamer [Ⓢ] | 97 | | 98 | 101 | |
| Kyabra [Ⓢ] | 113 | | 97 | 90 | |
| Sowing date | 19 Jun | | 15 May | 31 May | 17 Jun |
| Rainfall J–M (mm) | 47 | | 199 | 303 | 55 |
| Rainfall A–O (mm) | 137 | | 394 | 271 | 795 |

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

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

Refer to the latest *Crop Sowing Guide* for further information at grdc.com.au/nvt-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 2023.

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 thornei</i>) | RLN tolerance (<i>Pratylenchus thornei</i>) | RLN resistance (<i>Pratylenchus neglectus</i>) | RLN tolerance (<i>Pratylenchus neglectus</i>) |
|---------------------------|------------------------------------------------|------------------------------------------------|--------------------------|---------------------------------------------------|--------------------------------------------------|-----------------------------------------------------|----------------------------------------------------|
| DESI | | | | | | | |
| CBA Captain [Ⓛ] | S | MS | S | MS | MT | MR | MT |
| Kyabra [Ⓛ] | VS | VS | VS | S | MT | MRMS | MT |
| Neelam [Ⓛ] | S | S | | MS | MI | MRMS | MI |
| PBA Boundary [Ⓛ] | S | S | VS | MRMS | MT | RMR | MI |
| PBA Drummond [Ⓛ] | VS | VS | VS | MRMS | MT | MR | TMT |
| PBA HatTrick [Ⓛ] | S | S | S | MRMS | MTMI | MRMS | MT |
| PBA Maiden [Ⓛ] | S | S | | MRMS | I | MRMS | MI |
| PBA Seamer [Ⓛ] | S | MS | S | MRMS | MTMI | MRMS | MI |
| PBA Slasher [Ⓛ] | S | S | | MRMS | MT | MRMS | MI |
| PBA Striker [Ⓛ] | S | S | | MRMS | TMT | MRMS | MI |
| KABULI | | | | | | | |
| Almaz [Ⓛ] | S | MS | | S | IVI | MRMS | MII |
| Genesis™ 090 | MS | MS | | MSS | I | MRMS | IVI |
| Genesis™ Kalkee | S | S | | MS | MI | MRMS | VI |
| PBA Magnus [Ⓛ] | S | MS | | MSS | I | MR | MII |
| PBA Monarch [Ⓛ] | S | MS | | MS | MII | MRMS | I |
| PBA Royal [Ⓛ] | MS | MS | | MS | MI | MR | VI |

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.

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

FIELD PEA

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 | 2018 | 2019 | 2020 | 2021 | 2022 |
|---------------------------|--------------|--------|--------|--------|--------------|
| Mean yield (t/ha) | | 0.60 | 2.38 | 3.05 | |
| PBA Taylor ^{db} | Trial failed | 113 | 99 | 111 | Trial failed |
| PBA Pearl | | 93 | 113 | 101 | |
| PBA Butler ^{db} | | 95 | 104 | 107 | |
| PBA Wharton ^{db} | | 112 | 95 | 103 | |
| PBA Percy | | 95 | 109 | 92 | |
| PBA Oura ^{db} | | 100 | 102 | 96 | |
| PBA Noosa ^{db} | | 92 | 97 | 101 | |
| Sturt | | 98 | 104 | 94 | |
| Kaspa ^{db} | | 83 | 96 | 100 | |
| GIA Kastar ^{db*} | | | 87 | 91 | |
| Sowing date | 13 Jun | 22 May | 22 May | 24 May | 9 May |
| Rainfall J–M (mm) | 38 | 68 | 229 | 373 | 184 |
| Rainfall A–O (mm) | 91 | 69 | 396 | 252 | 581 |

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

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

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

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 2023.

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>) |
|---------------------------|------------------|--------------|----------------|-----------------------------------------------------|---------------------------------------------------|
| GIA Kastar ^{db} | S | S | RMR | MR | MS |
| GIA Ourstar ^{db} | S (P) | S | S | MRMS | MSS |
| Kaspa ^{db} | S | S | S | RMR | MRMS |
| PBA Butler ^{db} | MS | S | S | RMR | MRMS |
| PBA Noosa ^{db} | S | MS | S | MR | MRMS |
| PBA Oura ^{db} | MS | S | S | MR | MRMS |
| PBA Pearl | MS | S | S | MR | MRMS |
| PBA Percy | MRMS | S | S | RMR | RMR |
| PBA Taylor ^{db} | S | S | S | RMR | MRMS |
| PBA Wharton ^{db} | S | S | RMR | MR | MRMS |

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

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

LUPIN

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.

| Variety | Variety owner | End point royalty* (\$) | Comments supplied by variety owner |
|---------------------|-------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Lawler [Ⓛ] | Australian Grain Technologies | 4.00 | A widely adapted variety, offering growers high and stable yields across all NSW, Victorian and South Australian lupin growing regions. |

