2024
VICTORIAN AND TASMANIAN CROP SOWING DATA SUMMARY

GRDC
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VICTORIA AND TASMANIA
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MARCH 2024 UPDATE

GRDC NATIONAL VARIETY TRIALS™

ARE YOU GROWING THE BEST VARIETY FOR YOUR SITUATION?

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Title: *2024 Victorian and Tasmanian Crop Sowing Data Summary*

This publication summarises information on current varieties of the major winter crops grown in Victoria. Local advisers are also a key resource for information relevant to individual localities. This publication aims to prompt growers to ask themselves, 'Am I growing the best variety for my situation?' Use it as a guide for discussion with consultants, advisers and marketing agents.

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COVER: Faba bean growing at a trial site in Warne, Victoria.
PHOTO: Sophie Clayton

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TABLE OF CONTENTS

This guide can be downloaded to your computer or tablet at: https://grdc.com.au/victorian-crop-sowing-guide. Remember to update it each October.

INTRODUCTION	5
WHEAT	7
BARLEY	23
OAT	33
CANOLA	37
FIELD PEA	51
LENTIL	55
FABA BEAN	59
LUPIN	63
CHICKPEA	65
VETCH	69
NOTES	75

THE VICTORIAN AND TASMANIAN CROP SOWING DATA SUMMARY

The *Victorian and Tasmanian Crop Sowing Data Summary* outlines information on current varieties of the major winter crops suitable to be grown in Victoria and Tasmania to assist growers in making decisions on variety selection for the upcoming season. The 2024 *Victorian and Tasmanian Crop Sowing Data Summary* differs from past Victorian and Tasmanian crop sowing guides published in previous years because it only contains the variety descriptions, disease resistance ratings tables and the National Variety Trials' long-term yield tables for each crop. The transition has been made due to resourcing changes.

This edition of the Victorian and Tasmania summary has been compiled by officers within the South Australian Research and Development Institute (SARDI) and collaborating researchers.

The SARDI Crop Sciences Division officers acknowledge the sponsorship of this summary by the Grains Research and Development Corporation (GRDC), the contributions of agronomy and vetch breeding research staff in SA, as well as collaborators around Australia in producing the results published in this edition.

INTERPRETING CEREAL RESISTANCE CLASSIFICATIONS

Below is an explanation of the resistance ratings used in this guide for foliar diseases, and how they should be interpreted.

R Resistant: the disease will not multiply or cause any damage on this variety.

MR Moderately resistant: the disease may be visible and will multiply slightly, but will not cause significant loss.

MS Moderately susceptible: the disease may cause losses of up to 15 per cent or more in very severe cases.

S Susceptible: the disease can be severe on this variety and losses of 15 to 50 per cent can occur.

VS Very susceptible: this variety should not be grown in areas where a disease is likely to be a problem. Losses greater than 50 per cent are possible, and the build-up of inoculum will create problems for other growers.

INTERPRETING PULSE RESISTANCE CLASSIFICATIONS

Below is an explanation of the resistance ratings used in this guide for foliar diseases, and how they should be interpreted.

R Resistant: no symptoms visible. No fungicides are required.

RMR Resistant to moderately resistant: the disease may be visible but will not cause significant plant damage or loss. However, under extreme disease pressure or highly favourable environmental conditions, fungicide applications may be required, for example to prevent seed staining.

MR Moderately resistant: the disease may be visible but will not cause significant plant damage or loss. However, under high disease pressure or highly favourable environmental conditions, fungicide applications may be required, for example to prevent seed staining.

MRMS Moderately resistant to moderately susceptible: the disease symptoms are moderate and may cause some yield and/or seed quality losses in conducive conditions. Fungicide applications, if applicable, may be required to prevent yield loss and seed staining.

MS Moderately susceptible: disease symptoms are moderate to severe and will cause significant yield and seed quality loss in the absence of fungicides in conducive seasons, but not complete crop loss.

S Susceptible: the disease is severe and will cause significant yield and seed quality loss, including complete crop loss in the absence of fungicides, in conducive conditions.

VS Very susceptible: growing this variety in areas where a disease is likely to be present is very high risk. Significant yield and seed quality losses, including complete crop loss, can be expected without control and the increase in inoculum may create problems for other growers.

INTERPRETING RESISTANCE CLASSIFICATIONS FOR NEMATODES

Below is an explanation of the resistance ratings used in this guide for nematodes for both cereals and pulses, and how they should be interpreted.

R Resistant: nematode numbers will decrease when this variety is grown.

MR Moderately resistant: nematode numbers will slightly decrease when this variety is grown.

MS Moderately susceptible: nematode numbers will slightly increase when this variety is grown.

S Susceptible: nematode numbers will increase greatly in the presence of this variety.

VS Very susceptible: a large increase in nematode numbers can occur when this variety is grown, and this will cause problems to a following intolerant crop.

These classifications are only a guide and yield losses will depend on the environment and seasonal conditions. Disease ratings can change throughout the year. Refer to NVT disease ratings for the most up-to-date ratings.

DISEASE RATING COLOUR RANGE

R	RMR	MR	MRMS	MS	MSS	S	VS

Resistance order from best to worst: R > RMR > MR > MRMS > MS > MSS > S > SVS > VS.

R = Resistant; RMR = Resistant to moderately resistant; MR = Moderately resistant; MRMS = Moderately resistant to moderately susceptible; MS = Moderately susceptible; MSS = Moderately susceptible to susceptible; S = Susceptible; SVS = Susceptible to very susceptible; VS = Very susceptible.

INTRODUCTION

NATIONAL VARIETY TRIALS (NVT)

The variety trial results presented in this book are sourced from the NVT program and the National Vetch Breeding Program.

NVT provide independent information on varieties for growers. The aim of NVT is to document a ranking of new and widely adopted varieties according to grain yield and to provide grain quality information relevant to delivery standards. NVT are also used by pathologists to determine disease resistance ratings used in the sowing data summary.

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

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

PLANT BREEDER'S RIGHTS (PBR)

Varieties subject to Plant Breeder's Rights at the time of printing are annotated with the symbol (b). It should be noted that unauthorised commercial propagation or any sale, conditioning, export, import or stocking of propagation material of these varieties is an infringement under the *Plant Breeder's Rights Act 1994*. Intentional infringement of a PBR attracts a penalty of $85,000 for individuals. The penalty for corporations is up to five times greater.

END POINT ROYALTIES (EPRS)

EPRs payable for 2023-24 are quoted from varietycentral.com.au and are quoted $/tonne ex-GST. Compliance with EPR systems is vital to ensure the future of the Australian grains industry through the funding of new varieties and long-term productivity gains. EPRs for the 2024-25 harvest will become available early in 2024 on the Variety Central website.

INTERPRETING LONG-TERM YIELD RESULTS

The long-term yield results presented in this guide are an output of NVT Long Term Multi Environment Trial (MET) analysis. NVT are run in all cropping regions of Australia (for example, Mallee, Wimmera, North Central, etc.) and use a five-year rolling results set.

A mixed model approach is used in the MET analysis using expertise from the GRDC-supported Statistics for Australia Grains Industry (SAGI) program. This approach generates long-term MET results for varieties at an individual trial level.

The output used in this sowing data summary presents the MET results on a region-by-year basis across the five years used in the MET results set. The analysis, and subsequent reporting systems, have allowed NVT to bring together very large results sets and make more refined, relevant and robust results about the relative performance of each variety across different locations and seasons.

Readers can now use these more detailed results to better understand a variety's performance over several years, rather than just a single averaged value.

Readers can further interrogate the results online to better understand the performance of varieties under a range of situations using the NVT Long Term Yield Reporting Tool. The long-term yield results are best viewed at the individual trial/environment level; however, these detailed results sets are too large for printed sowing guides or quick reference summaries.

Users can choose to view results in year or yield-based groupings and can filter results to region or location selections to suit their own needs. In this sowing data summary, we present results in year groups and only for varieties present in trials.

The NVT Long Term Yield Reporting Tool is designed to run on all web browsing platforms on computers, tablets and phones, and is available online at app.nvt.grdc.com.au/lty/table.

COLOUR GRADIENT LEGEND: MEAN VARIETY YIELD PERFORMANCE

LOW **HIGH**

Long-term mean yield illustrated by colour gradient from lowest (red) to highest (green), comparable on an annual basis.

WHEAT

NEW VARIETIES

The newly released wheat varieties for 2023 are Genie$^{\phi}$, LRPB Matador$^{\phi}$, LRPB Major$^{\phi}$, Mowhawk$^{\phi}$, Stockade$^{\phi}$ and Tomahawk CL Plus$^{\phi}$.

These newly released varieties have not necessarily been included in the NVT release pathway. As such, there is no NVT disease or yield data available. Contact your local seed marketer or breeder for more detail on these varieties. This includes Genie$^{\phi}$.

BREAD WHEAT

ASCOT$^{\phi}$

APW quality. Mid maturing. Ascot$^{\phi}$ is the first wheat variety to be launched by BASF. Suited to medium to high-rainfall zones for Victoria. Released 2020. Bred by BASF, seed available and marketed by Seednet. EPR $3.50 ex-GST.

BALLISTA$^{\phi}$

AH quality. Quick-mid maturity variety, slightly quicker than Mace$^{\phi}$. Released 2020. Bred and marketed by AGT and eligible for AGT Seed Sharing™. EPR $3.50 ex-GST.

BECKOM$^{\phi}$

AH quality. Mid maturity suited to sowing in early May. Beckom$^{\phi}$ has a short stature and moderate straw strength and performs well across all rainfall zones. Released 2015. Bred and marketed by AGT and eligible for AGT Seed Sharing™. EPR $3.25 ex-GST.

BOREE$^{\phi}$

AH quality. Mid-season maturing variety. Moderate plant height, slightly taller than Scepter$^{\phi}$ with good lodging tolerance. Released 2021 (tested as V09063-47-16). Bred and marketed by AGT and eligible for AGT Seed Sharing™. EPR $3.60 ex-GST.

BRUMBY$^{\phi}$

APW quality. A mid maturing variety suited to early May sowing. Released 2022 (tested as IGW6683) with seed available for 2023. Marketed by InterGrain. EPR $3.50 ex-GST.

CALIBRE$^{\phi}$

AH quality. Quick-mid maturity variety derived from Scepter$^{\phi}$. Moderately long coleoptile length. Released 2021 (tested as RAC2721). Bred and marketed by AGT and eligible for AGT Seed Sharing™. EPR $3.50 ex-GST.

CATAPULT$^{\phi}$

AH quality. Mid maturity, suitable for late April to mid-May sowing. Suitable across a range of conditions and environments. Closely related to Scepter$^{\phi}$ with similar grain quality. Released 2019. Bred and marketed by AGT and eligible for AGT Seed Sharing™. EPR $3.25 ex-GST.

CHIEF CL PLUS$^{\phi}$

APW quality. A mid maturing variety with good pre-anthesis vigour. Clearfield® Plus wheat registered for label rates of Intervix® herbicide. Released 2016. Marketed by InterGrain and available through InterGrain Seedclub members. Not eligible for grower-to-grower trade. EPR $4.25 ex-GST.

COOLAH$^{\phi}$

AH quality. Mid-slow maturity suited to end of April to early May sowing. Medium height, producing high test weight and low screenings. Released 2016. Bred and marketed by AGT and eligible for AGT Seed Sharing™. EPR $3.50 ex-GST.

COOTA$^{\phi}$

AH quality. Mid-slow maturity suited to end of April to beginning of May sowing. Released 2020. Bred and marketed by AGT and eligible for AGT Seed Sharing™. EPR $3.60 ex-GST.

DENISON[Φ]

APW quality. Slow maturity variety suited to mid to late April sowing. Released 2020. Bred and marketed by AGT and eligible for AGT Seed Sharing™. EPR $3.40 ex-GST.

DS BENNETT[Φ]

ASW quality. Tall, awnless, slow maturing winter wheat suited to medium to high-rainfall zones. Released 2018. Bred by S&W Seeds, seed available from Seednet. EPR $4.25 ex-GST.

DS PASCAL[Φ]

APW quality. Slow maturing suited to medium to high-rainfall zones and irrigation. Released 2015. Bred by S&W Seeds and marketed by Seednet. EPR $4.25 ex-GST.

EG TITANIUM[Φ]

AH quality. A mid-slow maturing variety targeted for early planting in medium to high-rainfall zones. Released 2018. Marketed by Elders and Elders-approved commercial partners. EPR $3.00 ex-GST.

NEW – GENIE[Φ]

AH quality. Mid maturity slightly longer than RockStar[Φ], suited to late April sowing. Best suited to medium to high-rainfall zones. Genie[Φ] has been entered into the NVT system for the 2023 season. Released in 2023 (tested as IGW6754), bred by InterGrain. Seed is available from local resellers or InterGrain Seedclub members. EPR $3.50 ex-GST.

GRENADE CL PLUS[Φ]

AH quality. Two-gene tolerance to label rates of Intervix® herbicide. Quick-mid season variety. Released 2012. Bred and marketed by AGT; not eligible for AGT Seed Sharing™. EPR $3.80 ex-GST.

HAMMER CL PLUS[Φ]

AH quality. Two-gene tolerance to label rates of Intervix® herbicide. Closely related to Mace[Φ] with similar maturity and adaptability. Released 2020. Bred and marketed by AGT; not eligible for AGT Seed Sharing™. EPR $4.25 ex-GST.

ILLABO[Φ]

AH quality. A mid maturing, dual-purpose winter wheat, two to three days quicker to heading than EGA Wedgetail[Φ]. Developed for early sowing and winter grazing. Released 2018. Bred and marketed by AGT and eligible for AGT Seed Sharing™. EPR $3.50 ex-GST.

KINGSTON[Φ]

AH quality. Quick-mid maturing, compact plant type with broad adaption. Released 2022 (tested as BSWDH04-062). Bred by BASF and marketed by Seednet. EPR $3.50 ex-GST.

KORD CL PLUS[Φ]

AH quality. Two-gene tolerance to label rates of Intervix® herbicide. Mid maturity. Released 2011. Bred and marketed by AGT; not eligible for AGT Seed Sharing™. EPR $3.55 ex-GST.

LRPB ANVIL[Φ] CL PLUS

AH quality. Clearfield® Plus wheat with two-gene tolerance to label rates of Intervix® herbicide. Very quick-quick maturity and bold early growth. Fast grain-fill with large grain, suited to low to medium-rainfall areas. Released 2022 (tested as LPB17-6157). Bred by Grains Innovation Australia (GIA), developed by LongReach and marketed by Pacific Seeds. EPR $4.25 ex-GST.

LRPB BALE[Φ]

APW quality. A slow maturing spring wheat with a long coleoptile length. Delayed flowering and awnless qualities allow it to be delivered as grain or cut for hay, making it a good option for areas prone to frost. Limited NVT evaluation data available for Victoria. Released 2021 (tested as LPB18-7946). Bred by CSIRO and marketed by LongReach. Free to trade. EPR $3.50 ex-GST.

LRPB DUAL[Φ]

AH quality. Mid-slow maturing, awnless spring wheat with a long coleoptile length, making it a good option for areas prone to frost. Limited evaluation data available for Victoria. Released 2021 (tested as LPB18-7982). Bred by CSIRO and marketed by LongReach. Free to trade. EPR $3.50 ex-GST.

NEW – LRPB MATADOR[Φ]

AH quality. Quick-mid maturing spring wheat, similar maturity to Scepter[Φ] with a shorter canopy. Limited evaluation in NVT. Released in 2023 (tested as LPB18-4160) by LongReach Plant Breeders. Seed is available through Pacific Seeds. EPR $3.50 ex-GST.

NEW – LRPB MAJOR[Φ]

AH quality. Mid-slow maturity. It is suited to an Anzac Day sowing due to its slower growth pattern. Also suited to the longer season growing environments in the mid-high rainfall zones. Released in 2023 (tested as LPB18-7203) by LongReach Plant Breeders. Seed is available through Pacific Seeds. EPR $4.00 ex-GST.

LRPB NIGHTHAWK(ф)

APW quality. Very slow spring wheat with unique characteristics, allowing it to be planted earlier in systems that do not traditionally suit winter wheat types. Demonstrated good yields throughout the April sowing window. Released 2019. Bred by LRPB and marketed by Pacific Seeds. EPR $4.25 ex-GST.

LRPB TROJAN(ф)

APW quality. Mid-slow spring variety suited to medium to high-rainfall areas. Released 2013. Marketed by Pacific Seeds. Free to trade. EPR $4.00 ex-GST.

MACE(ф)

AH quality. Quick-mid maturity, of medium height. Released 2008. Bred and marketed by AGT and eligible for AGT Seed Sharing™. EPR $3.00 ex-GST.

NEW – MOWHAWK(ф)

APW quality. Quick winter wheat. Mowhawk(ф) has a similar development pattern to Longsword(ф) and is suited to early sowing in warmer environments. Released in 2023 (tested as LPB19-14343) by LongReach Plant Breeders. Seed is available through LongReach Seed Growers. EPR $4.00 ex-GST.

RAZOR CL PLUS(ф)

ASW quality. Two-gene tolerance to label rates of Intervix® herbicide. Quick-mid maturing variety derived from Mace(ф). Released 2018. Bred and marketed by AGT; not eligible for AGT Seed Sharing™. EPR $3.30 ex-GST.

REILLY(ф)

AH quality. Mid maturing variety with medium plant height, suited to low to medium-rainfall zones. Released 2022 (tested as BH1200205-11). Bred by BASF and marketed by Seednet. EPR $3.50 ex-GST.

ROCKSTAR(ф)

AH quality. Mid-slow maturing variety. Good grain size, moderate plant height, similar to Mace(ф). Released 2019. Bred and marketed by InterGrain and available through InterGrain Seedclub members. Free to trade. EPR $3.50 ex-GST.

SCEPTER(ф)

AH quality. Mid maturing variety of medium height. Intended to replace Mace(ф), flowering two days later. Released 2015. Bred and marketed by AGT and eligible for AGT Seed Sharing™. EPR $3.25 ex-GST.

SHERIFF CL PLUS(ф)

APW quality. Clearfield® Plus wheat with good yield stability. Mid-slow maturing variety registered for label rates of Intervix® herbicide. Released 2018. Bred and marketed by InterGrain and available through InterGrain Seedclub members. Not eligible for grower-to-grower trade. EPR $4.25 ex-GST.

NEW – STOCKADE(ф)

APW quality. Very slow maturing spring wheat. Similar to that of winter wheat RGT Accroc(ф). Suited to high-rainfall zones due to its slow maturity. Released in 2022 (tested as LPB16-0598) and bred by LongReach Plant Breeders. Seed is exclusively available from AGF Seeds. EPR $3.65 ex-GST.

SUNBLADE CL PLUS(ф)

AH quality. Two-gene tolerance to label rates of Intervix® herbicide. Mid maturing variety suited to mid-May sowing across all environments. Medium plant height. Released 2020. Bred and marketed by AGT and not eligible for AGT Seed Sharing™. EPR $4.35 ex-GST.

SUNFLEX(ф)

AH quality. Slow maturing variety suited to sowing from mid to late April in medium to high-rainfall zones. Released 2020. Bred and marketed by AGT and eligible for AGT Seed Sharing™. EPR $3.60 ex-GST.

SUNMASTER(ф)

APH quality. Mid maturing variety of medium height intended to replace Suntop(ф). One of the first varieties available with APH quality in the southern zone. Released 2020. Bred and marketed by AGT and eligible for AGT Seed Sharing™. EPR $3.60 ex-GST.

NEW – TOMAHAWK CL PLUS(ф)

APW quality. Quick-mid maturing Clearfield® Plus spring wheat. It is agronomically similar to Scepter(ф) with the advantage of imidazolinone tolerance. Released in 2023 (tested as RAC3261), bred by AGT. Seed is available from AGT affiliates. It is not eligible for AGT Seed Sharing™. EPR $4.15 ex-GST.

VALIANT(ф) CL PLUS

AH quality. Slow season Clearfield® Plus spring wheat. Ideally suited to early sowing and useful where there are residue concerns from previous crops. Released 2021 (tested as IGW4502). Bred and marketed by InterGrain. EPR $4.35 ex-GST.

VIXEN(ф)

AH quality. Quick maturing wheat suited to mid-May onwards sowing with moderate plant height. Good yellow leaf spot resistance. Released 2018. Bred and marketed by InterGrain. Free to trade. EPR $3.50 ex-GST.

WILLAURA(ф)

AH quality. Slow-very slow maturity, similar to LRPB Beaufort(ф). Ideally suited to early sowing in medium to high-rainfall areas. Released 2022 (tested as V12167-048). Bred and marketed by AGT and eligible for AGT Seed Sharing™. EPR $3.50 ex-GST.

SPECIALTY WHEAT

LONGSWORD(ф)

AWW quality. A quick maturing, dual-purpose winter wheat suited to low to medium-rainfall areas. Suits April sowing and offers grazing potential. Released 2017. Bred and marketed by AGT and eligible for AGT Seed Sharing™. EPR $2.75 ex-GST.

LRPB ORYX(ф)

ASFT quality. Mid spring soft wheat variety suited to medium-rainfall zones in Victoria. Released 2020. Marketed by Pacific Seeds. EPR $3.75 ex-GST.

LRPB PARAKEET(ф)

ANW quality. Mid-spring noodle wheat variety suited to medium-rainfall zones in Victoria. Released 2020. Marketed by Pacific Seeds. EPR $3.75 ex-GST.

FEED/DUAL-PURPOSE WHEAT

ANAPURNA

FEED quality. An awned, red-grained winter wheat. Slow maturing, similar to RGT Accroc(ф). Dual-purpose variety suitable for graze and grain production when sown early in high-rainfall zones or under irrigation. Released 2020. Bred and marketed by AGT and eligible for AGT Seed Sharing™. EPR $3.20 ex-GST.

BIGRED(ф)

FEED quality. An awned, red-grained winter wheat suited to medium to high-rainfall zones and irrigation. Mid-slow maturing, suitable for dual-purpose applications with early sowing. Released 2021 (tested as AGFWH004718). Marketed by AGF Seeds with good supply for 2023. EPR $3.65 ex-GST.

LRPB BEAUFORT(ф)

FEED quality. An awnless, red-grained, slow-very slow spring variety suited to high-rainfall zones and certain medium-rainfall zones. Released 2008. Marketed by GrainSearch. EPR $3.00 ex-GST.

MANNING(ф)

FEED quality. Very slow maturing, dual-purpose, white-grained winter wheat suited to longer growing season zones and irrigation. Released 2014. Bred by CSIRO and GRDC and marketed by GrainSearch. EPR $3.50 ex-GST.

RGT ACCROC(ф)

FEED quality. An awned, red-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. Released 2017. Bred by RAGT and marketed by Seed Force, an RAGT company. EPR $4.00 ex-GST.

RGT CALABRO

FEED quality. An awned, slow maturing, red-grained winter wheat suited to the high-rainfall zone. Released 2017. Bred by RAGT and marketed by Seed Force, an RAGT company. EPR $4.00 ex-GST.

RGT CESARIO(ф)

FEED quality. Mid-slow maturing, awnless, red-grained winter wheat. Suitable for medium to high-rainfall areas of Victoria. A multipurpose variety that is suited to grazing, silage and grain production. Released 2021 (tested as SFR86-090). Bred by RAGT and marketed by Seed Force, an RAGT company. EPR $4.00 ex-GST.

RGT WAUGH(ф)

FEED quality. 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. Released 2022 (tested as SFR86-085). Bred by RAGT and marketed by Seed Force, an RAGT company. EPR $4.00 ex-GST.

RGT ZANZIBAR

FEED quality. Awned, very slow maturing, red-grained spring variety suited to North Central, North East and South West. Released 2017. Bred by RAGT and marketed by Seed Force, an RAGT company. EPR $4.00 ex-GST.

SEVERN[Φ]

FEED quality. Quick-mid maturing, awnless, white-grained winter wheat suitable for spring and winter grazing, hay and silage production. Dense tillering habit with excellent straw strength for standability. Suitable for medium and high-rainfall areas in Victoria. Released 2021. Marketed by S&W Seed Company. EPR $3.00 ex-GST.

SQP REVENUE[Φ]

FEED quality. A red-grained, slow maturing, awnless winter wheat suited to longer growing season zones and irrigation. Released 2010. Bred by Ausgrainz and CSIRO and marketed by GrainSearch. EPR $3.50 ex-GST.

DURUM WHEAT

BITALLI[Φ]

ADR quality. A quick-mid maturing variety. Released 2019. Bred and marketed by AGT and eligible for AGT Seed Sharing™. EPR $3.50 ex-GST.

DBA-ARTEMIS[Φ]

ADR quality. Well-adapted for production in the southern wheat growing areas, mid maturing and comparable in yield with DBA-Aurora[Φ]. Released 2019. Bred by Durum Breeding Australia. EPR $3.00 ex-GST.

DBA-AURORA[Φ]

ADR quality. A mid maturing variety with good early vigour and weed competitiveness. Released 2014. Bred by Durum Breeding Australia. EPR $3.00 ex-GST.

DBA SPES[Φ]

ADR quality. A mid maturing variety. Comparable or slightly better screenings to DBA-Aurora[Φ] with good grain size. Released 2018. Bred by Durum Breeding Australia. EPR $3.00 ex-GST.

PATRON[Φ]

ADR quality. A mid maturing durum variety, similar to DBA-Aurora[Φ]. Released 2022 (tested as AGTD109). Bred and marketed by AGT. EPR $3.50 ex-GST.

WESTCOURT[Φ]

ADR quality. A mid maturing variety. Released 2019. Bred and marketed by AGT and eligible for AGT Seed Sharing™. EPR $3.50 ex-GST.

Table 1: Disease resistance ratings of wheat varieties.

Variety	Rust			CCN	Crown rot	Eyespot	Powdery mildew	Root lesion nematode		Septoria tritici blotch	Yellow leaf spot
	Stem	Leaf	Stripe					*P. neglectus*	*P. thornei*		
BREAD WHEAT											
Anapurna	MSS	MS	RMR	MRMS	SVS	–	RMR	MS	S (P)	MRMS	MRMS
Ascot(ф)	MRMS	RMR	MSS	MR	S	S	S	S	S	S	MRMS
Ballista(ф)	MR	S	MSS	MRMS	S	S	SVS	S	MRMS	SVS	MS
Beckom(ф)	MRMS	MSS	MRMS	R	S	–	MSS	S	MSS	S	MSS
BigRed(ф)	S	MRMS	RMR	S	S (P)	–	RMR	MS	MS	MR	MR
Boree(ф)	MR	S	SVS	MSS	S	–	SVS	S	MSS	SVS	MRMS
Brumby(ф)	MR	SVS	MS	MRMS	S	S	R/S	MRMS	MS	S	MRMS
Calibre(ф)	MR	S	S	MRMS	S	S	S	S	MSS	S	MRMS
Catapult(ф)	MR	S	SVS	R	MSS	S	S	S	MS	MSS	MRMS
Chief CL Plus(ф)	MR	MR	SVS	MS	MSS	S	SVS	MRMS	MSS	S	MRMS
Coolah(ф)	MR	RMR	MSS	S	MSS	–	S	S	MS	MSS	MSS
Coota(ф)	RMR	MR	S	MR	MSS	S	S	MR	MS	S	MSS
Cutlass(ф)	R	RMR	MSS	MR	S	–	MSS	MSS	MSS	MSS	MSS
Denison(ф)	MS	S	S	MS	MSS	S	S	S	S	MSS	MRMS
DS Bennett(ф)	MS	SVS	S	S	VS	–	R	S	S	MSS	MRMS
EG Titanium(ф)	MS	MS	MR	R	MSS	S	S	MSS	MSS	MSS	MSS
EGA Gregory(ф)	MR	RMR #	MS	S	S	–	RMR	S	MSS	MSS	S
EGA Wedgetail(ф)	MRMS	MSS	MS	S	S	–	MRMS	S	VS	MSS	MSS
Grenade CL Plus(ф)	MR	SVS	MRMS	R	S	–	MSS	MSS	S	S	S
Hammer CL Plus(ф)	MR	S	MS	MRMS	MSS	S	S	MSS	S	MSS	MRMS
Illabo(ф)	MRMS	S	MRMS	MRMS	S	S	R	MSS	MSS	MSS	MS
Kingston(ф)	S	S	MSS	R	S	S	S	S	MRMS	S	MSS
Longsword(ф)	MR	MR #	R/S	MRMS	MSS	S	S	MRMS	MRMS	MS	MRMS
LRPB Anvil CL Plus(ф)	MR	SVS	S	MRMS	MSS	S	VS	MSS	S	VS	MSS
LRPB Bale(ф)	MRMS	MSS	MRMS	R	S	S	MSS	S	S	MSS	SVS
LRPB Dual(ф)	MRMS	MSS	MS	R	S	S	S	MSS	MSS	MSS	S
LRPB Major(ф)	MRMS (P)	MR (P)	MRMS (P)	–	–	–	MSS	–	–	MSS (P)	MS (P)
LRPB Matador(ф)	MS (P)	S (P)	MS (P)	–	–	–	MS	–	–	SVS (P)	MRMS (P)
LRPB Nighthawk(ф)	RMR	MSS	MRMS	MS	MSS	–	SVS	MSS	MS	MS	MS
LRPB Trojan(ф)	MRMS	MR #	S	MS	MS	MS	S	MSS	MSS	S	MSS
Mace(ф)	MRMS	S	SVS	MRMS	S	S	MSS	MS	MS	SVS	MRMS
Manning(ф)	MR	MSS	RMR	S	VS	MS (P)	MS	MSS	S	MRMS/S	MRMS
Mowhawk(ф)	RMR (P)	MR (P)	MRMS (P)	–	–	–	MR	–	–	MSS (P)	MRMS (P)
Razor CL Plus(ф)	MRMS	S	MS	MR	S	S	S	S	MS	SVS	MSS
Reilly(ф)	MR	MSS	MS	R	S	S	S	MS	MSS	S	S
RGT Accroc(ф)	MS	SVS	RMR	S	SVS	MSS (P)	MSS	S	MSS	MS	MRMS
RGT Calabro	MS	MSS	RMR	S	SVS	–	RMR	S	MS	MRMS	MR
RGT Cesario(ф)	R	RMR	RMR	MSS (P)	VS	–	RMR	MRMS	MSS	MRMS	MR
RGT Waugh(ф)	MS	S	RMR	MS	S	–	R	MS	MSS	MRMS	MRMS
RGT Zanzibar	VS	SVS	MRMS	MSS	S	–	MR	S	MS (P)	MSS	MS
RockStar(ф)	MRMS	S	S	MSS	S	S	SVS	MRMS	MS	S	MRMS
Scepter(ф)	MRMS	MSS	MSS	MRMS	MSS	MS (P)	SVS	S	MSS	S	MRMS
Severn(ф)	MS	MRMS	RMR	MSS (P)	S	–	RMR	S	MRMS	MSS	MRMS
Sheriff CL Plus(ф)	MS	SVS	S	MS	S	S	SVS	MRMS	MRMS	S	MRMS
SQP Revenue(ф)	RMR	VS	RMR	S	S	S	R	S	S	MSS	MRMS
Stockade(ф)	MS	MR (P)	MR	MRMS	S	–	SVS	S	MSS	MS	MRMS
Sunblade CL Plus(ф)	MS	MSS	MRMS	MSS	S	–	SVS	MSS	MRMS	S	MSS
Sunflex(ф)	MR	RMR/S	MRMS	MS	MSS	–	S	S	MSS	SVS	MS
Sunmaster(ф)	MS	RMR #	MRMS	MSS	S	–	S	MRMS	MS	S	MSS
Tomahawk CL Plus(ф)	MR (P)	S (P)	MSS (P)	–	–	–	SVS	–	–	S (P)	MRMS (P)
Valiant(ф) CL Plus	MR	S	MSS	MSS (P)	S	S	VS	S	S (P)	MSS	MRMS
Vixen(ф)	MRMS	SVS	SVS	MSS	S	SVS	SVS	MRMS	MS	S	MRMS
Willaura(ф)	MR	MRMS	S	MS	S	–	S	MS	MS	S	MS

Table 1, cont. next page

Table 1: Disease resistance ratings of wheat varieties (continued).

Variety	Rust			CCN	Crown rot	Eyespot	Powdery mildew	Root lesion nematode		Septoria tritici blotch	Yellow leaf spot
	Stem	Leaf	Stripe					*P. neglectus*	*P. thornei*		
DURUM WHEAT											
Bitalli[Φ]	RMR	MR	MRMS	MSS	SVS	–	S	MSS	RMR	MSS	MRMS
DBA Spes[Φ]	R	RMR	MS	MS	VS	–	S	MRMS	RMR	S	MRMS
DBA Vittaroi[Φ]	MR	RMR	MS	S	SVS	–	MRMS	MS	MR	MSS	MRMS
DBA-Artemis[Φ]	MR	RMR	MRMS	MS	VS	–	SVS	MS	MR	MRMS/S	MRMS
Patron[Φ]	RMR	MR (P)	MRMS	S	SVS (P)	–	SVS	MS	MR	MRMS	MRMS
Westcourt[Φ]	RMR	RMR	MR	MSS	VS	–	S	MS	MR	S	MRMS

Source: Agriculture Victoria Cereal Disease Guide (2021), NVT Disease Ratings (2021)

# Varieties marked may be more susceptible if more virulent strains are present. (P) = These ratings are provisional – treat with caution
R = Resistant, RMR = Resistant to moderately resistant, MR = Moderately resistant, MRMS = Moderately resistant to moderately susceptible, MS = Moderately susceptible, MSS = Moderately susceptible to susceptible, S = Susceptible, SVS = Susceptible to very susceptible, VS = Very susceptible.

/ = used to show the reaction of both the dominant strain (present in Victoria) on the left and the minor strain (present in NSW in 2020) on the right.
– denotes no rating available.

Table 2: Mallee main season wheat yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year			2018	2019	2020	2021	2022
Mean yield (t/ha)			1.01	3.24	3.32	2.29	4.67
	Classification	No. trials	4	5	8	8	8
Ascot(Φ)	APW	33	95	101	101	99	106
Ballista(Φ)	AH	29	–	115	110	114	109
Beckom(Φ)	AH	33	101	106	104	103	110
Boree(Φ)	AH	24	–	–	107	108	101
Brumby(Φ)	APW	16	–	–	–	110	104
Calibre(Φ)	AH	24	–	–	111	118	105
Catapult(Φ)	AH	33	108	106	106	106	98
Chief CL Plus(Φ)	APW	33	98	96	99	90	83
Cutlass(Φ)	APW	33	95	93	99	98	107
EG Titanium(Φ)	AH	24	–	–	98	95	94
Elmore CL Plus(Φ)	AH	33	91	91	95	94	101
Emu Rock(Φ)	AH	33	100	103	99	101	94
Grenade CL Plus(Φ)	AH	33	96	93	94	97	99
Hammer CL Plus(Φ)	AH	29	–	98	98	100	92
Kingston(Φ)	AH	29	–	107	106	97	101
Kord CL Plus(Φ)	AH	33	98	90	92	95	92
LRPB Anvil CL Plus(Φ)	AH	24	–	–	99	105	95
LRPB Dual(Φ)	AH	16	–	–	–	99	93
LRPB Matador(Φ)	AH	8	–	–	–	–	102
LRPB Scout(Φ)	AH	33	100	102	100	106	108
LRPB Trojan(Φ)	APW	33	96	99	102	98	102
Mace(Φ)	AH	33	107	104	101	101	91
Razor CL Plus(Φ)	ASW	33	109	109	103	106	96
Reilly(Φ)	AH	29	–	105	101	108	106
RockStar(Φ)	AH	29	–	112	110	111	107
Scepter(Φ)	AH	33	114	111	107	109	101
Sheriff CL Plus(Φ)	APW	33	102	103	103	99	93
Sunblade CL Plus(Φ)	AH	29	–	106	104	106	111
Sunmaster(Φ)	APH	16	–	–	–	103	114
Tomahawk CL Plus(Φ)	APW	8	–	–	–	–	104
Valiant(Φ) CL Plus	AH	16	–	–	–	98	105
Vixen(Φ)	AH	33	114	121	111	112	103
Yitpi(Φ)	AH	33	90	89	95	93	91

Source: National Variety Trials (2018–2022)

– denotes no data available.

Table 3: Wimmera main season wheat yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year			2018	2019	2020	2021	2022
Mean yield (t/ha)			1.98	4.29	3.77	1.56	5.23
	Classification	No. trials	3	4	3	1	3
MILLING WHEAT							
Ascot(Ф)	APW	14	102	96	103	99	105
Ballista(Ф)	AH	11	–	111	111	119	105
Beckom(Ф)	AH	14	103	101	107	104	110
Boree(Ф)	AH	7	–	–	105	110	99
Brumby(Ф)	APW	4	–	–	–	114	103
Calibre(Ф)	AH	7	–	–	111	127	101
Catapult(Ф)	AH	14	104	110	104	110	97
Chief CL Plus(Ф)	APW	14	86	102	89	82	85
Coota(Ф)	AH	11	–	99	100	97	93
Cutlass(Ф)	APW	14	97	99	106	105	114
Denison(Ф)	APW	7	–	–	108	114	101
EG Titanium(Ф)	AH	7	–	–	100	99	98
Elmore CL Plus(Ф)	AH	14	97	93	99	95	105
Emu Rock(Ф)	AH	14	104	97	95	96	88
Grenade CL Plus(Ф)	AH	14	99	93	95	95	98
Hammer CL Plus(Ф)	AH	7	–	–	94	98	90
Kingston(Ф)	AH	11	–	99	103	91	98
Kord CL Plus(Ф)	AH	14	95	95	90	93	93
LRPB Anvil CL Plus(Ф)	AH	4	–	–	–	101	90
LRPB Dual(Ф)	AH	4	–	–	–	100	92
LRPB Major(Ф)	AH	3	–	–	–	–	108
LRPB Matador(Ф)	AH	3	–	–	–	–	99
LRPB Scout(Ф)	AH	14	109	99	106	111	107
LRPB Trojan(Ф)	APW	14	98	101	104	101	105
Mace(Ф)	AH	14	98	104	94	96	88
Razor CL Plus(Ф)	ASW	14	105	104	98	103	90
Reilly(Ф)	AH	11	–	101	105	112	103
RockStar(Ф)	AH	11	–	112	111	117	107
Scepter(Ф)	AH	14	105	111	104	110	98
Sheriff CL Plus(Ф)	APW	14	97	105	98	97	93
Sunblade CL Plus(Ф)	AH	11	–	103	109	111	111
Sunmaster(Ф)	APH	4	–	–	–	106	117
Tomahawk CL Plus(Ф)	APW	3	–	–	–	–	99
Valiant(Ф) CL Plus	AH	7	–	–	103	101	110
Vixen(Ф)	AH	14	110	110	106	109	95
Yitpi(Ф)	AH	14	96	96	96	94	94
SPECIALTY WHEAT							
LRPB Oryx(Ф)	ASFT	11	–	94	96	95	108
LRPB Parakeet(Ф)	ANW	11	–	94	93	92	99

Source: National Variety Trials (2018–2022)

– denotes no data available.

Table 4: North Central main season wheat yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year			2018	2019	2020	2021	2022
Mean yield (t/ha)			0.00	2.89	4.27	4.94	6.18
	Classification	No. trials	0	3	2	2	2
MILLING WHEAT							
Ascot(b)	APW	9	Data not available	104	100	103	104
Ballista(b)	AH	9		121	109	109	109
Beckom(b)	AH	9		108	107	106	107
Boree(b)	AH	6		–	111	107	91
Brumby(b)	APW	4		–	–	107	103
Calibre(b)	AH	6		–	115	107	97
Catapult(b)	AH	9		116	110	106	85
Chief CL Plus(b)	APW	9		106	100	95	70
Coolah(b)	AH	9		88	97	101	103
Coota(b)	AH	9		106	102	101	87
Cosmick(b)	AH	8		103	102	103	107
Cutlass(b)	APW	9		91	103	104	106
Denison(b)	APW	6		–	110	106	91
EG Titanium(b)	AH	6		–	98	97	95
EGA Gregory(b)	APW*	8		79	92	91	94
Elmore CL Plus(b)	AH	9		88	94	97	101
Grenade CL Plus(b)	AH	9		103	96	97	101
Hammer CL Plus(b)	AH	6		–	101	94	90
Kingston(b)	AH	9		113	109	107	103
Kord CL Plus(b)	AH	9		100	96	93	93
LRPB Anvil CL Plus(b)	AH	4		–	–	100	87
LRPB Dual(b)	AH	4		–	–	94	87
LRPB Major(b)	AH	2		–	–	–	108
LRPB Matador(b)	AH	2		–	–	–	100
LRPB Scout(b)	AH	9		107	108	109	108
LRPB Trojan(b)	APW	9		101	105	103	93
Mace(b)	AH	9		112	101	95	87
Razor CL Plus(b)	ASW	9		116	101	98	92
Reilly(b)	AH	9		109	108	108	108
RockStar(b)	AH	9		121	111	112	102
Scepter(b)	AH	9		119	109	106	100
Sheriff CL Plus(b)	APW	9		115	104	101	82
Sunblade CL Plus(b)	AH	9		105	104	107	109
Sunmaster(b)	APH	6		–	103	106	115
Tomahawk CL Plus(b)	APW	2		–	–	–	99
Valiant(b) CL Plus	AH	6		–	97	101	103
Vixen(b)	AH	9		127	113	108	87
Yitpi(b)	AH	9		94	99	94	84
FEED AND SPECIALTY WHEAT							
LRPB Oryx(b)	ASFT	9		103	98	97	105
LRPB Parakeet(b)	ANW	9		97	97	95	100
RGT Zanzibar	FEED	8		80	96	107	134

Source: National Variety Trials (2018–2022)

– denotes no data available, * default classification

Table 5: North East main season wheat yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year			2018	2019	2020	2021	2022
Mean yield (t/ha)			0.00	4.13	5.72	6.74	6.28
	Classification	No. trials	0	4	3	3	2
MILLING WHEAT							
Ascot(Ф)	APW	12	Data not available	106	103	107	99
Ballista(Ф)	AH	12		113	104	105	108
Beckom(Ф)	AH	12		108	108	107	109
Boree(Ф)	AH	8		–	105	105	94
Brumby(Ф)	APW	5		–	–	104	106
Calibre(Ф)	AH	8		–	107	101	101
Catapult(Ф)	AH	12		110	105	105	84
Chief CL Plus(Ф)	APW	12		102	99	97	80
Coolah(Ф)	AH	12		93	101	106	99
Coota(Ф)	AH	12		106	104	106	84
Cutlass(Ф)	APW	12		96	106	107	106
Denison(Ф)	APW	8		–	107	107	92
EG Titanium(Ф)	AH	9		91	99	97	87
EGA Gregory(Ф)	APW*	12		83	92	88	96
Elmore CL Plus(Ф)	AH	12		92	97	98	96
Grenade CL Plus(Ф)	AH	12		98	92	90	98
Hammer CL Plus(Ф)	AH	8		–	95	86	93
Kingston(Ф)	AH	12		109	106	106	102
Kord CL Plus(Ф)	AH	11		96	93	88	98
LRPB Anvil CL Plus(Ф)	AH	5		–	–	89	92
LRPB Cobra(Ф)	AH	12		106	102	108	95
LRPB Dual(Ф)	AH	5		–	–	91	89
LRPB Major(Ф)	AH	2		–	–	–	102
LRPB Matador(Ф)	AH	2		–	–	–	95
LRPB Trojan(Ф)	APW	12		103	106	107	90
Mace(Ф)	AH	12		108	97	91	89
Razor CL Plus(Ф)	ASW	12		110	97	93	93
Reilly(Ф)	AH	12		105	103	104	101
RockStar(Ф)	AH	12		114	108	113	99
Scepter(Ф)	AH	12		114	107	106	102
Sheriff CL Plus(Ф)	APW	12		109	102	102	84
Sunblade CL Plus(Ф)	AH	12		109	109	113	106
Sunmaster(Ф)	APH	8		–	112	115	116
Tomahawk CL Plus(Ф)	APW	2		–	–	–	102
Valiant(Ф) CL Plus	AH	8		–	100	105	103
Vixen(Ф)	AH	12		116	107	107	92
Yitpi(Ф)	AH	12		92	93	87	81
FEED AND SPECIALTY WHEAT							
LRPB Oryx(Ф)	ASFT	11		98	94	90	108
LRPB Parakeet(Ф)	ANW	12		92	90	87	93
RGT Zanzibar	FEED	12		95	109	119	129

Source: National Variety Trials (2018–2022)

– denotes no data available, * default classification

Table 6: Mallee early season wheat yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year			2018	2019	2020	2021	2022
Mean yield (t/ha)			0.00	3.45	5.51	3.77	4.54
	Classification	No. trials	0	1	1	1	1
Catapult(Ф)	AH	4	Data not available	97	106	106	91
Coota(Ф)	AH	3		–	103	106	89
Cutlass(Ф)	APW	3		–	104	105	101
Denison(Ф)	APW	3		–	105	109	100
DS Pascal(Ф)	APW	4		129	101	101	102
EG Titanium(Ф)	AH	4		91	98	103	98
EGA Wedgetail(Ф)	APW*	4		112	91	84	101
Illabo(Ф)	AH	4		114	100	92	102
Longsword(Ф)	AWW	4		74	99	91	90
LRPB Bale(Ф)	APW	2		–	–	100	100
LRPB Beaufort(Ф)	FEED	4		116	104	106	117
LRPB Nighthawk(Ф)	APW	4		111	97	94	105
Mowhawk(Ф)	APW	1		–	–	–	99
RockStar(Ф)	AH	4		127	111	112	99
Sheriff CL Plus(Ф)	APW	4		109	101	104	89
Stockade(Ф)	APW	1		–	–	–	114
Yitpi(Ф)	AH	3		–	98	101	92

Source: National Variety Trials (2018–2022)