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

Refer to the latest *Crop Sowing Guide* for further information at grdc.com.au/nvt-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 | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------------|--------|-------|--------|--------|-------|
| Mean yield (t/ha) | | | 1.61 | 4.74 | |
| PBA Gunyidi [Ⓛ] | | | 102 | | |
| Coyote [Ⓛ] | | | 101 | | |
| PBA Bateman [Ⓛ] | | | 100 | 99 | |
| Lawler [Ⓛ] | | | | 99 | |
| Jenabillup [Ⓛ] | | | 97 | | |
| Mandelup [Ⓛ] | | | 97 | 97 | |
| Quillinock | | | 94 | 97 | |
| PBA Jurien [Ⓛ] | | | 96 | | |
| PBA Barlock [Ⓛ] | | | 93 | 95 | |
| Wonga | | | 89 | 95 | |
| Sowing date | 24 Apr | 1 May | 21 Apr | 26 Apr | 8 Jun |
| Rainfall J–M (mm) | 141 | 99 | 307 | 394 | 180 |
| Rainfall A–O (mm) | 159 | 49 | 431 | 325 | 586 |

Coyote[Ⓛ], PBA Gunyidi[Ⓛ] and PBA Jurien[Ⓛ] were not included in 2021 due to a seed quality issue. Special thanks to 2022 trial cooperator - permission to publish was not received. Learn more via the [NVT Long Term Yield Reporter](#)

Table 2: Goonumbla narrow-leaf lupin.

| Year | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------------|-------|--------|--------|--------|--------|
| Mean yield (t/ha) | | | 2.23 | 3.75 | 2.87 |
| Coyote [Ⓛ] | | | 97 | | 111 |
| Lawler [Ⓛ] | | | | 113 | 109 |
| PBA Jurien [Ⓛ] | | | 94 | | 101 |
| PBA Bateman [Ⓛ] | | | 101 | 104 | 101 |
| Mandelup [Ⓛ] | | | 94 | 108 | 101 |
| PBA Barlock [Ⓛ] | | | 93 | 106 | 94 |
| PBA Gunyidi [Ⓛ] | | | 106 | | 95 |
| Jenabillup [Ⓛ] | | | 102 | | 88 |
| Quillinock | | | 96 | 94 | 87 |
| Wonga | | | 91 | 88 | 80 |
| Sowing date | 3 May | 10 May | 20 Apr | 27 Apr | 10 May |
| Rainfall J–M (mm) | 38 | 92 | 196 | 241 | 188 |
| Rainfall A–O (mm) | 147 | 114 | 465 | 277 | 481 |

Coyote[Ⓛ], PBA Gunyidi[Ⓛ] and PBA Jurien[Ⓛ] were not included in 2021 due to a seed quality issue. Special thanks to 2022 trial cooperator, Kebby & Watson. 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 2023.

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 |
|--------------------------|------------------------|-----------------------------|-------------------------|--------------------------|
| Coyote [Ⓛ] | MRMS | MRMS | MRMS | S |
| Jenabillup [Ⓛ] | MS | MRMS | MR | MS |
| Lawler [Ⓛ] | MR | MRMS | MS | MR |
| Mandelup [Ⓛ] | MRMS | MRMS | S | RMR |
| PBA Barlock [Ⓛ] | RMR | MR | MR | MR |
| PBA Bateman [Ⓛ] | MRMS | MR | MS | RMR |
| PBA Gunyidi [Ⓛ] | MRMS | MRMS | MRMS | RMR |
| PBA Jurien [Ⓛ] | RMR | MS | MR | RMR |
| Quillinock | VS | MS | S | S |
| Wonga | RMR | MR | MR | MR |

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

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

WHEAT

BARLEY

OAT

CANOLA

CHICKPEA

FIELD PEA

LUPIN

Useful NVT tools



Visit the NVT website @ nvt.grdc.com.au

▼ Harvest Reports

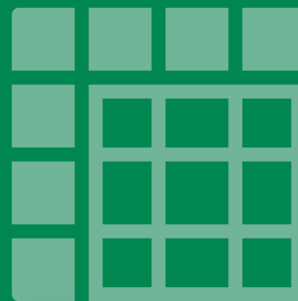
▼ Sowing Guides



▼
**Trial
results**



▼
**Long Term
Yield
Reporter**



▼
**NVT
Disease
Ratings**

To receive email notifications the moment results for your local NVT trials are available, sign up to the NVT Trial Notification Service



SCAN QR CODE

To receive the latest NVT publications (Harvest Reports and Sowing Guides), subscribe to NVT communications



SCAN QR CODE



Follow us on Twitter
@GRDC_NVT