– denotes no data available, * default classification

Table 7: Wimmera early season wheat yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year			2018	2019	2020	2021	2022
Mean yield (t/ha)			0.00	5.04	3.55	0.00	5.71
	Classification	No. trials	0	1	1	0	1
Catapult(Ф)	AH	3	Data not available	104	102	Data not available	85
Coota(Ф)	AH	2		–	101		74
Cutlass(Ф)	APW	2		–	102		99
Denison(Ф)	APW	2		–	105		90
DS Pascal(Ф)	APW	3		102	105		109
EG Titanium(Ф)	AH	3		96	102		87
EGA Wedgetail(Ф)	APW*	3		91	88		114
Illabo(Ф)	AH	3		103	94		118
Longsword(Ф)	AWW	3		97	84		92
LRPB Bale(Ф)	APW	1		–	–		98
LRPB Beaufort(Ф)	FEED	3		109	111		128
LRPB Nighthawk(Ф)	APW	3		99	97		116
Mowhawk(Ф)	APW	1		–	–		106
RockStar(Ф)	AH	3		114	113		105
Sheriff CL Plus(Ф)	APW	3		97	103		80
Stockade(Ф)	APW	1		–	–		139
Valiant(Ф) CL Plus	AH	1		–	–		98
Yitpi(Ф)	AH	2		–	98		78

Source: National Variety Trials (2018–2022)

– denotes no data available, * default classification

Table 8: South West early season wheat yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year			2018	2019	2020	2021	2022
Mean yield (t/ha)			5.08	5.97	6.62	6.29	5.12
	Classification	No. trials	3	3	2	3	3
MILLING WHEAT							
Ascot(Φ)	APW	8	–	–	104	99	103
Beckom(Φ)	AH	14	100	106	107	89	98
Catapult(Φ)	AH	14	104	107	106	103	86
Coota(Φ)	AH	11	–	105	105	95	87
Cutlass(Φ)	APW	14	93	93	97	91	87
Denison(Φ)	APW	11	–	101	102	100	85
DS Bennett(Φ)	ASW	14	104	102	101	114	106
DS Pascal(Φ)	APW	14	107	109	105	108	108
EG Jet(Φ)	APW	14	108	111	107	110	115
EG Titanium(Φ)	AH	14	95	93	94	91	83
EGA Wedgetail(Φ)	APW*	14	94	88	91	96	92
Illabo(Φ)	AH	14	103	104	102	105	109
Longsword(Φ)	AWW	14	97	99	101	94	96
LRPB Major(Φ)	AH	3	–	–	–	–	101
LRPB Nighthawk(Φ)	APW	14	99	96	97	103	101
LRPB Trojan(Φ)	APW	14	103	107	105	97	90
Mowhawk(Φ)	APW	3	–	–	–	–	110
RockStar(Φ)	AH	11	–	120	115	114	105
Sheriff CL Plus(Φ)	APW	11	–	106	105	96	89
Stockade(Φ)	APW	6	–	–	–	123	113
Sunflex(Φ)	AH	11	108	109	105	–	99
Valiant(Φ) CL Plus	AH	8	–	–	106	113	102
Willaura(Φ)	AH	6	–	–	–	124	89
FEED WHEAT							
BigRed(Φ)	FEED	6	–	–	–	125	133
LRPB Beaufort(Φ)	FEED	14	111	114	110	123	117
Manning(Φ)	FEED	14	105	100	96	116	116
RGT Accroc(Φ)	FEED	14	107	106	104	121	125
RGT Calabro	FEED	14	109	108	104	118	127
RGT Cesario(Φ)	FEED	8	–	–	104	119	123
RGT Waugh(Φ)	FEED	8	–	–	108	118	137
RGT Zanzibar	FEED	14	106	111	110	110	120
Severn(Φ)	FEED	9	103	–	–	106	108

Source: National Variety Trials (2018–2022)

– denotes no data available, * default classification

Table 9: North East early season wheat yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year			2018	2019	2020	2021	2022
Mean yield (t/ha)			2.72	5.73	6.85	6.82	4.89
	Classification	No. trials	1	1	2	2	1
MILLING WHEAT							
Ascot(Φ)	APW	5	–	–	99	98	94
Beckom(Φ)	AH	7	118	108	96	95	90
Catapult(Φ)	AH	7	126	116	100	102	79
Coolah(Φ)	AH	7	106	102	98	99	91
Coota(Φ)	AH	6	–	110	95	97	78
Cutlass(Φ)	APW	7	108	110	98	100	97
Denison(Φ)	APW	6	–	115	101	103	88
DS Pascal(Φ)	APW	7	101	98	103	101	98
EGA Gregory(Φ)	APW*	7	97	96	86	89	92
EGA Wedgetail(Φ)	APW*	7	88	92	95	97	100
Illabo(Φ)	AH	7	95	96	103	102	106
Longsword(Φ)	AWW	7	107	106	99	99	99
LRPB Major(Φ)	AH	1	–	–	–	–	100
LRPB Nighthawk(Φ)	APW	7	92	97	101	102	105
LRPB Trojan(Φ)	APW	7	121	108	96	97	79
Mowhawk(Φ)	APW	1	–	–	–	–	109
RockStar(Φ)	AH	6	–	115	108	107	89
Sheriff CL Plus(Φ)	APW	6	–	109	96	97	80
Stockade(Φ)	APW	3	–	–	–	113	113
Sunflex(Φ)	AH	5	110	107	106	–	92
Tungsten(Φ)	AH	5	–	–	98	99	88
Valiant(Φ) CL Plus	AH	5	–	–	106	107	96
Willaura(Φ)	AH	3	–	–	–	115	95
FEED WHEAT							
BigRed(Φ)	FEED	3	–	–	–	116	140
LRPB Beaufort(Φ)	FEED	7	101	111	117	116	117
RGT Accroc(Φ)	FEED	7	80	98	116	113	131
RGT Calabro	FEED	7	80	91	112	109	125
RGT Cesario(Φ)	FEED	5	–	–	117	114	132
RGT Waugh(Φ)	FEED	5	–	–	109	104	120
RGT Zanzibar	FEED	7	102	111	114	111	123
Severn(Φ)	FEED	4	92	–	–	102	107

Source: National Variety Trials (2018–2022)

– denotes no data available, * default classification

Table 10: South West long season wheat yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year			2018	2019	2020	2021	2022
Mean yield (t/ha)			5.35	5.67	7.94	4.72	5.74
	Classification	No. trials	2	2	1	1	1
MILLING WHEAT							
Denison[Φ]	APW	3	–	–	89	89	76
DS Bennett[Φ]	ASW	7	100	105	102	123	88
EG Jet[Φ]	APW	3	–	–	98	80	81
EGA Wedgetail[Φ]	APW*	6	90	92	89	89	80
Illabo[Φ]	AH	7	97	97	96	84	96
LRPB Nighthawk[Φ]	APW	7	95	92	97	87	93
Stockade[Φ]	APW	2	–	–	–	114	109
Valiant[Φ] CL Plus	AH	2	–	–	–	92	84
Willaura[Φ]	AH	1	–	–	–	–	91
FEED WHEAT							
Anapurna	FEED	5	–	104	117	115	126
BigRed[Φ]	FEED	2	–	–	–	120	127
Brennan	FEED	7	92	82	91	94	89
Einstein	FEED	7	101	88	94	108	112
LRPB Beaufort[Φ]	FEED	7	108	116	104	99	112
Manning[Φ]	FEED	7	105	95	96	121	118
Naparoo[Φ]	FEED	7	85	52	92	94	76
RGT Accroc[Φ]	FEED	7	114	113	116	133	123
RGT Calabro	FEED	7	113	117	105	115	131
RGT Cesario[Φ]	FEED	3	–	–	116	126	126
RGT Waugh[Φ]	FEED	3	–	–	107	110	136
RGT Zanzibar	FEED	7	104	111	103	101	103
Severn[Φ]	FEED	4	95	–	–	89	92
SQP Revenue[Φ]	FEED	7	104	112	104	115	100

Source: National Variety Trials (2018–2022)

– denotes no data available, * default classification

Table 11: Tasmanian Northern Midlands long season wheat yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year			2018	2019	2020	2021	2022
Mean yield (t/ha)			10.79	11.43	10.64	10.97	10.06
	Classification	No. trials	1	1	1	1	1
MILLING WHEAT							
Denison(Φ)	APW	3	–	–	98	92	86
DS Bennett(Φ)	ASW	5	113	113	97	102	91
EG Jet(Φ)	APW	3	–	–	92	83	99
EGA Wedgetail(Φ)	APW*	4	90	97	91	–	83
Illabo(Φ)	AH	5	93	97	92	84	99
LRPB Nighthawk(Φ)	APW	5	95	95	95	91	98
Stockade(Φ)	APW	1	–	–	–	–	111
Valiant(Φ) CL Plus	AH	2	–	–	–	88	93
Willaura(Φ)	AH	1	–	–	–	–	95
FEED WHEAT							
Anapurna	FEED	4	–	105	111	115	124
BigRed(Φ)	FEED	2	–	–	–	121	125
Brennan	FEED	5	93	97	93	95	85
Einstein	FEED	5	98	102	102	107	94
LRPB Beaufort(Φ)	FEED	5	103	107	98	90	110
Manning(Φ)	FEED	5	103	106	107	116	94
Naparoo(Φ)	FEED	5	102	100	79	81	79
RGT Accroc(Φ)	FEED	5	122	114	112	121	116
RGT Calabro	FEED	5	103	104	115	119	113
RGT Cesario(Φ)	FEED	3	–	–	116	124	120
RGT Ivory	FEED	4	–	93	106	108	103
RGT Waugh(Φ)	FEED	3	–	–	114	118	118
RGT Zanzibar	FEED	4	–	107	96	89	105
Severn(Φ)	FEED	3	96	–	–	93	98
SQP Revenue(Φ)	FEED	5	107	107	103	106	100

Source: National Variety Trials (2018–2022)

– denotes no data available, * default classification

Table 12: Wimmera durum wheat yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year		2018	2019	2020	2021	2022
Mean yield (t/ha)		4.10	4.29	4.49	3.78	4.93
	No. trials	1	1	1	1	1
Bitalli(Φ)	5	105	107	112	109	109
DBA Spes(Φ)	5	103	102	109	106	106
DBA Vittaroi(Φ)	5	98	106	107	101	101
DBA-Artemis(Φ)	5	105	98	104	107	107
DBA-Aurora(Φ)	5	104	105	113	108	108
Patron(Φ)	2	–	–	–	120	121
Saintly(Φ)	5	97	103	99	97	96
Westcourt(Φ)	5	104	99	99	103	104

Source: National Variety Trials (2018–2022)

– denotes no data available.

BARLEY

NEW VARIETIES

The newly released barley varieties for 2023 are Neo(Ф), Newton(Ф), IGB21130, and Spinnaker(Ф).

These newly released varieties have not necessarily been included in the NVT release pathway. As such, there is no NVT disease or yield data available. Contact your local seed marketer or breeder for more detail on these varieties. This includes Neo(Ф), Newton(Ф) and IGB21130.

MARKETING BARLEY

Growers need to consider which varietal option will lead to the greatest profitability. The difference in the price premium paid for malt relative to feed may counteract the yield difference between malt and feed or food varieties. Other scenarios may favour high-yielding feed or food varieties where there is a low probability of achieving malt and a desire for lower input costs.

It is important that growers contact their grain marketers to discuss market demand before sowing a malting variety. Malting barley is grown, stored and sold on a variety-specific basis and it is important to ascertain if the variety chosen is able to be stored and marketed in your area. The Grains Australia preferred list is updated annually as a guide to industry on the market-preferred varieties.

Table 1 lists some of the current varieties under malt barley evaluation by the Malting and Brewing Industry Barley Technical Committee (MBIBTC) in conjunction with Pilot Malting Australia, Pilot Brewing Australia and Grains Australia Barley Council, including the anticipated timeline for accreditation. Accreditation is only granted if the variety satisfies the selection criteria set by the MBIBTC and the Barley Council.

Information available on the Grains Australia website includes:

- list of preferred malting barley varieties, grainsaustralia.com.au/master-lists/malting-variety-list/#barley-master-list/preferred
- updated status of malting barley evaluation, grainsaustralia.com.au/master-lists/malting-variety-list/#barley-master-list/varieties-under-evaluation

Table 1: Released varieties undergoing malt evaluation and expected timeline (Grains Australia).

Variety	Year 0	Stage 1	Stage 2	Target decision date
Beast(Ф)	2020 (accepted)	2021 (passed)	2023	2024
Commodus(Ф) CL	2021 (accepted)	2021 (passed)	2022/2023	2024
Cyclops(Ф)	2021 (accepted)	2021 (passed)	2023	2024
IGB21130	2023 (accepted)	2024	2025	2026
Laperouse(Ф)	2019 (accepted)	2020/2021 (passed)	2021/2023	2024
Minotaur(Ф)	2021 (accepted)	2021/2022 (passed)	2023	2024
Neo(Ф)	2023 (accepted)	2023	2024	2025
Spinnaker(Ф)	2023 (submitted)	–	–	–
Titan AX(Ф)	2023 (accepted)	2023	2024	2025
Yeti(Ф)	2020 (accepted)	2020/2022 (passed)	2023	2025
Zena(Ф) CL	2022 (accepted)	2022 (passed)	2024	2024

MALTING BARLEY

COMPASS[Φ]

Compass[Φ] is a quick maturing variety. It is closely related to Commander[Φ] but is significantly higher yielding and earlier flowering with typical May sowing. Compass[Φ] has relatively weak straw strength and is prone to lodging in high-yielding environments. Released 2013. Bred by University of Adelaide. Seed available from Seednet.
EPR $3.80 ex-GST.

LEABROOK[Φ]

Leabrook[Φ] is a quick maturing, medium-tall barley variety with similar plant type and disease resistance to Compass[Φ]. Leabrook[Φ] was granted Barley Australia malt accreditation in 2021. Released 2020. Bred by University of Adelaide. Seed available and marketed by Seednet.
EPR $3.80 ex-GST.

LG ALESTAR[Φ]

LG Alestar[Φ] is a quick maturing variety with maturity similar to Commander[Φ], suited to the medium to high-rainfall regions. LG Alestar[Φ] was granted Barley Australia malt accreditation in 2021. Released 2017. Bred by Elders with seed available from Elders and Elders-approved commercial partners.
EPR $3.00 ex-GST.

MAXIMUS[Φ] CL

Maximus[Φ] CL is a very quick to quick maturing Clearfield® barley. It has a short coleoptile length and it is recommended that sowing depth be considered carefully. Maximus[Φ] CL was granted Barley Australia malt accreditation in 2021. Released 2020. Bred and marketed by InterGrain. Seed available through InterGrain Seedclub members.
EPR $4.25 ex-GST.

Table 2: Disease resistance ratings of barley varieties.

Variety	Leaf scald	Spot form net blotch	Net form net blotch	Leaf rust	CCN	Root lesion nematode		Crown rot	Ramularia
						P. neglectus	*P. thornei*		
Beast[Φ]	SVS	MS	MR#	S	MR	MRMS	MRMS	S	SVS (P)
Buff[Φ]	SVS	MSS	MS	SVS	–	MRMS	MS	S	SVS (P)
Combat[Φ]	S	RMR	MR (P)	S	MRMS	MR	MS	S (P)	SVS (P)
Commander[Φ]	SVS	MSS	MS	SVS	R	MRMS	MRMS	S	SVS (P)
Commodus[Φ] CL	SVS	MSS	MRMS	S	R	MRMS	MRMS	S (P)	SVS (P)
Compass[Φ]	SVS	MS	MS	SVS	R	MRMS	MR	S	SVS (P)
Cyclops[Φ]	S	MS	MRMS	SVS	S	MRMS	MRMS	S (P)	SVS (P)
Fandaga[Φ]	SVS	S	MRMS	MSS	R	MR	MR	MSS (P)	VS (P)
Fathom[Φ]	S	RMR	MS	MS	R	MRMS	MR	SVS	SVS (P)
La Trobe[Φ]	SVS	S	MR	S	R	MRMS	MRMS	S	SVS (P)
Laperouse[Φ]	VS	MRMS	MR	SVS	S	MR	MR	S	VS (P)
Leabrook[Φ]	SVS	MS	MR	SVS	RMR	MRMS	RMR	S	VS (P)
LG Alestar[Φ]	SVS	S	S	MRMS	R^ (P)	MR	MR	S	SVS (P)
Maximus[Φ] CL	SVS	MS	MRMS	S	R	MRMS	MR	S	VS (P)
Minotaur[Φ]	VS	S	MRMS	SVS	R	MRMS	MR	MS	SVS (P)
RGT Planet[Φ]	SVS	SVS	SVS	MR	R (P)	MRMS	MR	MSS	VS (P)
Rosalind[Φ]	S	S	MR	MRMS	R	MRMS	MR	MSS	VS (P)
Scope CL[Φ]	SVS	MSS	MR	S	S	MRMS	MRMS	S	SVS (P)
Spartacus CL[Φ]	SVS	S	S	S	R	MRMS	MRMS	S	VS (P)
Spinnaker[Φ]	S	SVS	S	MSS	S	MR	MS	MSS (P)	SVS (P)
Titan AX[Φ]	VS	MS	MS	S	MR (P)	R	MR	MSS (P)	VS (P)
Urambie	MS	S	MR	S	–	MRMS	MR	MSS	VS (P)
Westminster[Φ]	SVS	S	MRMS	MR	–	MRMS	MS	S	VS (P)
Yeti[Φ]	VS	MSS	MR	S	RMR	MR	MR	S	VS (P)
Zena[Φ] CL	S (P)	S	S	MSS	R	MRMS	MR	MSS (P)	VS (P)

[F] Food grade barley. (P) = provisional ratings - treat with caution. * provisional based on AGT data.
R = resistant, RMR = resistant to moderately resistant, MR = moderately resistant, MRMS = moderately resistant to moderately susceptible, MS = moderately susceptible, MSS = moderately susceptible to susceptible, S = susceptible, SVS = susceptible to very susceptible, VS = very susceptible.
# Varieties marked may be more susceptible if alternative strains are present
– denotes no rating available

RGT PLANET[Φ]

RGT Planet[Φ] is a quick maturing variety. It is quick to establish and produces high early biomass for excellent weed competition. RGT Planet[Φ] was granted Barley Australia malt accreditation in 2019 and is suitable for domestic and export markets. Released 2016. Bred by RAGT and marketed by Seed Force, an RAGT company. EPR $4.00 ex-GST.

SPARTACUS CL[Φ]

Spartacus CL[Φ] is a quick maturing Clearfield® barley. It is a semi-dwarf and is ideally suited to the low to medium-rainfall regions. It is agronomically similar to La Trobe[Φ]. It is registered for the use of appropriate imidazolinone herbicides. Accredited as a malting barley in 2018, demand for domestic and export markets is high. Growers are advised to consult with their grain marketer about segregation and pricing. Seed available from InterGrain Seedclub members. EPR $4.25 ex-GST.

NON-MALTING BARLEY

COMBAT[Φ]

Mid maturing non-malting variety with a semi-prostrate growth habit providing more weed competition than Rosalind[Φ]. Released 2022 (tested as IGB1944). Bred by InterGrain with seed available for planting in 2023 from local resellers or InterGrain Seedclub members. EPR $3.50 ex-GST.

FANDAGA[Φ]

Fandaga[Φ] is a medium height, mid maturing variety suited to medium to high-rainfall rainfall regions. Grown as a malting barley internationally, Fandaga[Φ] is not currently undertaking Barley Australia malt accreditation and market acceptance may be limited for domestic and export malting markets. Growers are encouraged to discuss options for delivery with domestic maltsters. Released 2022 (tested as NORD 14/2404). Marketed by AGF Seeds. EPR $3.65 ex-GST.

NEW – NEWTON[Φ]

Newton[Φ] is a mid maturing winter feed barley. It is the first new winter barley since Urambie in 2005. It requires a period of cold temperatures (vernalisation) to switch from vegetative to reproductive growth. Its time to flowering is comparable with winter wheat DS Bennett[Φ]. Newton[Φ] is a two-row barley that is suited to early sowing and has the potential to be grazed while maintaining yield potential. It has a high tillering potential and prostrate growth habit, therefore producing high biomass and weed competitiveness. Canopy management is needed in high-rainfall areas with early sowing to achieve high yield potential and maintain harvestability. Newton[Φ] has been entered into the NVT system for the 2023 season, with prior evaluation in Hyper Yielding Cereal projects. Released in 2023 and bred by Secobra Recherches. Seed is available from Seednet. EPR $3.50 ex-GST.

ROSALIND[Φ]

A very broadly adapted, very quick maturing semi-dwarf, feed variety with good yield stability. Maturity is typically slightly later than La Trobe[Φ], but earlier than Scope CL[Φ]. It is ideally suited to May sowings. Bred by InterGrain. Released 2015. Free to trade and available from InterGrain Seedclub members. EPR $3.50 ex-GST.

VARIETIES UNDERGOING MALT EVALUATION

BEAST[Φ]

Beast[Φ] is a very quick maturing variety suited to medium to low-rainfall environments. Similar plant type to Compass[Φ] offering useful levels of early vigour and weed competitiveness, but care should be taken in lodging-susceptible conditions. Beast[Φ] will undergo stage two malt evaluation in 2023, with the earliest possible decision expected in 2024. Released in 2020 and marketed by AGT. Seed available through AGT Affiliates and is eligible for AGT Seed Sharing™. EPR $4.00 ex-GST.

COMMODUS[Φ] CL

Commodus[Φ] CL is a very quick-quick maturing Clearfield® barley, agronomically similar to Compass[Φ]. It is suited to the low-medium rainfall environments but with a similar risk of head loss and lodging as Compass[Φ]. Commodus[Φ] CL is undergoing stage two Barley Australia malt accreditation with the earliest decision expected in 2024. Released 2020. Collaboratively bred by GIA and InterGrain. Marketed by InterGrain. EPR $4.25 ex-GST.

CYCLOPS[Φ]

Cyclops[Φ] is a very quick-quick maturity variety that is broadly adapted and particularly suited to the low to medium-rainfall environments. Short plant type with lower lodging risk compared with Compass[Φ] types. Cyclops[Φ] is undergoing Barley Australia malt accreditation with the earliest decision expected in 2024. Released 2021 (tested as AGTB0200) and marketed by AGT. Seed available through AGT Affiliates and eligible for AGT Seed Sharing™. EPR $4.00 ex-GST.

NEW – IGB21130

IGB21130 is a quick-mid maturing barley variety that is undergoing malt evaluation with Grains Australia. It is slower to maturing that RGT Planet$^{\phi}$, making it one of the slowest barley varieties available. Similar plant type to RGT Planet$^{\phi}$ but IGB21130 is shorter in height. Best suited to the longer growing seasons of the medium to high-rainfall zones where RGT Planet$^{\phi}$ has performed well. IGB21130 has been entered into the NVT system for the 2023 season. It is to be released in 2024 with seed available for the 2025 season. Bred by InterGrain, EPR TBC.

LAPEROUSE$^{\phi}$

A quick maturing variety comparable with Commander$^{\phi}$ with a medium plant height. Undergoing stage two Barley Australia malt accreditation with the earliest decision expected in 2024. Released 2020. Bred by University of Adelaide and SECOBRA Recherches. Seed available from Seednet. EPR $3.80 ex-GST.

MINOTAUR$^{\phi}$

Minotaur$^{\phi}$ is a quick maturity variety suited to the medium to high-rainfall zones, slightly slower in maturity than RGT Planet$^{\phi}$. Minotaur$^{\phi}$ is undergoing Barley Australia malt accreditation with the earliest decision expected in 2024. Released 2021 (tested as AGTB0213) and marketed by AGT. Seed available through AGT Affiliates and is eligible for AGT Seed Sharing™. EPR $4.00 ex-GST.

NEW – NEO$^{\phi}$

Neo$^{\phi}$ is a quick maturing variety with imidazolinone tolerance. It is undergoing malt accreditation with Grains Australia, with a decision expected in 2025. It has similar agronomic characteristics to RGT Planet$^{\phi}$ but with improved grain size. Neo$^{\phi}$ has been entered into the NVT system for the 2023 season. Released in 2023 (tested as IGB22102T) and bred by InterGrain. Seed is available through InterGrain Seedclub members. EPR $4.25 ex-GST.

NEW – SPINNAKER$^{\phi}$

Spinnaker$^{\phi}$ is a very quick to quick maturing variety that has been submitted for malt accreditation with Grains Australia. Spinnaker$^{\phi}$ has a prostrate growth habit and a mature height between Laperouse$^{\phi}$ and RGT Planet$^{\phi}$. Targeted for medium to high-rainfall zones where RGT Planet$^{\phi}$ has performed well. It will be released in early 2024. Bred by Secobra Recherches. Seed will be available for the 2025 season through Seednet. EPR $4.00 ex-GST.

TITAN AX$^{\phi}$

Titan AX$^{\phi}$ is the world's first CoAXium® barley variety, with tolerance to Group 1 herbicide Aggressor®. A quick maturing variety derived from Compass$^{\phi}$ with similar maturity to RGT Planet$^{\phi}$. Titan AX$^{\phi}$ is a potential malting variety and will be submitted for malt evaluation. Released 2022 (tested as AGTB0325). Bred and marketed by AGT. Seed available through AGT Affiliates and eligible for AGT Seed Sharing™. EPR $4.55 ex-GST.

ZENA$^{\phi}$ CL

A quick maturing Clearfield® barley variety suited to medium to high-rainfall environments. Closely related to RGT Planet$^{\phi}$ with similar agronomic characteristics, with the addition of herbicide tolerance. Zena$^{\phi}$ CL was accepted for Barley Australia malt evaluation in 2024. Released 2022 (tested as IGB20125T). Collaboratively bred by GIA and InterGrain. Available from InterGrain Seedclub members. EPR $4.25 ex-GST.

Table 3: Mallee main season barley yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year		2018	2019	2020	2021	2022
Mean yield (t/ha)		1.91	3.30	3.53	2.49	5.53
	No. trials	6	5	6	6	6
MALTING BARLEY						
Buff(Ф)	29	109	103	100	102	97
Commander(Ф)	29	98	95	99	102	99
Compass(Ф)	29	115	108	103	114	95
La Trobe(Ф)	29	110	105	103	100	94
Leabrook(Ф)	29	115	110	106	116	101
LG Alestar(Ф)	18	–	–	92	87	97
Maximus(Ф) CL	29	105	104	106	104	95
RGT Planet(Ф)	29	101	104	103	99	112
Scope CL(Ф)	29	95	92	93	91	91
Spartacus CL(Ф)	29	106	103	103	101	92
NON-MALTING BARLEY						
Combat(Ф)	6	–	–	–	–	115
Fathom(Ф)	29	114	108	104	107	97
Rosalind(Ф)	29	110	110	108	106	104
BARLEY UNDER MALT EVALUATION						
Beast(Ф)	23	–	111	107	115	97
Commodus(Ф) CL	18	–	–	102	112	94
Cyclops(Ф)	18	–	–	113	114	107
Laperouse(Ф)	29	103	102	106	109	101
Minotaur(Ф)	18	–	–	109	108	109
Spinnaker(Ф)	6	–	–	–	–	110
Titan AX(Ф)	6	–	–	–	–	101
Yeti(Ф)	23	–	106	106	109	98
Zena(Ф) CL	6	–	–	–	–	105

Source: National Variety Trials (2018–2022)

– denotes no data available

Table 4: Wimmera main season barley yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year		2018	2019	2020	2021	2022
Mean yield (t/ha)		3.90	5.67	4.75	1.38	6.55
	No. trials	3	4	3	1	3
MALTING BARLEY						
Buff(Ф)	14	102	102	100	97	94
Commander(Ф)	14	101	98	103	104	93
Compass(Ф)	14	104	97	100	109	93
La Trobe(Ф)	14	95	101	94	93	93
Leabrook(Ф)	14	107	100	104	112	99
LG Alestar(Ф)	14	94	97	96	92	100
Maximus(Ф) CL	14	93	98	94	99	95
RGT Planet(Ф)	14	107	109	106	100	115
Spartacus CL(Ф)	14	92	97	92	95	93
NON-MALTING BARLEY						
Combat(Ф)	4	–	–	–	107	109
Fandaga(Ф)	4	–	–	–	104	113
Fathom(Ф)	14	102	101	99	101	96
Rosalind(Ф)	14	102	105	100	101	107
BARLEY UNDER MALT EVALUATION						
Beast(Ф)	11	–	99	100	108	96
Commodus(Ф) CL	7	–	–	99	107	92
Cyclops(Ф)	7	–	–	106	109	103
Laperouse(Ф)	14	100	99	102	108	97
Minotaur(Ф)	7	–	–	106	108	108
Spinnaker(Ф)	4	–	–	–	106	114
Titan AX(Ф)	3	–	–	–	–	96
Yeti(Ф)	11	–	97	98	107	99
Zena(Ф) CL	4	–	–	–	102	113

Source: National Variety Trials (2018–2022)

– denotes no data available

Table 5: North Central main season barley yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year		2018	2019	2020	2021	2022
Mean yield (t/ha)		2.91	3.93	4.34	5.18	6.83
	No. trials	2	1	1	2	2
MALTING BARLEY						
Buff(Φ)	8	108	104	101	102	98
Commander(Φ)	8	99	99	101	96	94
Compass(Φ)	8	116	103	100	97	94
La Trobe(Φ)	8	112	106	102	99	96
Leabrook(Φ)	8	114	106	103	101	99
LG Alestar(Φ)	8	87	92	94	97	100
Maximus(Φ) CL	8	110	103	103	94	94
RGT Planet(Φ)	8	95	106	104	113	115
NON-MALTING BARLEY						
Combat(Φ)	4	–	–	–	116	112
Fathom(Φ)	8	114	106	102	102	98
Rosalind(Φ)	8	109	109	105	106	107
BARLEY UNDER MALT EVALUATION						
Beast(Φ)	6	–	106	103	99	96
Commodus(Φ) CL	5	–	–	99	96	93
Cyclops(Φ)	5	–	–	111	106	103
Laperouse(Φ)	8	106	103	104	96	95
Minotaur(Φ)	5	–	–	108	106	106
Spartacus CL(Φ)	8	110	102	101	95	94
Spinnaker(Φ)	2	–	–	–	–	112
Titan AX(Φ)	2	–	–	–	–	97
Yeti(Φ)	6	–	102	102	96	97
Zena(Φ) CL	4	–	–	–	110	112

Source: National Variety Trials (2018–2022)

– denotes no data available

Table 6: North East main season barley yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year		2018	2019	2020	2021	2022
Mean yield (t/ha)		4.48	5.60	5.05	5.31	5.66
	No. trials	1	1	1	1	1
MALTING BARLEY						
Buff(Ф)	5	102	103	92	91	93
Commander(Ф)	5	94	96	93	95	89
Compass(Ф)	5	102	99	94	95	91
La Trobe(Ф)	5	102	101	99	97	97
Leabrook(Ф)	5	103	103	98	98	97
LG Alestar(Ф)	5	98	96	100	101	102
Maximus(Ф) CL	5	98	94	109	107	102
RGT Planet(Ф)	5	107	112	105	103	113
Spartacus CL(Ф)	5	99	95	105	103	99
NON-MALTING BARLEY						
Combat(Ф)	2	–	–	–	96	103
Fandaga(Ф)	2	–	–	–	100	110
Fathom(Ф)	5	104	103	96	95	96
Rosalind(Ф)	5	106	107	109	106	110
BARLEY UNDER MALT EVALUATION						
Beast(Ф)	4	–	101	100	99	96
Commodus(Ф) CL	3	–	–	94	95	91
Cyclops(Ф)	3	–	–	106	105	103
Laperouse(Ф)	5	95	95	105	106	98
Minotaur(Ф)	3	–	–	110	109	108
Spinnaker(Ф)	1	–	–	–	–	113
Titan AX(Ф)	1	–	–	–	–	93
Yeti(Ф)	4	–	96	109	108	103
Zena(Ф) CL	2	–	–	–	103	113

Source: National Variety Trials (2018–2022)

– denotes no data available

Table 7: South West long season barley yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year		2018	2019	2020	2021	2022
Mean yield (t/ha)		4.64	5.66	6.4	8.78	6.12
	No. trials	2	3	3	2	3
MALTING BARLEY						
Commander(Φ)	16	94	94	96	99	100
Compass(Φ)	16	101	94	100	99	107
Leabrook(Φ)	16	102	99	104	100	110
LG Alestar(Φ)	16	101	107	101	102	93
Maximus(Φ) CL	11	–	103	102	95	101
RGT Planet(Φ)	16	103	116	113	110	98
Spartacus CL(Φ)	16	112	99	97	92	102
Westminster	16	96	99	94	97	94
NON-MALTING BARLEY						
Fandaga(Φ)	5	–	–	–	107	102
Rosalind(Φ)	16	103	100	109	103	115
Urambie	16	95	96	91	94	96
BARLEY UNDER MALT EVALUATION						
Cyclops(Φ)	8	–	–	110	108	109
Laperouse(Φ)	16	111	101	99	95	99
Minotaur(Φ)	8	–	–	100	105	103
Spinnaker(Φ)	5	–	–	–	107	102
Titan AX(Φ)	3	–	–	–	–	105
Yeti(Φ)	11	–	101	101	98	103
Zena(Φ) CL	3	–	–	–	–	98

Source: National Variety Trials (2018–2022)

– denotes no data available

Table 8: Tasmanian Northern Midlands long season barley yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year		2018	2019	2020	2021	2022
Mean yield (t/ha)		0.00	0.00	10.05	9.83	8.50
	No. trials	0	0	1	1	1
MALTING BARLEY						
Commander[Ф]	3	Data not available	Data not available	95	95	93
Compass[Ф]	3			104	98	105
Leabrook[Ф]	3			106	105	114
LG Alestar[Ф]	3			99	102	96
Maximus[Ф] CL	3			107	95	107
RGT Planet[Ф]	3			112	112	105
Spartacus CL[Ф]	3			97	88	101
Westminster[Ф]	3			90	101	96
NON-MALTING BARLEY						
Fandaga[Ф]	2	Data not available	Data not available	–	101	100
Rosalind[Ф]	3			114	109	119
Urambie	3			88	103	100
BARLEY UNDER MALT EVALUATION						
Cyclops[Ф]	3	Data not available	Data not available	108	102	104
Laperouse[Ф]	3			100	89	99
Minotaur[Ф]	3			95	94	90
Spinnaker[Ф]	2			–	110	106
Titan AX[Ф]	1			–	–	97
Yeti[Ф]	3			101	94	102
Zena[Ф] CL	1			–	–	102

Source: National Variety Trials (2018–2022)

– denotes no data available

OAT

NEW VARIETIES

There is one new oat variety for 2023, 13008-18, released by InterGrain. It will be available for the 2024 season subject to milling accreditation.

MILLING OAT

BANNISTER[Φ]

A quick maturing tall dwarf milling variety with wide adaption. Compared with Mitika[Φ] it is about 13 centimetres taller and flowers three to four days later. Similar to Mitika[Φ] for groat percentage. Released 2013. Bred by SARDI National Oat Breeding Program and marketed by Seednet. EPR $2.30 ex-GST.

BILBY[Φ]

A dwarf, quick-maturing milling oat. Grain yield similar to Williams[Φ] and Bannister[Φ], with improved grain quality, low screenings, high groat percentage and improved β-glucan content. Released 2019. Bred by SARDI National Oat Breeding Program and marketed by Barenbrug. EPR $2.50 ex-GST.

DURACK[Φ]

Very quick maturing, moderately tall variety widely adaptable to low to medium-rainfall zones and late planting in high-rainfall regions. Good early vigour and good lodging resistance. Released 2016. Bred by SARDI National Oat Breeding Program and marketed by Barenbrug. EPR $2.30 ex-GST.

KOALA[Φ]

A mid maturing, tall dwarf milling variety. It has good early vigour similar to Bannister[Φ], which is one of its parents, and is a mid-quick maturing variety that can be up to seven days later to head compared with Bannister[Φ] and Williams[Φ]. Grain yield potential is similar to Bannister[Φ] and Williams[Φ] and grain quality comparable with Bannister[Φ]. Tested as 09143-35. Bred by SARDI National Oat Breeding Program and marketed by Seednet with seed production in 2023. EPR $2.50 ex-GST.

KOWARI[Φ]

A quick maturing dwarf milling variety, slightly taller than Mitika[Φ] and suited to medium to high-rainfall zones. It has good grain quality, improved β-glucan content and low screenings with good feed value. Released 2017. Bred by SARDI National Oat Breeding Program and marketed by Barenbrug. EPR $2.50 ex-GST.

MITIKA[Φ]

A quick maturing dwarf variety suited to high-rainfall areas. It has excellent grain quality and provides excellent feed value. It is not suited to areas where CCN is a problem. Released 2005. Marketed by Barenbrug. EPR $2.00 ex-GST.

WILLIAMS[Φ]

A quick maturing, short-tall milling oat suited to medium to high-rainfall zones. It is 15cm taller than Mitika[Φ], 5cm taller than Bannister[Φ] and 15cm shorter than Yallara[Φ]. A similar variety to Bannister[Φ] but with slightly inferior grain quality. Produces high screenings when grown in low-rainfall areas. Released 2013. Bred by SARDI National Oat Breeding Program and marketed by Barenbrug. EPR $2.30 ex-GST.

YALLARA[Φ]

Medium to tall, quick maturing variety suited to milling and hay. Suitable for growing in drier areas. Released 2009. Bred by SARDI and marketed by Seednet. EPR $2.00 ex-GST.

NEW – 13008-18

13008-18 is a medium-tall oat variety developed by InterGrain and released in 2023. It is a quick maturing variety that has good panicle emergence and flowers slightly later than Bannister[Φ]. Good plant height, similar to Williams[Φ] but shorter than Bannister[Φ]. Seed will be available from InterGrain Seedclub members and local reseller pending successful milling accreditation. EPR TBC.

HAY OAT

ARCHER(Φ)

Mid maturing hay oat with single-gene IMI tolerance. Medium plant height with good early vigour and hay colour retention. Improved tolerance to soil residual IMI herbicides, ideal for use where there are IMI residue concerns. Registered with IBS Sentry® herbicide for hay and seed production only. A Sentry® registration for use in grain has been submitted to APVMA, expected late 2022. Pending successful registration, grain will be able to be used as feed grain for a domestic market only and will be unable to be delivered to any local grain receival sites. Released 2022 (tested as GIA1803-040). Bred by GIA and marketed by InterGrain with seed available from local resellers and InterGrain Seedclub members. EPR $3.65 ex-GST.

BRUSHER(Φ)

Quick maturing tall oat, well suited to low and medium-rainfall areas. Released 2003. Bred by SARDI and marketed by AEXCO. EPR $2.00 ex-GST.

FORESTER(Φ)

A medium height, very slow hay variety adapted to high-rainfall and irrigated cropping regions. It is three weeks later to head compared with Wintaroo(Φ). Forester(Φ) has excellent hay quality. Released 2012. Bred by SARDI and marketed by AEXCO. EPR $2.00 ex-GST.

KINGBALE(Φ)

Kingbale(Φ) is a single-gene IMI-tolerant oaten hay variety. Mid maturing tall variety with improved tolerance to soil residual IMI herbicides. Registered with IBS Sentry® herbicide for hay and seed production only. A Sentry® registration for use in grain has been submitted to APVMA, expected late 2022. Pending successful registration, grain will be able to be used as feed grain for a domestic market only and will be unable to be delivered to any local grain receival sites. Released 2019. Bred by GIA and marketed by InterGrain with seed available from local resellers and InterGrain Seedclub members. EPR $3.65 ex-GST.

KOORABUP(Φ)

Mid-tall potential hay oat with mid-quick maturity. Similar height, grain yield and stem diameter to Yallara(Φ) but has a later maturity of two to four days. Hay quality is similar to Wintaroo(Φ). Released 2019. Bred by SARDI and marketed by AEXCO. EPR $2.00 ex-GST.

KULTARR(Φ)

A quick-mid maturing hay oat variety with tall plant height. Slightly later to flower than Brusher(Φ), similar to Mulgara(Φ). Preliminary hay quality data indicated suitable quality profile. Released 2022 (tested as 07423-18). Marketed by InterGrain with seed available from local resellers and InterGrain Seedclub members. EPR $3.00 ex-GST.

MULGARA(Φ)

Quick maturing tall oat. Excellent hay colour and quality similar to Wintaroo(Φ) with good grain yield. Released 2009. Bred by SARDI and marketed by AEXCO. EPR $2.00 ex-GST.

TUNGOO(Φ)

A medium to tall, mid-slow maturing variety. Grain yield poor, but hay yield similar to Kangaroo. Released 2012. Bred by SARDI and marketed by AEXCO. EPR $2.00 ex-GST.

WALLABY(Φ)

Mid-slow maturing hay oat variety with similar yields to Mulgara(Φ) and Brusher(Φ). Good digestibility, high water-soluble carbohydrate levels and low neutral detergent fibres. Moderately tall plant height and likely suited to medium to high-rainfall zones. Released 2022 (tested as 07079-9). Bred by SARDI and marketed by InterGrain with seed available from local resellers and InterGrain Seedclub members. EPR $3.00 ex-GST.

WINTAROO(Φ)

Tall, mid maturing variety for all rainfall zones. Released 2003. Bred by SARDI and marketed by AEXCO. EPR $2.00 ex-GST.

Table 1: Disease resistance ratings for oat varieties.

Variety	Rust		Bacterial blight	Barley yellow dwarf virus	CCN resistance	Red leather leaf	Septoria
	Leaf	Stem					
MILLING OAT							
Bannister[Φ]	MSS	S	S	MS	MR	MSS	MSS
Bilby[Φ]	MS	S	SVS	S	S	MS	S
Durack[Φ]	MSS	S	S	S	MRMS	SVS	S
Koala[Φ]	MSS	MSS	S	MSS	R	S	MSS
Kowari[Φ]	S	S	S	S	S	S	S
Mitika[Φ]	MSS	S	S	SVS	VS	SVS	SVS
Williams[Φ]	MRMS	S	MSS	MSS	S	MS	MSS
Yallara[Φ]	S	MSS	S	MSS	R	SVS	MSS
HAY OAT							
Kingbale[Φ]	MRMS	S	MSS (P)	MS (P)	R	S	MSS
Koorabup[Φ]	MSS	S	SVS	MSS	MRMS	SVS	MRMS#
Mulgara[Φ]	MR	MRMS	MSS	MS	R	SVS	S/MRMS
Tungoo[Φ]	MR	MS	S	MSS	MR	MRMS	MRMS#
Wintaroo[Φ]	MSS	MSS	S	MS	R	S	MSS

R = resistant, RMR = resistant to moderately resistant, MR = moderately resistant, MRMS = moderately resistant to moderately susceptible, MS = moderately susceptible, MSS = moderately susceptible to susceptible, S = susceptible, SVS = susceptible to very susceptible, VS = very susceptible.

/ = Pathotype differences (the second score after a / is the response to a rarer strain), # = may be more susceptible to alternate pathotypes (warning), (P) = provisional rating.
– denotes no rating available.

Table 2: South West oat yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year		2018	2019	2020	2021	2022
Mean yield (t/ha)		3.86	4.97	4.88	5.57	5.93
	No. trials	1	2	2	2	1
Bannister(Ф)	8	102	114	107	114	118
Bilby(Ф)	8	97	102	106	102	101
Durack(Ф)	8	95	75	80	77	68
Koala(Ф)	8	109	116	103	119	132
Koorabup(Ф)	8	97	80	68	85	78
Kowari(Ф)	8	97	93	99	94	91
Mitika(Ф)	8	96	89	93	92	88
Williams(Ф)	8	93	114	100	119	119
Yallara(Ф)	8	97	79	72	80	70
13008-18	3	–	–	–	109	107

Source: National Variety Trials (2018–2022)

– denotes no data available

Table 3: North Central oat yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year		2018	2019	2020	2021	2022
Mean yield (t/ha)		0.63	2.10	4.68	6.08	5.32
	No. trials	2	2	2	2	2
Bannister(Ф)	10	102	104	106	111	103
Bilby(Ф)	10	105	100	100	99	103
Durack(Ф)	10	94	89	89	78	91
Koala(Ф)	10	87	101	109	119	102
Koorabup(Ф)	10	87	86	93	83	86
Kowari(Ф)	10	100	96	96	92	101
Mitika(Ф)	10	95	91	94	88	98
Williams(Ф)	10	103	91	104	103	103
Yallara(Ф)	10	95	94	93	83	85
13008-18	4	–	–	–	112	103

Source: National Variety Trials (2018–2022)

– denotes no data available

Table 4: North East oat yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year		2018	2019	2020	2021	2022
Mean yield (t/ha)		1.89	3.05	4.27	5.39	4.01
	No. trials	1	1	1	1	1
Bannister(Ф)	5	109	94	105	117	107
Bilby(Ф)	5	102	105	104	105	105
Durack(Ф)	5	91	102	82	55	95
Koala(Ф)	5	104	79	107	126	96
Koorabup(Ф)	5	100	83	71	44	101
Kowari(Ф)	5	96	105	99	92	99
Mitika(Ф)	5	95	100	94	81	100
Williams(Ф)	5	121	85	95	94	–
Yallara(Ф)	5	99	93	73	48	98
13008-18	2	–	–	–	123	109

Source: National Variety Trials (2018–2022)

– denotes no data available

CANOLA

NEW VARIETIES

The newly released canola varieties for 2023 are Pioneer® PY422G, Pioneer® PY525G, Captain CL, Nuseed® Ceres IMI, Pioneer® PY421C, ATR-Swordfish(ϕ), DG Avon TT(ϕ), Hyola® Defender CT and InVigor® LR 4540P.

CONVENTIONAL VARIETIES

Hybrid – NUSEED® DIAMOND

Early maturing hybrid of medium height suited to medium-rainfall zones. Blackleg rating RMR. NVT tested 2012–20. Released 2013. Marketed by Nuseed.

Hybrid – NUSEED® QUARTZ

Mid maturing hybrid of medium height, bred to replace AV-Garnet(ϕ). Suited to medium to high-rainfall zones. Blackleg rating R. NVT tested 2016–20. Released 2017. Marketed by Nuseed.

OP – OUTLAW(ϕ)

Early maturing OP conventional canola variety. Suited to low to medium-rainfall zones. Tall plant height similar to AV-Garnet(ϕ). Blackleg rating RMR. Released 2022. Bred and marketed by AGT and eligible for AGT Seed Sharing™. EPR $10.00 ex-GST.

GLYPHOSATE-TOLERANT VARIETIES

Hybrid – DG BINDO TF

Early-mid maturing TruFlex® hybrid with medium height and very good seedling vigour. Released 2021. Bred and marketed by Nutrien Ag Solutions.

Hybrid – DG HOTHAM TF

Mid maturing TruFlex® hybrid with medium-tall height. Suited to medium to high-rainfall zones. Blackleg rating R. NVT tested as DG2103XX in 2022-23. Bred and marketed by Nutrien Ag Solutions.

Hybrid – DG LOFTY TF

Early maturing TruFlex® hybrid. Medium height and very good seedling vigour. Blackleg rating R. NVT tested 2021–23. Released 2021. Bred and marketed by Nutrien Ag Solutions.

NEW – Hybrid – DG 2104XX

A mid-late maturity TruFlex® hybrid. Suited to medium to high-rainfall areas. Blackleg resistance of R (resistance group ABH). Tested in NVT in 2022-23. Marketed by Nutrien Ag Solutions.

Hybrid – HYOLA® 410XX

Early-mid maturing TruFlex® hybrid variety suited to low to high-rainfall zones including irrigation. Blackleg rating MR. Bred and marketed by Pacific Seeds.

Hybrid – INVIGOR® R 4022P

Early-mid maturing TruFlex® hybrid with PodGuard®. Suited to low to medium-rainfall zones. Blackleg rating MR. NVT tested 2019–23. Bred and marketed by BASF.

Hybrid – INVIGOR® R 4520P

Early-mid season TruFlex® hybrid with PodGuard®. Good seedling vigour and medium height. Suitable in mid and late season areas. Blackleg rating MRMS. NVT tested 2019–23. Bred and marketed by BASF.

Hybrid – NUSEED® CONDOR TF

Mid maturing TruFlex® hybrid. Tall height. Tested in Bayer group regulated trials 2018-19 as Xseed™ Condor. Bred and marketed by Nuseed.

Hybrid – NUSEED® EAGLE TF

Mid maturing TruFlex® hybrid variety. Suited to medium to high-rainfall zones. Tall plant height. Blackleg rating R. NVT tested 2021–23 as NCH20Q732. Released 2022. Bred and marketed by Nuseed.

Hybrid – NUSEED® EMU TF

Early maturing TruFlex® hybrid. Suited to low and medium-rainfall areas with a medium height. Blackleg rating MR. NVT tested 2019–23. Bred and marketed by Nuseed.

Hybrid – NUSEED® HUNTER TF

Early-mid maturing TruFlex® hybrid variety. Suited to low to medium-rainfall zones. Medium plant height. Blackleg rating RMR. NVT tested 2021–23 as NCH20Q733. Released 2022. Bred and marketed by Nuseed.

Hybrid – NUSEED® RAPTOR TF

Early-mid maturing TruFlex® hybrid. Medium height. Blackleg rating R. Tested in Bayer group regulated trials 2018-19 as Xseed™ Raptor, NVT tested 2017–23. Bred and marketed by Nuseed.

Hybrid – PIONEER® 44Y27 RR

Early-mid maturing Roundup Ready® hybrid. Ideally suited to low to medium-rainfall zones. Blackleg rating RMR. NVT tested 2016–22. Marketed by Pioneer Brand Seeds.

Hybrid – PIONEER® 44Y30 RR

Early-mid maturing Roundup Ready® hybrid. Adaptable across a broad range of environments. Blackleg rating MR. NVT tested 2020–23. Released 2021. Marketed by Pioneer Brand Seeds.

Hybrid – PIONEER® 45Y28 RR

Mid maturing Roundup Ready® hybrid. Suited to mid-high yielding environments. Medium-tall height. Blackleg rating RMR. NVT tested 2017–23. Released 2018. Marketed by Pioneer Brand Seeds.

NEW – Hybrid – PIONEER® PY422G

Early-mid season Optimum Gly® hybrid variety with a wide area of adaptation. Blackleg rating to be determined (resistance group tbd). Tested in NVT in 2023. Marketed by Pioneer Brand Seeds.

NEW – Hybrid – PIONEER® PY525G

Mid-maturing Optimum Gly® hybrid variety. Suited to medium to high-rainfall zones. Blackleg rating to be determined (resistance group tbd). Tested in NVT in 2023. Marketed by Pioneer Brand Seeds.

VICTORY® Specialty Hybrid – VICTORY® V5003RR

Mid maturing specialty (high oleic, low linolenic acid oil) hybrid. Medium height. Released 2018. Bred by Cargill. Marketed by AWB under contract.

VICTORY® Specialty Hybrid – VICTORY® V55-04TF

Mid maturing TruFlex® specialty (high oleic, low linolenic acid oil) hybrid. Medium height. Suited to early sowing and higher-rainfall areas. Blackleg rating R. NVT tested 2021 as 19TH6009. Released 2022. Bred by Cargill. Marketed by AWB under contract.

IMIDAZOLINONE-TOLERANT VARIETIES

NEW – Hybrid – CAPTAIN CL

Mid-late maturing dual-purpose winter variety. Blackleg rating R (resistance group AH). Not tested in NVT. Released 2023. Marketed by AGF Seeds.

Hybrid – HYOLA® 970CL

Late maturing winter dual-purpose hybrid with very high biomass dry matter and tall plant height. Adapted to high to very high-rainfall zones. Blackleg rating R. Blackleg group H. Tested in company trials 2016–22. Marketed by Pacific Seeds.

NEW – Hybrid – HYOLA® CONTINUUM CL

Early-mid maturing Clearfield® hybrid. Suited to medium to very high-rainfall zones. Blackleg resistance rating R (resistance group ADF). Tested in NVT in 2022-23. Bred and marketed by Pacific Seeds.

Hybrid – HYOLA® EQUINOX CL

Mid maturing spring Clearfield® hybrid. Suitable for medium and high-rainfall zones. Blackleg rating R. Blackleg group ADF. NVT tested 2021–23. Released 2021. Bred and marketed by Pacific Seeds.

Hybrid – HYOLA® FEAST CL

Mid-late maturing Clearfield® winter hybrid, slightly earlier than Hyola® 970CL. Adapted to medium-high to very high-rainfall zones. Blackleg rating R. Blackleg group H. Tested in company trials 2018–22. Released 2021. Marketed by Pacific Seeds.

Hybrid – HYOLA® SOLSTICE CL

Mid maturing Clearfield® hybrid variety. Suited to medium to high-rainfall zones. Blackleg rating R. NVT tested 2021–23 as PS-21CL208. Released 2022. Bred and marketed by Pacific Seeds.

NEW – Hybrid – NUSEED® CERES IMI

Early-maturing Clearfield® hybrid. Suited to low to medium-rainfall areas. Blackleg rating R (resistance group AD). Tested in NVT in 2021–23. Bred and marketed by Nuseed.

Hybrid – PHOENIX CL

Mid-late maturing Clearfield® dual-purpose winter variety. Potential to produce very high biomass, with a slightly shorter mature plant height than some other dual-purpose canola. Suited to early sowing and spring sowing in high-rainfall areas. Blackleg rating R. Not tested in NVT. Independent trial results demonstrate good grain yield and oil content. Released 2019. Marketed by AGF Seeds.

Hybrid – PIONEER® 43Y92 CL

Early maturing Clearfield® hybrid suited to low to medium-rainfall zones. Blackleg rating R. NVT tested 2016–23. Released 2017. Marketed by Pioneer Brand Seeds.

Hybrid – PIONEER® 44Y94 CL

Mid-early maturing Clearfield® hybrid. Medium-tall height. Suited to a range of rainfall zones in dryland and irrigation areas. Blackleg rating RMR. NVT tested 2019–23. Released 2020. Marketed by Pioneer Seeds.

Hybrid – PIONEER® 45Y93 CL

Mid maturing Clearfield® hybrid. Suited to medium to high-rainfall and irrigation zones. Medium-tall height. Blackleg rating RMR. NVT tested 2017–23. Released 2018. Marketed by Pioneer Brand Seeds.

Hybrid – PIONEER® 45Y95 CL

Mid maturing Clearfield® hybrid. Suited to medium to high-rainfall environments and irrigation zones. Blackleg rating RMR. NVT tested 2021–23. Released 2021. Marketed by Pioneer Brand Seeds.

NEW – Hybrid – PIONEER® PY421C

An early to mid-maturing hybrid variety. Provisional blackleg rating of R (provisional resistance group AC). Tested in NVT in 2022-23. Marketed by Pioneer Brand Seeds.

Hybrid – RGT CLAVIER™ CL

Late maturing winter dual-purpose Clearfield® hybrid with very high biomass dry matter and tall plant height. Adapted to high and very high-rainfall zones. Blackleg rating R. Not tested in NVT. Released 2022. Marketed by Seed Force, an RAGT company. EPR $12.00 ex-GST.

Hybrid – RGT NIZZA™ CL

Early winter dual-purpose Clearfield® hybrid. Suited to early sowing and spring sowing in high-rainfall areas. Blackleg rating R. Not tested in NVT. Released 2021. Bred and marketed by Seed Force, an RAGT company. EPR $12.00 ex-GST.

VICTORY® Specialty Hybrid – VICTORY® V7002CL

Early-mid maturing specialty (high oleic, low linolenic acid oil) hybrid. Short to medium height. NVT tested 2017–21. Bred by Cargill. Marketed by AWB under contract.

VICTORY® Specialty Hybrid – VICTORY® V75-03CL

Mid maturing specialty (high oleic, low linolenic acid oil) hybrid. Medium plant height. Blackleg rating RMR. NVT tested 2018–21. Released 2019. Bred by Cargill. Marketed by AWB under contract.

TRIAZINE-TOLERANT VARIETIES

OP – ATR-BLUEFIN(ϕ)

Early maturing triazine-tolerant OP canola variety. Suited to low-rainfall zones. Short height. Blackleg rating RMR. NVT tested 2020–23 as NT0289. Released 2021. Bred and marketed by Nuseed. EPR $5.00 ex-GST.

OP – ATR-BONITO(ϕ)

Early-mid maturing variety for low to medium-rainfall zones. Short to medium height. Alternative to ATR-Stingray(ϕ) or ATR-Gem. Blackleg rating MS. NVT tested 2012–23. Released 2013. Bred and marketed by Nuseed. EPR $5.00 ex-GST.

OP – ATR-STINGRAY(ϕ)

Early maturing variety. Short to medium height. Blackleg rating MRMS. NVT tested 2010–23. Released 2011. Bred by AgSeed Research and Agriculture Victoria. Marketed by Nuseed.

NEW – OP – ATR-SWORDFISH(ф)

Early-mid season maturing open pollinated variety. Short-medium height. Suited to low to medium-rainfall areas. Blackleg resistance rating of MRMS (resistance group AB). Tested in NVT in 2021–23. Marketed by Nuseed. EPR $5.00 ex-GST.

OP – ATR-WAHOO(ф)

Mid maturing variety for medium to high-rainfall zones and irrigation. Medium height. Blackleg rating MRMS. NVT tested 2013–23. Released 2013. Bred and marketed by Nuseed. EPR $5.00.

OP – BANDIT TT(ф)

Early maturing triazine-tolerant OP canola variety, similar in maturity to ATR-Stingray(ф). Suited to low to medium-rainfall zones. Medium plant height. Blackleg rating MRMS. NVT tested 2021–23 as AGTC0006. Released 2022. Bred and marketed by AGT and eligible for AGT Seed Sharing™. EPR $10.00 ex-GST.

NEW – OP – DG AVON TT(ф)

An early maturity, open pollinated triazine variety. Suited to low to medium-rainfall areas. Blackleg rating MR (resistance group AC). Tested in NVT in 2022-23. Marketed by Nutrien Ag Solutions.

OP – DG BIDGEE TT(ф)

Early-mid maturing open pollinated variety. Medium height. Blackleg rating R. NVT tested 2020–23 as DG1903TT. Released 2021. Bred and marketed by Nutrien Ag Solutions. EPR $5.00 ex-GST.

OP – DG MURRAY TT(ф)

Mid-late maturing open pollinated variety with good seedling vigour and medium height. Blackleg rating R. NVT tested 2019–23. Released 2021. Bred and marketed by Nutrien Ag Solutions. EPR $5.00 ex-GST.

OP – DG TORRENS TT(ф)

Early-mid maturing open pollinated triazine-tolerant variety with short-medium height. Suited to low to medium-rainfall zones. Blackleg rating R. NVT tested as DG1924TT. Released 2022. Bred and marketed by Nutrien Ag Solutions. EPR $5.00 ex-GST.

Hybrid – HYOLA® BLAZER TT

Mid-early maturing hybrid. Suited to medium-high to very high-rainfall zones including irrigation. Blackleg rating R. Blackleg group ADF. NVT tested 2019–23. Released 2020. Bred and marketed by Pacific Seeds.

Hybrid – HYTTEC® TRIDENT

Early maturing hybrid. Medium-tall height. Suitable for low to medium-rainfall zones. Blackleg rating R. NVT tested 2017–23. Released 2019. Bred and marketed by Nuseed. EPR $5.00 ex-GST.

Hybrid – HYTTEC® TRIFECTA

Mid maturing hybrid variety. Medium-tall height. Suitable for medium to high-rainfall zones. Blackleg rating R. NVT tested 2018–23. Released 2020. Marketed by Nuseed. EPR $5.00 ex-GST.

Hybrid – HYTTEC® TROPHY

Early to mid-early maturing hybrid. Medium-tall height. Blackleg rating R. NVT tested 2017–23. Released 2017. Marketed by Nuseed. EPR $5.00 ex-GST.

Hybrid – HYTTEC® VELOCITY

Early maturing triazine-tolerant hybrid canola variety. Suited to low-rainfall zones. Medium height. Blackleg rating MR. NVT tested 2020–23 as NCH19T588. Released 2022. Bred and marketed by Nuseed. EPR $5.00 ex-GST.

Hybrid – INVIGOR® T 4510

Early-mid maturing hybrid. Medium-tall height. Suited to low to medium-rainfall zones. Blackleg rating MR. Released 2016. NVT tested 2016–23. Marketed by BASF.

Hybrid – INVIGOR® T 4511

Early-mid triazine-tolerant hybrid of medium height. Excellent early vigour ideally suited to early and mid-season growing regions. Higher seedling vigour and higher oil, a replacement for InVigor® T 4510. Blackleg rating R. NVT tested 2021–23. Released 2022. Marketed by BASF.

Hybrid – INVIGOR® T 6010

Mid-late maturing hybrid variety. Suited to medium to high-rainfall zones. Medium plant height. Replacement for InVigor® T 4510 in higher-rainfall areas. Blackleg rating MRMS. NVT tested 2019–24. Released 2020. Marketed by BASF.

Specialty OP – MONOLA® 420TT

Early-mid maturing open pollinated specialty variety. Short height. Suitable alternative to Monola® 416TT. Blackleg rating RMR. NVT tested 2019–23. Released 2020. Marketed under closed loop contract through Nuseed.

Specialty OP – MONOLA® 422TT

Early-mid maturing open pollinated specialty variety. Short height. Suitable alternative to Monola® 420TT or Monola® 416TT. Blackleg rating MR. NVT tested 2020–23. Released 2021. Marketed under a closed-loop contact through Nuseed.

Specialty Hybrid – MONOLA® H421TT

Early maturing hybrid specialty variety. Medium height. Suitable for low to medium-rainfall zones or a late sowing option. Blackleg rating RMR. NVT tested 2019–23. Marketed under closed-loop contract through Nuseed.

OP – RENEGADE TT(ɬ)

Early-mid maturing triazine-tolerant OP canola variety. Suited to low to medium-rainfall zones. Short to medium plant height. Blackleg rating MR. NVT tested 2021–23 as AGTC0034. Released 2022. Bred and marketed by AGT and eligible for AGT Seed Sharing™. EPR $10.00 ex-GST.

Hybrid – RGT BASELINE® TT

Mid maturing triazine-tolerant hybrid variety. Suited to medium to high-rainfall zones. High oil. Medium-tall height. Blackleg rating MRMS. Blackleg group BC. NVT tested 2021–23 as SFR65-059TT. Released 2022. Bred and marketed by Seed Force, an RAGT company. EPR $10.00 ex-GST.

Hybrid – RGT CAPACITY™ TT

Early-mid maturing. Suited to low-medium rainfall areas. Medium height. Blackleg rating MRMS. Blackleg group B. NVT tested 2019–23. Released 2021. Marketed by Seed Force, an RAGT company. EPR $10.00 ex-GST.

Hybrid – SF DYNATRON TT™

Mid maturing hybrid canola. Medium-tall height. Blackleg rating MRMS. Blackleg group BC. NVT tested 2019–23. Released 2020. Marketed by Seed Force, an RAGT company. EPR $10.00 ex-GST.

Hybrid – SF SPARK TT

Early maturing hybrid. Suited to low-medium rainfall areas. Medium height. Blackleg rating MR. Blackleg group ABDS. NVT tested 2018–23. Released 2018. Marketed by Seed Force, an RAGT company. EPR $10.00 ex-GST.

DUAL HERBICIDE-TOLERANT VARIETIES

GLYPHOSATE + IMIDAZOLINONE

Hybrid – HYOLA® BATTALION XC

Early maturing TruFlex® + Clearfield® hybrid variety with medium height. Suited to low and medium- rainfall areas. Blackleg rating R. Blackleg group ADF. NVT tested 2021–23. Released 2021. Marketed by Pacific Seeds.

Hybrid – HYOLA® GARRISON XC

Mid-early maturing TruFlex® + Clearfield® hybrid variety of medium-tall height. Suited low to high-rainfall zones. Blackleg rating R. Blackleg group ADF. NVT tested 2019–23. Bred and marketed by Pacific Seeds.

Hybrid – HYOLA® REGIMENT XC

Mid maturing TruFlex® + Clearfield® hybrid variety. Suited to medium to high-rainfall zones. Blackleg rating R. NVT tested 2021–23 as 21XC316. Released 2022. Bred and marketed by Pacific Seeds.

IMIDAZOLINONE + TRIAZINE

NEW – Hybrid – HYOLA® DEFENDER CT

Mid-early maturing variety that carries tolerance to both triazine and Clearfield® herbicide chemistries. Suited to medium to high-rainfall zones. Blackleg resistance rating RMR (resistance group ADF). Also designed for imidazolinone soil carryover situations. Tested in NVT in 2022-23. NVT yields in triazine-tolerant tables. Bred and marketed by Pacific Seeds.

Hybrid – HYOLA® ENFORCER CT

Mid-early maturing Clearfield® + triazine-tolerant hybrid variety. Suited to medium-low to high-rainfall zones. Medium height. Blackleg rating R. Blackleg group ADF. NVT tested 2019–23. Released 2020. Bred and marketed by Pacific Seeds.

Hybrid – PIONEER® PY520TC

Mid maturing Clearfield® + triazine-tolerant hybrid variety. Suited to medium to high-rainfall zones. Medium height. Blackleg rating RMR. Marketed by Pioneer Seeds.

GLUFOSINATE + TRIAZINE

Hybrid – INVIGOR® LT 4530P

LibertyLink® hybrid with tolerance to both Liberty® + triazine herbicides and PodGuard® trait for shattering tolerance. Early-mid maturing variety suited to medium-rainfall zones. Blackleg rating RMR. NVT tested 2020–23. Released 2021. Marketed by BASF.

NEW – Hybrid – INVIGOR® LR 4540P

Early-mid maturing, slightly later than InVigor® LT 4530P, glyphosate tolerant and LibertyLink® hybrid variety (classified as GM). Provisional blackleg rating RMR (resistance group B). Suited to medium to high-rainfall areas. PodGuard® technology makes it suited to later windrowing timings or direct harvest. Tested in NVT 2022-23. NVT yields in triazine-tolerant tables. Bred and marketed by BASF.

Table 1: Agronomic and disease information for current canola varieties.

Variety	Herbicide tolerance	Type	Harvest maturity	Blackleg rating (bare seed)	Blackleg rating (ILeVo®)	Blackleg rating (Saltro®)	Blackleg group	EPR $/t	Release	Seed access
Nuseed® Diamond	Conv	Hybrid	3	RMR	R	R	ABF	–	2013	Nuseed
Nuseed® Quartz	Conv	Hybrid	5	R	–	–	ABD	–	2017	Nuseed
Outlaw(Φ)	Conv	OP	3	RMR	R	R	A	10	2022	AGT
AFP Cutubury(Φ)	TT**	OP	4	MS	RMR	RMR	AB	4	2020	Agronomy for Profit
ATR-Bluefin(Φ)	TT	OP	3	RMR	–	–	AB	5	2021	Nuseed
ATR-Bonito(Φ)	TT	OP	4	MS	RMR	R	A	5	2013	Nuseed
ATR-Stingray(Φ)	TT	OP	3	MRMS	R	R	C	–	2011	Nuseed
ATR-Swordfish(Φ)	TT	OP	4	MRMS	–	–	AB	5	2023	Nuseed
ATR-Wahoo(Φ)	TT	OP	6	MRMS	–	–	A	5	2013	Nuseed
Bandit TT(Φ)	TT	OP	3	MRMS	R	R	A	10	2022	AGT
DG Avon(Φ)	TT	OP	3	MR	–	–	AC	–	2023	Nutrien
DG BIDGEE TT(Φ)	TT	OP	4	R	R	R	H	5	2021	Nutrien
DG Murray TT(Φ)	TT	OP	6	R	–	–	H	5	2021	Nutrien
DG Torrens TT(Φ)	TT	OP	4	R	–	R	H	5	2022	Nutrien
Hyola® Blazer TT	TT	Hybrid	4	R	–	–	ADF	–	2020	Pacific Seeds
HyTTec® Trident	TT	Hybrid	3	R	–	–	AD	5	2019	Nuseed
HyTTec® Trifecta	TT	Hybrid	5	R	–	–	ABD	5	2020	Nuseed
HyTTec® Trophy	TT	Hybrid	4	R	R	R	AD	5	2017	Nuseed
HyTTec® Velocity	TT	Hybrid	3	MR	–	–	AB	5	2022	Nuseed
InVigor® T 4510	TT	Hybrid	4	MR	R	R	BF	–	2016	BASF
InVigor® T 4511	TT	Hybrid	4	R	R	–	tbd	–	2022	BASF
InVigor® T 6010	TT	Hybrid	6	MRMS	R	R	BC	–	2020	BASF
Monola® 420 TT	TT	OP-Spec	4	RMR	–	–	AD	–	2020	Nuseed
Monola® 422 TT	TT	OP-Spec	4	MR	–	–	BC	–	2021	Nuseed
Monola® H421 TT	TT	Hybrid-Spec	3	RMR	–	–	BC	–	2020	Nuseed
Renegade TT(Φ)	TT	OP	4	MR	R	R	A	10	2022	AGT
RGT Baseline® TT	TT	Hybrid	5	MRMS	R	R	B	10	2022	RAGT
RGT Capacity™ TT	TT	Hybrid	4	MRMS	R	R	B	10	2021	RAGT
SF Dynatron TT™	TT	Hybrid	5	MRMS	R	R	BC	10	2020	RAGT
SF Spark TT	TT	Hybrid	3	MR	R	R	ABDS	10	2018	RAGT
InVigor® LT 4530P	TT + LL	Hybrid	4	RMR	R	–	BF	–	2021	BASF
InVigor® LR 4540P	GT (TF) + LL	Hybrid	4	RMR	R	–	B	–	2023	BASF
Hyola® Defender CT	TT + CL	Hybrid	4	RMR	–	–	ADF	–	2023	Pacific Seeds
Hyola® Enforcer CT	TT + CL	Hydrid	5	R	–	–	ADF	–	2020	Pacific Seeds
Pioneer® PY520TC	TT + CL	Hybrid	5	RMR	R	R	BC	–	2022	Pioneer
DG Lofty TF	GT (TF)	Hybrid	4	R	–	R	ABH	–	2021	Nutrien
DG Hotham TF	GT (TF)	Hydrid	5	R	–	R	ABH	–	2022	Nutrien
DG 2104XX	GT (TF)	Hybrid	6	MR	–	–	ABD	–	2023	Nutrien
Hyola® 410XX	GT (TF)	Hybrid	4	MR	–	–	ABD	–	2018	Pacific Seeds
InVigor® R 4022P	GT (TF)	Hybrid	4	MR	R	–	ABC	–	2019	BASF
InVigor® R 4520P	GT (TF)	Hybrid	4	MRMS	R	–	B	–	2020	BASF
Nuseed® Eagle TF	GT (TF)	Hybrid	5	R	–	R	ABD	–	2022	Nuseed
Nuseed® Emu TF	GT (TF)	Hybrid	3	MR	–	R	AB	–	2021	Nuseed
Nuseed® Hunter TF	GT (TF)	Hybrid	4	RMR	–	R	AB	–	2022	Nuseed
Nuseed® Raptor TF	GT (TF)	Hybrid	4	R	–	–	AD	–	2019	Nuseed
Pioneer® 44Y27 RR	GT(RR)	Hybrid	4	RMR	R	R	B	–	2017	Pioneer
Pioneer® 44Y30 RR	GT (RR)	Hybrid	4	RMR	–	R	AB	–	2021	Pioneer
Pioneer® 45Y28 RR	GT (RR)	Hybrid	5	RMR	–	R	BC	–	2018	Pioneer

Table 1, cont. next page

Table 1: Agronomic and disease information for current canola varieties (continued).

Variety	Herbicide tolerance	Type	Harvest maturity	Blackleg rating (bare seed)	Blackleg rating (ILeVo®)	Blackleg rating (Saltro®)	Blackleg group	EPR $/t	Release	Seed access
Pioneer® PY422G	GT (OG)	Hybrid	4	tbd	–	–	tbd	–	2023	Pioneer
Pioneer® PY525G	GT (OG)	Hybrid	5	tbd	–	–	tbd	–	2023	Pioneer
VICTORY® V5003RR	GT (RR)	Hybrid-Spec	5	R	R	–	AB	–	2018	AWB
VICTORY® V55-054TF	GT (TF)	Hybrid-Spec	5	R	R	–	tbd	–	2022	AWB
Hyola® Battalion XC	GT (TF) + CL	Hybrid	4	R	–	–	ADF	–	2021	Pacific Seeds
Hyola® Garrison XC	GT (TF) + CL	Hybrid	5	R	–	–	ADF	–	2020	Pacific Seeds
Hyola® Regiment XC	GT (TF) + CL	Hybrid	5	R	–	–	ADFH	–	2022	Pacific Seeds
Hyola® Continuum CL	CL	Hybrid	4	R	–	–	ADF	–	2023	Pacific Seeds
Hyola® Equinox CL	CL	Hybrid	5	R	–	–	ADF	–	2021	Pacific Seeds
Hyola® Solstice CL	CL	Hybrid	5	R	–	–	ADFH	–	2022	Pacific Seeds
Nuseed® Ceres IMI	CL	Hybrid	3	R	–	–	AD	–	2023	Nuseed
Pioneer® 43Y92 CL	CL	Hybrid	3	R	–	R	B	–	2017	Pioneer
Pioneer® 44Y94 CL	CL	Hybrid	4	R	–	R	BC	–	2020	Pioneer
Pioneer® 45Y93 CL	CL	Hybrid	5	R	–	R	BC	–	2018	Pioneer
Pioneer® 45Y95 CL	CL	Hybrid	5	R	–	R	C	–	2021	Pioneer
Pioneer® PY421C	CL	Hybrid	4	RMR	R	R	A	–	2023	Pioneer
VICTORY® V75-03CL	CL	Hybrid-Spec	5	RMR	R	–	AB	–	2019	AWB
Captain CL	CL	Hybrid	Winter	R	–	–	AH	–	2023	AGF Seeds
Hyola® 970CL	CL	Hybrid	Winter	R	–	–	H	–	2018	Pacific Seeds
Hyola® Feast CL	CL	Hybrid	Winter	R	–	–	H	–	2020	Pacific Seeds
Phoenix CL	CL	Hybrid	Winter	R	–	–	B	–	2018	AGF Seeds
RGT Clavier™ CL	CL	Hybrid	Winter	R	R	R	ACH	12	2022	Seed Force
RTG Nizza™ CL	CL	Hybrid	Winter	R	–	–	B	12	2020	AGF Seeds

TT = triazine tolerent, GT = gylphosate tolerant, TF = TruFlex®, RR = Roundup Ready®, OG = Optimum Gly®, LL = LibertyLink® (glufosinate tolerant), CL = Clearfield® (imidazolinone) tolerant, OP = Open pollinated, Spec = Specialty oil, P = provisional rating, ** = tolerant to Group B (Group 2) herbicide residue.

Harvest maturity: 3 = early, 4 = early-mid and mid-early, 5 = mid, 6 = mid-late, winter = very late (information provided by seed companies).

Blackleg resistance rating: R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible.

tbd = to be determined, – denotes no rating available.

Table 2: Mallee low-medium rainfall zone 2018–22.

Long-term yield expressed as a percentage of mean yield.

GLYPHOSATE-TOLERANT CANOLA						
Year		**2018**	**2019**	**2020**	**2021**	**2022**
Mean yield (t/ha)		**1.67**	**1.57**	**2.43**	**0.00**	**3.22**
	No. trials	**1**	**3**	**2**	**0**	**2**
DG Lofty TF	2	–	–	–	Data not available	93
Hyola® 410XX	7	–	84	95		95
Hyola® Battalion XC	4	–	–	94		95
Hyola® Garrison XC	5	–	92	94		–
InVigor® LR 4540P	2	–	–	–		107
InVigor® R 3520	6	104	105	97		–
InVigor® R 4022P	7	–	116	100		101
InVigor® R 4520P	4	–	–	106		107
Nuseed® Emu TF	4	–	–	98		94
Nuseed® Hunter TF	2	–	–	–		107
Nuseed® Raptor TF	4	–	–	97		102
Pioneer® 43Y29 RR	5	–	116	101		–
Pioneer® 44Y27 RR	8	102	103	105		104
Pioneer® 44Y30 RR	2	–	–	–		104
IMIDAZOLINONE-TOLERANT CANOLA						
Year		**2018**	**2019**	**2020**	**2021**	**2022**
Mean yield (t/ha)		**1.17**	**1.84**	**2.28**	**0.00**	**3.18**
	No. trials	**2**	**3**	**2**	**0**	**2**
Hyola® Continuum CL	2	–	–	–	Data not available	101
Hyola® Equinox CL	2	–	–	–		97
Nuseed® Ceres IMI	2	–	–	–		95
Pioneer® 43Y92 CL	9	99	97	97		99
Pioneer® 44Y90 CL	7	109	110	103		–
Pioneer® 44Y94 CL	2	–	–	–		109
VICTORY® V7002CL	7	100	93	90		–
TRIAZINE-TOLERANT CANOLA						
Year		**2018**	**2019**	**2020**	**2021**	**2022**
Mean yield (t/ha)		**1.63**	**1.38**	**2.30**	**0.00**	**2.98**
	No. trials	**1**	**3**	**2**	**0**	**2**
ATR-Bluefin(ф)	4	–	–	92	Data not available	86
ATR-Bonito(ф)	8	98	103	95		93
ATR-Stingray(ф)	8	88	84	91		84
ATR-Swordfish(ф)	2	–	–	–		91
Bandit TT	2	–	–	–		97
DG Avon TT(ф)	2	–	–	–		93
DG BIDGEE TT(ф)	2	–	–	–		103
Hyola® 350TT	6	110	104	97		–
Hyola® Blazer TT	3	–	111	108		–
Hyola® Defender CT	2	–	–	–		108
Hyola® Enforcer CT	6	–	97	97		101
HyTTec® Trident	8	108	97	105		108
HyTTec® Trophy	8	105	103	105		108
HyTTec® Velocity	3	–	–	104		104
InVigor® LT 4530P	4	–	–	104		106
InVigor® T 4510	8	110	111	104		106
InVigor® T 4511	2	–	–	–		103
Monola® H421TT	2	–	–	–		87
Pioneer® 44T02 TT	6	101	94	97		–
Renegade TT(ф)	2	–	–	–		104
RGT Capacity™ TT	4	–	–	104		104
SF Dynatron TT™	5	–	115	105		–
SF Spark TT	8	102	100	100		99

Source: National Variety Trials (2018–2022)

– denotes no data available

Table 3: Wimmera medium-high rainfall zone 2018–22.

Long-term yield expressed as a percentage of mean yield.

GLYPHOSATE-TOLERANT CANOLA						
Year		**2018**	**2019**	**2020**	**2021**	**2022**
Mean yield (t/ha)		**2.05**	**2.00**	**3.46**	**2.97**	**2.78**
	No. trials	**1**	**2**	**2**	**2**	**2**
DG Bindo TF	4	–	–	–	99	101
DG Drummond TF	3	–	–	–	100	106
DG Hotham TF	4	–	–	–	98	106
DG Lofty TF	2	–	–	–	–	96
Hyola® 410XX	6	–	96	94	97	–
Hyola® Battalion XC	4	–	–	96	97	–
Hyola® Garrison XC	8	–	101	97	98	81
Hyola® Regiment XC	2	–	–	–	106	–
InVigor® LR 4540P	2	–	–	–	–	103
InVigor® R 4022P	8	–	107	101	100	100
InVigor® R 4520P	8	–	114	108	104	110
InVigor® R 5520P	7	99	104	98	95	–
Nuseed® Condor TF	8	–	107	107	107	101
Nuseed® Eagle TF	3	–	–	–	106	106
Nuseed® Hunter TF	3	–	–	–	108	103
Nuseed® Raptor TF	8	–	99	104	107	98
Pioneer® 44Y30 RR	6	–	–	106	105	109
Pioneer® 45Y28 RR	7	105	–	106	105	108
VICTORY® V5003RR	7	92	87	90	91	–
VICTORY® V55-04TF	2	–	–	–	96	–
IMIDAZOLINONE-TOLERANT CANOLA						
Year		**2018**	**2019**	**2020**	**2021**	**2022**
Mean yield (t/ha)		**2.14**	**2.03**	**3.47**	**2.70**	**2.68**
	No. trials	**1**	**2**	**3**	**3**	**2**
Hyola® Continuum CL	2	–	–	–	–	116
Hyola® Equinox CL	6	–	–	99	102	–
Hyola® Solstice CL	5	–	–	–	106	86
Nuseed® Ceres IMI	3	–	–	–	103	88
Pioneer® 43Y92 CL	5	99	100	–	–	103
Pioneer® 44Y94 CL	10	–	106	110	109	119
Pioneer® 45Y95 CL	7	109	111	–	109	117
PY421C	2	–	–	–	–	120
PY520TC	2	–	–	–	–	103
VICTORY® V7002CL	9	93	91	89	91	–
VICTORY® V75-03CL	9	95	91	93	96	–
TRIAZINE-TOLERANT CANOLA						
Year		**2018**	**2019**	**2020**	**2021**	**2022**
Mean yield (t/ha)		**1.82**	**1.74**	**3.10**	**2.53**	**2.48**
	No. trials	**1**	**2**	**3**	**3**	**2**
ATR-Bonito$^{\Phi}$	6	91	–	93	–	96
Bandit TT	2	–	–	–	96	–
DG Avon TT$^{\Phi}$	2	–	–	–	–	94
DG BIDGEE TT$^{\Phi}$	5	–	–	–	101	111
DG MURRAY TT$^{\Phi}$	10	–	99	97	97	93
DG Torrens TT$^{\Phi}$	5	–	–	101	–	102

Table 3, cont. next page

Table 3: Wimmera medium-high rainfall zone 2018–22 (continued).

TRIAZINE-TOLERANT CANOLA (continued)						
Year		**2018**	**2019**	**2020**	**2021**	**2022**
Mean yield (t/ha)		**1.82**	**1.74**	**3.10**	**2.53**	**2.48**
	No. trials	**1**	**2**	**3**	**3**	**2**
Hyola® Blazer TT	9	–	113	115	111	121
Hyola® Defender CT	2	–	–	–	–	127
Hyola® Enforcer CT	10	–	107	103	104	93
HyTTec® Trident	11	113	103	108	116	99
HyTTec® Trifecta	8	–	–	115	112	113
HyTTec® Trophy	11	110	109	111	111	111
InVigor® LT 4530P	6	–	–	103	98	103
InVigor® T 4510	11	106	109	107	106	107
InVigor® T 4511	5	–	–	–	108	107
InVigor® T 6010	10	–	115	108	100	113
PY520TC	4	–	–	–	109	120
Renegade TT(D)	4	–	–	–	94	115
RGT Baseline® TT	5	–	–	–	103	121
RGT Capacity™ TT	10	–	112	108	102	112
SF Dynatron TT™	10	–	111	111	106	118
SF Ignite TT	7	106	–	107	99	–
SF Spark TT	10	–	99	100	102	100
SF Turbine TT	9	103	105	104	102	–

Source: National Variety Trials (2018–2022)

– denotes no data available

Table 4: South West medium-high rainfall zone 2018–22.

Long-term yield expressed as a percentage of mean yield.

GLYPHOSATE-TOLERANT CANOLA						
Year		**2018**	**2019**	**2020**	**2021**	**2022**
Mean yield (t/ha)		**2.65**	**2.91**	**3.75**	**4.30**	**3.95**
	No. trials	**3**	**2**	**2**	**3**	**3**
DG Bindo TF	4	–	–	–	101	100
DG Drummond TF	6	–	–	–	106	104
DG Hotham TF	4	–	–	–	105	103
Hyola® Garrison XC	7	–	95	83	94	–
Hyola® Regiment XC	3	–	–	–	–	99
InVigor® LR 4540P	3	–	–	–	–	104
InVigor® R 4022P	7	–	100	102	94	–
InVigor® R 4520P	10	–	110	110	104	108
InVigor® R 5520P	10	102	101	99	95	–
Nuseed® Condor TF	10	–	106	100	110	106
Nuseed® Eagle TF	6	–	–	–	112	109
Nuseed® Hunter TF	3	–	–	–	–	107
Pioneer® 44Y30 RR	8	–	–	108	104	109
Pioneer® 45Y28 RR	11	105	–	106	112	109
VICTORY® V5003RR	9	87	90	89	91	–
VICTORY® V55-04TF	2	–	–	–	96	–
IMIDAZOLINONE-TOLERANT CANOLA						
Year		**2018**	**2019**	**2020**	**2021**	**2022**
Mean yield (t/ha)		**2.72**	**3.16**	**3.63**	**4.27**	**3.90**
	No. trials	**3**	**3**	**2**	**3**	**3**
Hyola® Continuum CL	3	–	–	–	–	116
Hyola® Solstice CL	3	–	–	–	–	95
Pioneer® 44Y94 CL	9	–	110	117	116	120
Pioneer® 45Y93 CL	11	–	113	117	116	116
Pioneer® 45Y95 CL	12	114	113	–	119	118
PY421C	3	–	–	–	–	123
PY520TC	3	–	–	–	–	105
VICTORY® V75-03CL	9	90	92	91	93	–
TRIAZINE-TOLERANT CANOLA						
Year		**2018**	**2019**	**2020**	**2021**	**2022**
Mean yield (t/ha)		**2.55**	**2.91**	**3.17**	**3.80**	**3.42**
	No. trials	**3**	**3**	**2**	**3**	**3**
ATR-Bonito$^{\phi}$	3	–	–	–	–	91
ATR-Wahoo$^{\phi}$	14	99	101	99	98	92
DG BIDGEE TT$^{\phi}$	3	–	–	–	–	108
DG MURRAY TT$^{\phi}$	8	–	–	91	101	91
DG Torrens TT$^{\phi}$	5	–	–	101	–	98
Hyola® Blazer TT	8	–	–	119	123	124
Hyola® Defender CT	3	–	–	–	–	127
Hyola® Enforcer CT	6	–	100	93	102	–
HyTTec® Trifecta	14	118	113	112	121	119
HyTTec® Trophy	14	111	108	110	115	117
InVigor® LT 4530P	8	–	–	104	95	101
InVigor® T 4510	11	109	106	107	106	–
InVigor® T 4511	3	–	–	–	109	–
InVigor® T 6010	11	–	112	112	110	109
PY520TC	6	–	–	–	121	121
Renegade TT$^{\phi}$	2	–	–	–	98	–
RGT Baseline® TT	6	–	–	–	120	117
SF Dynatron TT™	6	–	–	–	115	118
SF Ignite TT	11	112	111	110	112	–

Source: National Variety Trials (2018–2022)

– denotes no data available

Table 5: North Central medium-high rainfall zone 2018–22.

Long-term yield expressed as a percentage of mean yield.

GLYPHOSATE-TOLERANT CANOLA						
Year		2018	2019	2020	2021	2022
Mean yield (t/ha)		1.00	1.91	2.80	3.02	3.28
	No. trials	1	2	2	2	2
DG Bindo TF	4	–	–	–	97	96
DG Lofty TF	4	–	–	–	93	89
Hyola® 410XX	6	–	95	93	97	–
Hyola® Battalion XC	4	–	–	95	98	–
Hyola® Garrison XC	6	–	100	93	100	–
Hyola® Regiment XC	2	–	–	–	108	–
InVigor® LR 4540P	2	–	–	–	–	113
InVigor® R 4022P	8	–	107	105	100	107
InVigor® R 4520P	8	–	115	110	106	118
Nuseed® Emu TF	6	–	–	101	97	90
Nuseed® Hunter TF	3	–	–	–	108	107
Nuseed® Raptor TF	8	–	99	101	106	95
Pioneer® 44Y27 RR	9	102	98	103	103	98
IMIDAZOLINONE-TOLERANT CANOLA						
Year		2018	2019	2020	2021	2022
Mean yield (t/ha)		0.85	1.78	2.89	3.17	3.12
	No. trials	1	2	2	2	2
Hyola® Continuum CL	2	–	–	–	–	107
Hyola® Equinox CL	6	–	–	99	102	88
Hyola® Solstice CL	4	–	–	–	108	95
Nuseed® Ceres IMI	2	–	–	–	–	92
Pioneer® 44Y94 CL	6	–	–	110	110	118
VICTORY® V7002CL	7	88	89	91	89	–
TRIAZINE-TOLERANT CANOLA						
Year		2018	2019	2020	2021	2022
Mean yield (t/ha)		0.67	1.52	2.37	2.91	2.90
	No. trials	1	2	1	2	2
ATR-Bluefin$^{\phi}$	5	–	–	87	86	83
ATR-Bonito$^{\phi}$	8	88	93	94	92	96
ATR-Stingray$^{\phi}$	6	80	–	89	88	87
ATR-Swordfish$^{\phi}$	2	–	–	–	90	–
Bandit TT	1	–	–	–	93	–
DG BIDGEE TT$^{\phi}$	4	–	–	–	105	110
DG MURRAY TT$^{\phi}$	4	–	96	–	–	91
DG Torrens TT$^{\phi}$	5	–	–	99	100	104
Hyola® Blazer TT	5	–	–	114	114	121
Hyola® Defender CT	2	–	–	–	–	122
Hyola® Enforcer CT	7	–	107	102	105	96
HyTTec® Trident	8	121	106	109	112	98
HyTTec® Trifecta	5	125	–	–	116	116
HyTTec® Trophy	8	117	111	111	112	112
HyTTec® Velocity	2	–	–	–	–	106
InVigor® LT 4530P	5	–	–	105	102	111
InVigor® T 4510	8	115	111	108	107	110
InVigor® T 4511	4	–	–	–	108	109
Monola® 420TT	6	83	82	89	–	79
Monola® 422TT	3	–	–	91	–	83
Monola® H421TT	4	–	87	91	–	76
Renegade TT$^{\phi}$	3	–	–	–	97	119
RGT Baseline® TT	3	–	–	–	108	120
RGT Capacity™ TT	7	–	113	108	106	116
SF Dynatron TT™	7	–	114	112	110	120
SF Spark TT	8	101	99	101	101	99
SF Turbine TT	6	106	105	104	103	–

Source: National Variety Trials (2018–2022)

– denotes no data available

Table 6: North East medium-high rainfall zone 2018–22.

Long-term yield expressed as a percentage of mean yield.

GLYPHOSATE-TOLERANT CANOLA						
Year		**2018**	**2019**	**2020**	**2021**	**2022**
Mean yield (t/ha)		**0.89**	**1.36**	**3.07**	**3.10**	**2.95**
	No. trials	**2**	**2**	**2**	**2**	**2**
DG Bindo TF	3	–	–	–	98	99
DG Drummond TF	3	–	–	–	103	108
DG Hotham TF	3	–	–	–	98	104
DG Lofty TF	3	–	–	–	93	90
Hyola® Garrison XC	8	–	93	102	104	83
Hyola® Regiment XC	4	–	–	–	112	96
InVigor® LR 4540P	2	–	–	–	–	107
InVigor® R 4022P	8	–	123	104	97	100
InVigor® R 4520P	8	–	133	112	103	113
InVigor® R 5520P	8	97	108	101	96	–
Nuseed® Eagle TF	2	–	–	–	–	110
Nuseed® Hunter TF	2	–	–	–	–	106
Nuseed® Raptor TF	8	–	92	103	108	99
Pioneer® 45Y28 RR	8	101	–	105	108	111
VICTORY® V5003RR	8	82	73	87	92	–
VICTORY® V55-04TF	2	–	–	–	97	–
IMIDAZOLINONE-TOLERANT CANOLA						
Year		**2018**	**2019**	**2020**	**2021**	**2022**
Mean yield (t/ha)		**0.86**	**1.14**	**2.98**	**2.99**	**3.17**
	No. trials	**2**	**2**	**2**	**2**	**2**
Hyola® Continuum CL	2	–	–	–	–	112
Hyola® Equinox CL	6	–	–	108	105	85
Hyola® Solstice CL	3	–	–	–	113	93
Nuseed® Ceres IMI	4	–	–	–	101	88
Pioneer® 44Y94 CL	8	–	115	109	109	119
Pioneer® 45Y93 CL	9	102	106	108	107	122
Pioneer® 45Y95 CL	6	111	116	–	114	121
PY421C	2	–	–	–	–	122
PY520TC	2	–	–	–	–	103
TRIAZINE-TOLERANT CANOLA						
Year		**2018**	**2019**	**2020**	**2021**	**2022**
Mean yield (t/ha)		**0.89**	**1.21**	**2.79**	**2.67**	**2.68**
	No. trials	**2**	**2**	**2**	**2**	**2**
ATR-Bonito$^{\Phi}$	6	94	–	92	–	93
Bandit TT	1	–	–	–	90	–
DG BIDGEE TT$^{\Phi}$	3	–	–	–	107	116
DG MURRAY TT$^{\Phi}$	5	–	82	–	102	95
DG Torrens TT$^{\Phi}$	4	–	–	103	101	106
Hyola® Blazer TT	6	–	–	115	116	127
Hyola® Defender CT	2	–	–	–	–	130
Hyola® Enforcer CT	8	–	107	108	108	96
HyTTec® Trident	8	–	105	110	117	101
HyTTec® Trifecta	9	113	119	119	119	121
HyTTec® Trophy	10	114	113	112	114	115
InVigor® LT 4530P	6	–	–	107	99	103
InVigor® T 4510	10	113	120	109	107	109
InVigor® T 4511	4	–	–	–	109	109
InVigor® T 6010	8		119	112	106	119
Monola® 420TT	10	96	82	83	87	75
Monola® 422TT	6	–	–	85	90	83
Monola® H421TT	8	–	89	89	92	70
PY520TC	3	–	–	–	113	125
Renegade TT$^{\Phi}$	3	–	–	–	91	114
RGT Baseline® TT	4	–	–	–	109	127
RGT Capacity™ TT	8	–	121	110	105	116
SF Dynatron TT™	8	–	120	112	109	122
SF Ignite TT	8	95	107	109	106	–
SF Turbine TT	8	104	108	105	103	–

Source: National Variety Trials (2018–2022)

– denotes no data available

FIELD PEA

KASPA GRAIN TYPE

GIA KASTAR(Φ)

GIA Kastar(Φ) was the first Kaspa-type field pea with improved tolerance to registered in-crop and residual imidazolinone herbicides. It is a mid flowering and maturity variety with early to mid maturity suited to crop-topping. Erect growth habit with a semi-leafless plant type, resistant to pod shatter at maturity. Uniform red to brown-coloured seed coat, medium in size, marketable for human consumption in the Indian/Asian subcontinent. Released 2019. Bred by GIA with seed available from AG Schilling & Co. EPR $3.30 ex-GST.

KASPA(Φ)

A late flowering, semi-leafless, semi-dwarf field pea. Suited to longer growing season environments. Kaspa(Φ) has fair to good lodging resistance at maturity and pods are resistant to shattering. Kaspa(Φ) seed is distinct from traditional dun types (such as Parafield) as it is red-brown in colour and almost spherical in shape. Kaspa(Φ) needs to be considered carefully before use in low-rainfall areas or areas prone to early periods of high temperature and drought stress due to its late and condensed flowering period. Released 2002. Commercialised by Seednet. EPR $2.00 ex-GST.

PBA BUTLER(Φ)

Mid to late flowering semi-dwarf. High yield potential and adapted to medium to high-rainfall regions. PBA Butler(Φ) has a medium seed size with a yellow split and a uniform tan seed coat colour that is similar to Kaspa(Φ). It has a semi-leafless plant type with vigorous plant growth. Released 2017. Seed available from Seednet. EPR $2.70 ex-GST.

PBA GUNYAH(Φ)

An early to mid flowering, semi-leafless, semi-dwarf field pea. Broadly adapted and better suited to shorter growing season environments. It is better suited to delayed sowing than Kaspa(Φ) for blackspot disease management due to its early flowering characteristic. Released 2010. Commercialised by Seednet. EPR $2.50 ex-GST.

PBA TAYLOR(Φ)

PBA Taylor(Φ) is an early to mid flowering and maturing semi-dwarf, semi-leafless Kaspa-type field pea with non-shattering pod. Wide adaption and good yield potential, which makes it suitable for cultivation across the southern cropping belt. Released 2021 (tested as OZP1408). Seed available from Seednet. EPR $2.70 ex-GST.

PBA TWILIGHT(Φ)

An early flowering, early maturing, semi-dwarf field pea, better suited to short growing season environments and low-rainfall zones. Commercialised by Seednet. EPR $2.50 ex-GST.

PBA WHARTON(Φ)

An early-mid flowering, early maturity, semi-dwarf field pea. Adapted across short to medium growing season environments and is a suitable variety for crop-topping when sowing is delayed. PBA Wharton(Φ) has improved tolerance to soil boron and pods are resistant to shattering. Released 2013. Commercialised by Seednet. EPR $2.60 ex-GST.

DUN GRAIN TYPE

GIA OURSTAR(Φ)

GIA Ourstar(Φ) is the first dun-type pea with improved tolerance to registered in-crop and residual Group 2 herbicides (combined imidazolinone and sulfonylurea). Early-mid flowering and early-mid maturing. It has a semi-leafless plant type with a semi-erect growth habit and moderate resistance to pod shatter at maturity. GIA Ourstar(Φ) was developed by Grains Innovation Australia (GIA) using conventional breeding techniques and commercialised by AG Schilling & Co.
EPR $3.30 ex-GST.

PBA OURA(Φ)

Early to mid flowering and maturing, semi-dwarf, erect growing field pea. Good yield potential and broadly adapted. Fair to good lodging resistance at maturity and has moderate non-sugar-pod resistance to shattering. Released 2011. Commercialised by Seednet. EPR $2.60 ex-GST.

PBA PERCY

An early flowering and maturing conventional pea. High yield potential and broadly adapted. Moderately tolerant to salinity. Poor lodging resistance and requires specialised pea pickup fronts for harvesting. Released 2011. EPR $2.60 ex-GST.

WHITE PEA TYPE

PBA PEARL

An early to mid flowering, semi-leafless, semi-dwarf field pea. PBA Pearl is broadly adapted and produces medium white grain. Good lodging resistance at maturity and has moderate non-sugar-pod resistance to shattering. Marketable for human consumption or for stockfeed. Released 2012.
EPR $2.70 ex-GST.

BLUE PEA TYPE

PBA NOOSA(Φ)

Early-mid flowering and maturing blue field pea. Comparative yield to Kaspa(Φ) and dun-type varieties and higher than existing blue pea variety Excell. PBA Noosa(Φ) has shatter-resistant pods. Released 2021 (tested as OZPB1308). Commercialised by PB Seeds with seed available for 2023 season.
EPR $6.50 ex-GST.

Table 1 : Disease resistance ratings of field pea varieties.

Variety	Bacterial blight	Downy mildew	Powdery mildew	Root lesion nematode (*Pratylenchus*) resistance	
				P. neglectus	*P. thornei*
KASPA GRAIN TYPE					
GIA Kastar(Φ)	S	S	RMR	RMR	MS
Kaspa(Φ)	S	S	S	RMR	MRMS
PBA Butler(Φ)	MS	S	S	RMR	MRMS
PBA Gunyah(Φ)	S	S	S	RMR	MRMS
PBA Taylor(Φ)	S	S	S	RMR	MRMS
PBA Wharton(Φ)	S	S	RMR	MR	MRMS
DUN GRAIN TYPE					
GIA Ourstar(Φ)	S (P)	S	S	MRMS	MSS
PBA Oura(Φ)	MS	S	S	MR	MRMS
PBA Percy(Φ)	MRMS	S	S	RMR	RMR
WHITE PEA GRAIN TYPE					
PBA Pearl	MS	S	S	MR	MRMS
BLUE PEA GRAIN TYPE					
PBA Noosa(Φ)	S	MS	S	MR	MRMS

Source: Agriculture Victoria Pulse Disease Guide (2021)

R = resistant, MR = moderately resistant, MRMS = moderately resistant to moderately susceptible, MS = moderately susceptible, S = susceptible.

(P) = provisional rating and subject to change when additional data becomes available.

Table 2: Mallee field pea yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year		2018	2019	2020	2021	2022
Mean yield (t/ha)		1.01	2.04	1.94	2.31	3.19
	No. trials	2	3	3	3	2
GIA Kastar(Ф)	8	–	–	80	88	76
GIA Ourstar(Ф)	8	–	–	89	81	75
Kaspa(Ф)	13	91	105	96	108	101
PBA Butler(Ф)	10	99	111	–	110	114
PBA Gunyah(Ф)	10	95	100	–	103	96
PBA Noosa(Ф)	13	101	102	103	105	100
PBA Oura(Ф)	13	103	95	100	95	95
PBA Pearl	13	109	106	115	103	112
PBA Percy	13	105	94	104	90	97
PBA Taylor(Ф)	13	101	109	103	109	112
PBA Wharton(Ф)	13	100	98	97	100	98

Source: National Variety Trials (2018–2022)

– denotes no data available.

Table 3: Wimmera field pea yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year		2018	2019	2020	2021	2022
Mean yield (t/ha)		3.11	2.14	3.67	0.00	2.32
	No. trials	1	2	2	0	1
GIA Kastar(Ф)	3	–	–	82	Data not available	70
GIA Ourstar(Ф)	3	–	–	88		89
Kaspa(Ф)	6	98	84	99		109
PBA Butler(Ф)	4	102	102	–		115
PBA Gunyah(Ф)	4	97	89	–		101
PBA Noosa(Ф)	6	97	99	105		104
PBA Oura(Ф)	6	95	106	99		99
PBA Pearl	6	89	123	112		125
PBA Percy	6	86	117	99		112
PBA Taylor(Ф)	6	115	97	105		94
PBA Wharton(Ф)	6	110	95	98		84

Source: National Variety Trials (2018–2022)

– denotes no data available.

Photo: GRDC

LENTIL

CONVENTIONAL VARIETIES

PBA ACE[Φ]

Vigorous, medium-sized, mid-season red lentil with grey seed. PBA Ace[Φ] can be prone to lodging under conditions of high biomass production, often making Botrytis grey mould (BGM) difficult to control. Released 2012. Seed available from PB Seeds. EPR $5.00 ex-GST.

PBA BOLT[Φ]

Medium-sized red lentil with grey seed, adapted to the Mallee and northern Wimmera. Similar to PBA Flash[Φ] with early-mid maturing and improved boron and salinity tolerance over other varieties except PBA Hallmark XT[Φ]. Released 2012. Seed available from PB Seeds. EPR $5.00 ex-GST.

PBA JUMBO2[Φ]

PBA Jumbo2[Φ] is a high-yielding, conventional, non-herbicide tolerant red lentil. It is a large seed size variety with good early vigour, lodging and pod drop resistance, mid flowering and mid maturity. As with other large-seeded varieties, PBA Jumbo2[Φ] is well suited to the post-harvest removal of small broadleaf weed seeds. PBA Jumbo2[Φ] has a grey seed coat and is licensed to PB Seeds. EPR $5.00 ex-GST.

IMIDAZOLINONE-TOLERANT LENTIL

For herbicide-tolerant varieties it is important to adhere to all product labels, plant-back periods and directions for use, as any off-label usage can result in crop damage.

GIA LEADER[Φ]

GIA Leader[Φ] is an imidazolinone-tolerant red lentil variety well suited to reliable lentil growing areas in medium to higher-rainfall zones. This variety has similar imidazolinone and soil residue sulfonylurea herbicide tolerance to existing XT varieties. GIA Leader[Φ] has mid to late flowering and maturity, similar to Nugget, making it well suited to early sowing. It has a spreading plant type, which can assist protection of pods at maturity. Grain has a uniform grey seed coat and is well suited to the medium-sized Nugget-type market. GIA Leader[Φ] is licensed to PB Seeds. EPR $5.40 ex-GST.

GIA LIGHTNING[Φ]

GIA Lightning[Φ] is imidazolinone-tolerant, small, round red lentil with a grey seed coat. Similar Group 2 (IMI and SU) herbicide tolerance to existing XT varieties. Upright plant structure aids in harvestability, with superior adaptation to light sandy soils than GIA Thunder[Φ], making it suitable for growing in Mallee regions. Released 2022 (tested as GIA2003L). Bred by GIA with seed available from PB Seeds. EPR $5.40 ex-GST.

GIA THUNDER[Φ]

GIA Thunder[Φ] is a new, broadly adapted, imidazolinone-tolerant, small, rounded red lentil with a grey seed coat. Similar Group 2 (IMI and SU) herbicide tolerance to existing XT varieties. With a similar maturity to PBA Hurricane XT[Φ], it is mid-flowering and mid-maturing. Released 2022 (tested as GIA2002L). Bred by GIA, licensed by PB Seeds. EPR $5.40 ex-GST.

PBA HALLMARK XT$^{\Phi}$

PBA Hallmark XT$^{\Phi}$ is a high-yielding, imidazolinone-tolerant medium red lentil with mid-flowering and mid-maturity characteristics. PBA Hallmark XT$^{\Phi}$ has moderate to good early crop vigour, a branching plant type and a good level of resistance to shattering and lodging at maturity. PBA Hallmark XT$^{\Phi}$ is commercialised by PB Seeds. EPR $5.40 ex-GST.

PBA HIGHLANDXT$^{\Phi}$

PBA HighlandXT$^{\Phi}$ is an imidazolinone-tolerant medium red lentil with a medium seed size, high early vigour, upright plant type, early flowering and early to mid maturity. It is licensed to PB Seeds. EPR $5.40 ex-GST.

PBA HURRICANE XT$^{\Phi}$

PBA Hurricane XT$^{\Phi}$ is a mid-flowering, mid-maturing variety with small red seed and a grey seed coat. It is commercialised by PB Seeds. EPR $5.00 ex-GST.

PBA KELPIEXT$^{\Phi}$

PBA KelpieXT$^{\Phi}$ is an imidazolinone-tolerant, large seed sized red lentil. This variety provides growers with further market opportunities by combining herbicide tolerance in the large seed market class, complementing previous small and medium red lentil releases. PBA KelpieXT$^{\Phi}$ is an early to mid-flowering and maturing variety. It has moderate to good early vigour, is moderately resistant to pod drop and resistant to seed shattering. It is licensed to Seednet. EPR $5.40 ex-GST.

DUAL HERBICIDE-TOLERANT LENTIL

For herbicide-tolerant varieties it is important to adhere to all product labels, plant-back periods and directions for use, as any off-label usage can result in crop damage.

GIA METRO$^{\Phi}$

GIA Metro$^{\Phi}$ is the first lentil to combine imidazolinone and metribuzin herbicide tolerances. This unique combination of herbicide tolerance will expand weed control options, particularly in light textured soils prone to damage from the application of Group 5 (previously Group C) herbicide metribuzin. Grain yield is significantly lower than existing lentil varieties in the absence of weed pressure or where weeds are controlled effectively without crop damage from metribuzin. GIA Metro$^{\Phi}$ is a large, lens-shaped red lentil with a grey seed coat. It was bred by GIA using a metribuzin trait from a project funded by GRDC (DAS00113) and SARDI. Seed is available from PB Seeds. EPR $7.50 ex-GST.

GIA SIRE$^{\Phi}$

GIA Sire$^{\Phi}$ is the first lentil with improved tolerance to clopyralid soil residues from a prior crop applied according to production label directions. GIA Sire$^{\Phi}$ is a premium small round red lentil with a grey seed coat. Its tolerance to imidazolinone and soil residue sulfonylurea is similar to existing XT varieties. GIA Sire$^{\Phi}$ is slow growing with smaller plant parts, increased basal branching and shorter plant height compared with other lentil varieties. It is best suited to agronomic practices such as early sowing and lentil growing environments that maximise growth, harvest height and grain yield. Avoid growing this variety in low fertility sandy soils or low-rainfall, frost-prone environments. Seed is available only under small-scale controlled release. EPR TBC.

Table 1: Disease resistance ratings of lentil varieties.

Variety	Botrytis grey mould	Ascochyta blight (foliage)		Root lesion nematode (*Pratylenchus*) resistance	
		Pathotype 1 (Nipper$^{\Phi}$ virulent)	Pathotype 2 (PBA Hurricane XT$^{\Phi}$ virulent)	*P. neglectus*	*P. thornei*
CONVENTIONAL					
PBA Ace$^{\Phi}$	MS	R	MR	MR	MRMS
PBA Bolt$^{\Phi}$	S	MR	MRMS	MR	MR
PBA Jumbo2$^{\Phi}$	MR (P)	R	RMR (P)	MR	MRMS
IMIDAZOLINONE TOLERANT					
GIA Leader$^{\Phi}$	MRMS (P)	MR	MR	R	MR
GIA Lightning$^{\Phi}$	MS	R	MRMS	R	MR
GIA Thunder$^{\Phi}$	MRMS	R	MRMS	MR	R
PBA Hallmark XT$^{\Phi}$	MRMS (P)	RMR	MRMS	MR	MRMS
PBA HighlandXT$^{\Phi}$	MS	MR	MR	MR	MRMS
PBA Hurricane XT$^{\Phi}$	MS	RMR	MRMS	MRMS	MRMS
PBA KelpieXT$^{\Phi}$	MS (P)	MRMS	MRMS	MRMS	MRMS
DUAL-HERBICIDE TOLERANT					
GIA Metro$^{\Phi}$	MRMS	MR	RMR	MR	MRMS
GIA Sire$^{\Phi}$	MS	R	MRMS (P)	MR	MR

Source: Agriculture Victoria Pulse Disease Guide (2022)

R = resistant, MRR = moderately resistant to resistant, MR = moderately resistant, MRMS = moderately resistant to moderately susceptible, MS = moderately susceptible, S = susceptible.

(P) = provisional rating and subject to change when additional data becomes available.

Table 2: Mallee lentil yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year		2018	2019	2020	2021	2022
Mean yield (t/ha)		0.55	2.06	1.57	2.72	3.17
	No. trials	3	2	3	1	3
CONVENTIONAL						
PBA Ace(Ф)	12	104	103	111	103	89
PBA Bolt(Ф)	12	99	100	100	103	77
PBA Jumbo2(Ф)	12	107	105	110	101	114
IMIDAZOLINONE TOLERANT						
GIA Leader(Ф)	6	–	101	106	100	–
GIA Lightning(Ф)	7	–	–	117	109	94
GIA Thunder(Ф)	7	–	–	117	106	124
PBA Hallmark XT(Ф)	4	96	100	94	–	99
PBA HighlandXT(Ф)	4	107	96	102	–	96
PBA Hurricane XT(Ф)	4	99	100	97	–	100
PBA Kelpie XT(Ф)	12	96	98	90	100	101
DUAL HERBICIDE TOLERANT						
GIA Metro(Ф)	3	–	–	–	–	73
GIA Sire(Ф)	4	–	–	–	98	62

Source: National Variety Trials (2018–2022)

– denotes no data available.

Table 3: Wimmera lentil yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year		2018	2019	2020	2021	2022
Mean yield (t/ha)		2.70	1.99	2.50	0.00	2.27
	No. trials	1	2	2	0	1
CONVENTIONAL						
PBA Ace(Ф)	6	102	103	103	Data not available	90
PBA Bolt(Ф)	6	97	101	99		68
PBA Jumbo2(Ф)	6	99	105	115		133
IMIDAZOLINONE-TOLERANT						
GIA Leader(Ф)	5	–	99	96	Data not available	102
GIA Lightning(Ф)	3	–	–	100		80
GIA Thunder(Ф)	3	–	–	106		126
PBA Hallmark XT(Ф)	6	104	98	93		94
PBA HighlandXT(Ф)	6	100	103	101		85
PBA Hurricane XT(Ф)	6	103	100	96		95
PBA Kelpie XT(Ф)	6	95	100	102		99
DUAL HERBICIDE-TOLERANT						
GIA Metro(Ф)	1	–	–	–	Data not available	76
GIA Sire(Ф)	1	–	–	–		36

Source: National Variety Trials (2018–2022)

– denotes no data available.

FABA BEAN

VARIETIES

FARAH$^{\Phi}$

Farah$^{\Phi}$ was selected directly from Fiesta VF and is identical in many respects, with more uniform seed size and colour. Long-term Farah$^{\Phi}$ yields are similar to Fiesta VF but are generally lower than more recent varieties in most regions of southern Australia. Farah$^{\Phi}$ is licensed to Barenbrug. EPR $3.00 ex-GST.

NURA$^{\Phi}$

Nura$^{\Phi}$ is a medium-sized faba bean. It is generally shorter than Fiesta VF and Farah$^{\Phi}$, meaning it is less likely to lodge. However, since its bottom pods are closer to the ground, harvest can be more difficult in lower-rainfall districts or when sown late. Nura$^{\Phi}$ has good seed appearance, a light buff colour, with minimal seed staining and discolouration. Flowering time is generally around seven days later than Farah$^{\Phi}$, although it has similar maturity. Nura$^{\Phi}$ is licensed to Seednet. EPR $3.00 ex-GST.

PBA AMBERLEY$^{\Phi}$

PBA Amberley$^{\Phi}$ is the newest variety, commercially released in 2019. It is a later-flowering type and has shown good adaptation in higher-rainfall and longer growing season environments. PBA Amberley$^{\Phi}$ has very good standing ability and a low incidence of 'necking'. PBA Amberley$^{\Phi}$ seed is similar in size to PBA Samira$^{\Phi}$ and PBA Marne$^{\Phi}$ and should be suitable to co-mingle with these other varieties. PBA Amberley$^{\Phi}$ is commercialised by Seednet. EPR $3.50 ex-GST.

PBA BENDOC$^{\Phi}$

PBA Bendoc$^{\Phi}$ is an imidazolinone-tolerant variety. Imidazolinone-tolerant faba beans are on the Nufarm Intercept® herbicide label for post-emergent application. Herbicide application timings, product label rates, plant-back periods and all label directions for use must be followed. Generally, PBA Bendoc$^{\Phi}$ yields are comparable with conventional varieties and there is no obvious yield penalty associated with herbicide tolerance. PBA Bendoc$^{\Phi}$ is similar in flowering time and maturity to Nura$^{\Phi}$ and PBA Samira$^{\Phi}$. PBA Bendoc$^{\Phi}$ produces small-medium sized, light brown seeds that are comparable in size to Nura$^{\Phi}$. PBA Bendoc$^{\Phi}$ seed can be co-mingled with Nura$^{\Phi}$ for the Middle East market. PBA Bendoc$^{\Phi}$ is licensed to Seednet. EPR $3.90 ex-GST.

PBA MARNE$^{\Phi}$

PBA Marne$^{\Phi}$ is an early-flowering faba bean variety that is well suited to lower-rainfall or short-season environments. It is the earliest flowering variety, with maturity similar to PBA Samira$^{\Phi}$. It is medium-short in height. PBA Marne$^{\Phi}$ produces medium-sized seeds that are comparable in size with PBA Samira$^{\Phi}$. The overall colour of seed is similar to other major bean varieties. PBA Marne$^{\Phi}$ seed can be co-mingled with PBA Samira$^{\Phi}$ for the Middle East market. PBA Marne$^{\Phi}$ is licensed to Seednet. EPR $3.50 ex-GST.

PBA RANA$^{\Phi}$

PBA Rana$^{\Phi}$ is a mid-flowering (similar to Nura$^{\Phi}$) and mid-maturity (later than Nura$^{\Phi}$ and Farah$^{\Phi}$) variety with good vigour and stem strength. PBA Rana$^{\Phi}$ is well adapted to high-rainfall areas with longer growing seasons. It produces large, plump, light brown seeds and is suited to the Egyptian market requirements for that grade. PBA Rana$^{\Phi}$ is licensed to Seednet. EPR $3.50 ex-GST.

PBA SAMIRA(Φ)

PBA Samira(Φ) is mid flowering, five to 10 days later than Fiesta VF and Farah(Φ), but matures at the same time as these varieties. Seeds of PBA Samira(Φ) are slightly larger than Fiesta VF, Farah(Φ) and Nura(Φ), but the overall seed colour is similar for all varieties. PBA Samira(Φ) can be co-mingled with these varieties for the Middle East market. PBA Samira(Φ) is licensed to Seednet. EPR $3.50 ex-GST.

PBA ZAHRA(Φ)

PBA Zahra(Φ) seed is uniform large size and colour and should be suitable to co-mingle with PBA Rana(Φ) for a medium-large faba bean category for the Egyptian market. PBA Zahra(Φ) is mid flowering, similar to Nura(Φ), PBA Rana(Φ) and PBA Samira(Φ) and with mid maturity similar to PBA Rana(Φ). It is a medium-tall plant similar to PBA Rana(Φ) and taller than other varieties. PBA Zahra(Φ) is licensed to Seednet. EPR $3.50 ex-GST.

BROAD BEAN VARIETY NOTES

AQUADULCE

Aquadulce is a tall broad bean variety with late flowering and maturity, suited to areas with at least 500 millimetres average annual rainfall. The large seed size means it is considered a specialty and commands a price premium over faba beans, dependent on grading and seed size.

PBA KAREEMA

Selected from Aquadulce, PBA Kareema has similar plant type and adaptation but larger and more uniform seed and fewer ‘evergreens’. It is well adapted to the very high-rainfall broad bean districts in the lower south-east of SA. The large seed size means it is considered a specialty and commands a price premium over faba beans, dependent on grading and seed size.

Table 1: Disease resistance ratings of faba bean varieties.

Variety	Ascochyta blight	Cercospora leaf spot	Chocolate spot	*Pratylenchus Thornei*	Rust
Farah(Φ)	S	S	S	MS	VS
Fiesta VF	S	S	S	MS	VS
Nura(Φ)	MR (P)	S	MS	MS	VS
PBA Amberley(Φ)	MR	S	MRMS	MS	VS
PBA Bendoc(Φ)	MR	S	S	MRMS	VS
PBA Marne(Φ)	MS (P)	S	MS (P)	MS	MRMS
PBA Rana(Φ)	MRMS	S	MS	MS	VS
PBA Samira(Φ)	MR (P)	S	MS	MRMS	S
PBA Zahra(Φ)	MRMS	S	MS	MRMS	S

Source: Agriculture Victoria Pulse Disease Guide (2021)

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

(P) = provisional rating and subject to change when additional data becomes available.

Table 2: Wimmera faba bean yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year		2018	2019	2020	2021	2022
Mean yield t/ha		2.90	2.68	4.44	2.79	3.72
	No. trials	2	2	3	3	1
Farah(Ф)	11	95	94	101	97	90
Fiesta VF	11	93	91	99	97	93
Nura(Ф)	11	96	98	104	93	74
PBA Amberley(Ф)	11	96	94	101	100	102
PBA Bendoc(Ф)	11	102	107	104	95	80
PBA Marne(Ф)	11	97	93	84	100	100
PBA Rana(Ф)	8	83	78	–	92	78
PBA Samira(Ф)	11	98	96	102	101	104
PBA Zahra(Ф)	11	99	97	99	101	104

Source: National Variety Trials (2018–2022)

– denotes no data available.

Table 3: South West faba bean yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year		2018	2019	2020	2021	2022
Mean yield t/ha		0.00	0.00	4.09	6.27	3.38
	No. trials	0	0	1	1	1
Farah(Ф)	3	Data not available	Data not available	99	94	88
Fiesta VF	3			100	94	95
Nura(Ф)	3			97	89	64
PBA Amberley(Ф)	3			105	99	106
PBA Bendoc(Ф)	3			90	93	64
PBA Marne(Ф)	3			77	94	103
PBA Rana(Ф)	2			–	86	79
PBA Samira(Ф)	3			106	101	105
PBA Zahra(Ф)	3			92	99	94

Source: National Variety Trials (2018–2022)

– denotes no data available.

Table 4: North East faba bean yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year		2018	2019	2020	2021	2022
Mean yield t/ha		0.00	0.00	4.00	5.26	3.67
	No. trials	0	0	1	1	1
Farah(Ф)	3	Data not available	Data not available	101	95	90
Fiesta VF	3			101	97	95
Nura(Ф)	3			101	86	71
PBA Amberley(Ф)	3			102	101	105
PBA Bendoc(Ф)	3			97	89	71
PBA Marne(Ф)	3			94	107	97
PBA Rana(Ф)	2			–	85	86
PBA Samira(Ф)	3			101	101	105
PBA Zahra(Ф)	3			96	101	94

Source: National Variety Trials (2018–2022)

– denotes no data available.

Photo: Nicole Baxter

LUPIN

NARROW-LEAFED VARIETIES

COYOTE[Φ]

Coyote[Φ] is the first narrow-leaf lupin variety released by AGT, coming out in Western Australia in the spring of 2019. Coyote[Φ] has metribuzin tolerance similar to Mandelup[Φ]. It has similar maturity to PBA Barlock[Φ], which is slightly later than PBA Jurien[Φ]. Coyote[Φ] is licensed to AGT. EPR $3.00 ex-GST.

JENABILLUP[Φ]

Jenabillup[Φ] is a tall, mid-flowering, narrow-leaf lupin with early vigour. Moderately resistant to lodging and suitable for medium to high-rainfall areas. Longer flowering window compared with Mandelup[Φ], making it less suitable for crop-topping. Released 2007. Jenabillup[Φ] is licensed to Seednet. EPR $2.30 ex-GST.

LAWLER[Φ]

Early maturing variety, slightly quicker than Mandelup[Φ]. Lawler[Φ] is widely adapted throughout southern and eastern Australian lupin growing areas. Lawler[Φ] has an improved stem Phomopsis rating compared with Coyote[Φ] and is tolerant of metribuzin. Released 2022 (tested as AGTP0006). Bred and marketed by AGT and eligible for AGT Seed Sharing™. EPR $4.00 ex-GST.

MANDELUP[Φ]

A tall, very early flowering and maturing variety suited to low to medium-rainfall zones. Suitable for crop-topping. Mandelup[Φ] may lodge in high-rainfall zones. Pod shatter with delayed harvest, and poorer seed germination rate and establishment may occur with rain before harvest. It can produce unacceptable levels of seed Phomopsis under high disease pressure. Good tolerance to metribuzin. Released 2004. Free to trade. EPR $2.30 ex-GST.

PBA BARLOCK[Φ]

Early variety with slightly later flowering and maturity than Mandelup[Φ], with a greater yield potential, reduced lodging and good resistance to pod shatter. Similar metribuzin tolerance to that of Mandelup[Φ] and better than Wonga. Released 2014. Commercialised by Seednet. EPR $2.50 ex-GST.

PBA BATEMAN[Φ]

Early flowering lupin variety with improved virus resistance. Well suited to high-rainfall zones. PBA Bateman[Φ] has similar harvest grain loss risk and resistance to pod shatter as PBA Barlock[Φ]. Similar tolerance to metribuzin as PBA Jurien[Φ], PBA Barlock[Φ] and PBA Gunyidi[Φ]. Released 2017. Seed available from Seednet. EPR $2.60 ex-GST.

PBA JURIEN[Φ]

Early maturing variety. Early flowering, slightly earlier than PBA Barlock[Φ]. Similar in height to Mandelup[Φ]. Medium to large seed, similar to Mandelup[Φ]. Alkaloid content similar to PBA Gunyidi[Φ]. Has tolerance to metribuzin. Released 2015. Developed by PBA. Commercialised by Seednet. EPR $2.50 ex-GST.

ALBUS

LUXOR[Φ]

Luxor[Φ] is earlier flowering than its sister line Rosetta. Resistant to Pleiochaeta root rot (the cause of many seedling deaths in older varieties). Released in 2005. Commercialised by Seednet. EPR $2.80 ex-GST.

MURRINGO[Φ]

Mid flowering variety suited to medium to high-rainfall zones. Slightly longer maturity time to Luxor[Φ]. Suitable sowing window of late April to mid-May. Murringo[Φ] should not be grown within one kilometre of other albus lupin varieties to avoid contamination. Released 2017. Seed available from Seednet. EPR $3.20 ex-GST.

Table 1: Disease resistance ratings of narrow-leaf lupin varieties.

Variety	Anthracnose	Cucumber mosaic virus	Phomopsis	
			Pod/seed	Stem
Coyote[Φ]	MRMS	MRMS	MRMS	S
Gidgee[Φ]	MR	MRMS (P)	S (P)	MR (P)
Jenabillup[Φ]	MS	MRMS	MR	MS
Lawler[Φ]	MR	MRMS	MS	MR
Mandelup[Φ]	MRMS	MRMS	S	RMR
PBA Barlock[Φ]	RMR	MR	MR	MR
PBA Bateman[Φ]	MRMS	MR	MS	RMR
PBA Gunyidi[Φ]	MRMS	MRMS	MRMS	RMR
PBA Jurien[Φ]	RMR	MS	MR	RMR
Quilinock	VS	MRMS	S	S
Wonga	RMR	MR	MR	MR

Source: NVT disease ratings, nvt.grdc.com.au

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

(P) = provisional rating and subject to change when additional data becomes available.

Table 2: Victorian Mallee lupin yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

Year		2018	2019	2020	2021	2022
Mean yield (t/ha)		0.87	1.35	1.55	1.75	3.42
	No. trials	1	2	2	2	2
Coyote[Φ]	7	119	–	96	103	98
Gidgee[Φ]	4	–	–	–	106	95
Jenabillup[Φ]	7	94	114	104	–	109
Lawler[Φ]	6	–	–	94	102	99
Mandelup[Φ]	8	–	96	95	99	104
PBA Barlock[Φ]	8	–	103	95	96	112
PBA Bateman[Φ]	9	111	108	101	100	106
PBA Gunyidi[Φ]	7	–	115	106	100	105
PBA Jurien[Φ]	7	–	103	95	99	112
Quilinock	9	99	105	99	94	108
Wonga	9	89	96	95	91	104

Source: National Variety Trials (2018–2022)

– denotes no data available.

CHICKPEA

DESI TYPE VARIETIES

CBA CAPTAIN(ф)

Medium seed size variety with broad adaptation to Victorian desi chickpea growing areas. Erect plant type with good plant height and height to lowest pod. Mid flowering and early to mid maturing in Victorian growing environments. Good grain size, similar to PBA HatTrick(ф), and meets the requirements of a Jimbour-type suitable for the subcontinent market. Released 2020. Seed can be obtained through Chickpea Breeding Australia seed partners. EPR $4.50 ex-GST.

PBA MAIDEN(ф)

Medium-large angular seed size, yellow-tan in colour. Mid flowering and mid maturing. Growers are advised to investigate delivery and marketing options prior to growing this variety due to its unique and favourable seed characteristics. Suitable for the whole seed market. Released 2013. EPR $4.00 ex-GST.

PBA SLASHER(ф)

PBA Slasher(ф) is a mid flowering and maturing variety. Seed is medium sized, tan-brown in colour and has excellent milling quality. Suitable for both split and whole seed markets. Released 2009. Commercialised by Seednet. EPR $4.00 ex-GST.

PBA STRIKER(ф)

Excellent adaptation to short season environments due to early flowering and maturity. Medium seed size. Excellent milling quality. Released 2012. Commercialised by Seednet. EPR $4.00 ex-GST.

KABULI TYPE VARIETIES

GENESIS™ 090

Genesis™ 090 is a small-seeded kabuli-type chickpea. Genesis™ 090 has medium height with erect branches and yields similar to PBA Monarch(ф) but lower than PBA Slasher(ф) and PBA Striker(ф). For seed distribution contact PB Seeds.
EPR $5.00 ex-GST.

GENESIS™ KALKEE

Genesis™ Kalkee is a large-seeded kabuli type, mid-late in flowering and late maturity. For seed distribution contact PB Seeds. EPR $5.00 ex-GST.

PBA MAGNUS(ф)

PBA Magnus(ф) is a large seed sized kabuli chickpea. It has a significant yield advantage over Genesis™ Kalkee, particularly in short growing environments, due to its slightly earlier flowering and maturity. It is well adapted to the medium-rainfall chickpea growing regions of south-eastern Australia, where the large seed size can be obtained. PBA Magnus(ф) has a similar plant type to Genesis™ 090 and similar mid flowering and mid maturity. Seed of PBA Magnus(ф) is larger than Genesis™ Kalkee, with a cream-beige seed coat and good wrinkling characteristics. It has received favourable feedback on seed quality from domestic and international traders. PBA Magnus(ф) is licensed to PB Seeds.
EPR $6.50 ex-GST.

PBA MONARCH(Ф)

PBA Monarch(Ф) is a high-yielding, medium-sized kabuli chickpea with adaptation to all kabuli growing areas of Australia. PBA Monarch(Ф) is particularly well suited to the shorter-seasoned, medium-rainfall environments of south-eastern Australia due to improved adaptation through earlier flowering and maturity compared with Genesis™ 090 and Genesis™ Kalkee. It has similar yields and larger seed size than Genesis™ 090, although it is higher yielding than this variety in low-yielding (<1t/ha) situations. In shorter growing seasons, PBA Monarch(Ф) may have larger and more consistent seed size than other medium-sized varieties due to its earlier pod fill timing. Seed is licensed to Seednet. EPR $6.50 ex-GST.

PBA ROYAL(Ф)

PBA Royal(Ф) is a high-yielding medium-sized kabuli chickpea. It is particularly well adapted to the medium-rainfall chickpea-growing regions of south-eastern Australia. PBA Royal(Ф) has medium plant height with early to mid-flowering and mid maturity. Seed is licensed to Seednet. EPR $6.50 ex-GST.

Table 1: Disease resistance ratings of chickpea varieties.

Variety	Ascochyta blight* (foliar rating)	Root lesion nematode (*Pratylenchus*) resistance	
		P. neglectus	*P. thornei*
DESI TYPE			
CBA Captain(Ф)	S	MR	MS
PBA Maiden(Ф)	S	MRMS	MRMS
PBA Slasher(Ф)	S	MRMS	MRMS
PBA Striker(Ф)	S	MRMS	MRMS
KABULI TYPE			
Genesis™ 090	MS	MRMS	MSS
Genesis™ Kalkee	S	MRMS	MS
PBA Magnus(Ф)	S	MR	MSS
PBA Monarch(Ф)	S	MRMS	MS
PBA Royal(Ф)	MS	MR	MS

Source: Agriculture Victoria Pulse Disease Guide (2021); NVT Disease ratings (2021).

R = resistant, MR = moderately resistant, MRMS = moderately resistant to moderately susceptible, MS = moderately susceptible, S = susceptible.

* Foliar Ascochyta blight ratings for southern region only (pathotype 1).

Table 2: Victorian Mallee desi and kabuli chickpea yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

DESI TYPE						
Year		**2018**	**2019**	**2020**	**2021**	**2022**
Mean yield (t/ha)		**0.54**	**1.40**	**1.81**	**1.72**	**1.84**
	No. trials	**2**	**2**	**2**	**2**	**1**
CBA Captain(Ф)	9	105	104	98	107	97
PBA Maiden(Ф)	9	105	109	106	104	87
PBA Slasher(Ф)	9	99	107	103	106	102
PBA Striker(Ф)	9	103	110	105	108	94
KABULI TYPE						
Year		**2018**	**2019**	**2020**	**2021**	**2022**
Mean yield (t/ha)		**0.54**	**1.46**	**1.76**	**1.79**	**1.32**
	No. trials	**2**	**2**	**2**	**2**	**1**
Genesis™ 090	9	98	96	99	101	107
Genesis™ Kalkee	9	98	90	101	85	90
PBA Magnus(Ф)	8	103	103	95	97	–
PBA Monarch(Ф)	9	95	98	102	96	107
PBA Royal(Ф)	9	104	101	102	100	89

Source: National Variety Trials (2018–2022)

NVT are not designed to allow comparisons of varieties between desi and kabuli chickpeas where they are not evaluated in the same trial.

– denotes no data available.

Table 3: Wimmera desi and kabuli chickpea yield performance 2018–22.

Long-term yield expressed as a percentage of mean yield.

DESI TYPE						
Year		**2018**	**2019**	**2020**	**2021**	**2022**
Mean yield (t/ha)		**1.50**	**1.49**	**1.58**	**0.00**	**1.50**
	No. trials	**2**	**2**	**2**	**0**	**1**
CBA Captain(Ф)	7	103	104	104	Data not available	99
PBA Maiden(Ф)	7	87	101	108		99
PBA Slasher(Ф)	7	96	103	108		102
PBA Striker(Ф)	7	93	104	111		103
KABULI TYPE						
Year		**2018**	**2019**	**2020**	**2021**	**2022**
Mean yield (t/ha)		**1.44**	**1.37**	**1.73**	**0.00**	**1.20**
	No. trials	**2**	**2**	**2**	**0**	**1**
Genesis™ 090	7	110	101	99	Data not available	111
Genesis™ Kalkee	7	96	90	88		98
PBA Magnus(Ф)	7	97	98	96		84
PBA Monarch(Ф)	7	87	97	101		92
PBA Royal(Ф)	7	103	100	100		107

Source: National Variety Trials (2018–2022)

NVT are not designed to allow comparisons of varieties between desi and kabuli chickpeas where they are not evaluated in the same trial.

– denotes no data available.

Photo: Clarisa Collis

VETCH

Vetch is a multipurpose species grown mostly as a disease break crop, in rotation with cereals, in a wide range of soil types from light sands to heavier clay soils. The versatility of common vetch varieties (Languedoc, Blanchefleur, Studenica$^{\Phi}$, Morava, Rasina$^{\Phi}$, Volga$^{\Phi}$, Timok$^{\Phi}$ and Cummins) allows cropping for grain or hay, early grazing as green pasture, dry grazing or green manure production.

Grain or multipurpose vetches are grown in the lower to middle rainfall cereal areas of southern Australia, and their grain yields have been similar to field pea in these areas. Note that common vetch grain is not used for human consumption.

Grain from Morava, Studenica$^{\Phi}$, Rasina$^{\Phi}$, Volga$^{\Phi}$ and Timok$^{\Phi}$ can be used without limit to feed all ruminants and up to 20 per cent in the diet of pigs. These five varieties possess less toxin in grain (<0.65 per cent) compared with Blanchefleur (0.95 per cent) and Languedoc (1.65 per cent).

Forage vetches are used for hay, green manure or mid to late-winter feed for grazing. There is a purple vetch variety Popany (*Vicia benghalensis*) and woolly pod vetch varieties (*Vicia villosa*) Namoi, Capello, Haymaker and RM4$^{\Phi}$. Forage vetches can grow successfully in areas of 400 to 650mm of annual rainfall. Grain from woolly pod vetch varieties CANNOT be used to feed any livestock.

Vetch is valued for its benefits to subsequent cereal and oilseed crops in the rotation; these benefits are usually greater than from other pulses, particularly in lower-rainfall areas. On sandy soils, vetches provide better soil protection than peas and better stubble retention.

DISEASE MANAGEMENT

A successful integrated disease management plan will include paddock rotation, good agronomy, selecting more resistant varieties, seed treatments, in-crop monitoring, fungicide applications and rotation of fungicide actives. The other important factor is the end use of a vetch crop (grain, hay, feed, manure, etc.) and it is important to factor this in when assessing the cost of disease management strategies.

Morava, Studenica$^{\Phi}$, Rasina$^{\Phi}$, Volga$^{\Phi}$ and Timok$^{\Phi}$ are resistant to rust and are the preferred varieties for grain in areas prone to rust infections. Disease management is critical when growing a vetch crop, regardless of the end-use, and where possible disease-resistant varieties should be planted as a preference. Care must be taken when growing rust-susceptible varieties as grazing or feeding hay/silage from rust-infected plants may induce abortions in pregnant livestock.

While it is usually not economically viable to use fungicides for rust on vetch, it may be necessary where rust-susceptible varieties are to be used as feed.

Ascochyta blight occurs in earlier stages of a vetch crop and can reduce grain and dry matter production. This disease is generally less severe than Botrytis grey mould (BGM), which can develop high levels of infestation in cool/wet growing seasons. In 2020, Agriculture Victoria conducted the first disease screening for BGM and Ascochyta blight in vetch for many years. The vetch resistance ratings were updated based on these screening results. Vetch is not part of the NVT ratings process, but the same approach was used in the vetch ratings as is used for NVT ratings in other pulse crops.

When selecting a vetch variety, growers also need to consider their individual farm and paddock situations and, most importantly, the intended end-use for the crop. Selections should be made using all of the available information.

COMMON VETCH (VICIA SATIVA) VARIETIES

STUDENICA$^{\Phi}$

Studenica$^{\Phi}$ is a new, white-flowering variety of common vetch that became commercially available for sowing in 2021. It has the earliest flowering and maturity of the common vetches, flowering in approximately 85 to 90 days. It is rust resistant but susceptible to BGM, like other common vetch varieties. Studenica$^{\Phi}$ has toxin/anti-nutritional (BCN) levels similar to Morava.

The advantage Studenica$^{\Phi}$ has over other varieties is its superior winter growth and vigour combined with good frost tolerance, which enables it to put on more bulk through the cold parts of winter and therefore providing fodder earlier in the season. It is particularly well suited to low-rainfall marginal cropping/mixed farming systems requiring early feed to fill the winter feed gap or late planting for spring fodder and hay. It offers a more reliable legume option in mixed enterprises in marginal cropping environments.

Studenica$^{\Phi}$ has grain yields comparable with Timok$^{\Phi}$ and Volga$^{\Phi}$ in most environments. Its early growth and vigour sets it apart, particularly in cold environments. It is a multipurpose variety – it can be used for grain, hay/silage, grazing or green/brown manure. It can be successfully grown in many Australian soil types, from non-wetting sand to heavy clay loam with pH 5.8 to 9.4, like other common vetch varieties.

Studenica$^{\Phi}$ was bred, developed and trialled by the SARDI National Vetch Breeding Program (NVBP) in conjunction with GRDC and SAGIT and it is available from S&W Seeds.

LANGUEDOC

Languedoc is an early flowering and maturing variety recommended for low-rainfall areas; however, it can lodge severely, making harvest difficult under certain conditions. Languedoc generally exceeds Blanchefleur's grain yield in areas with less than 350mm rainfall. Its hard seed content is generally around five to 10 per cent and it is highly susceptible to rust. Languedoc grains possess 1.0–1.6 per cent anti-nutritional compound (BCN).

BLANCHEFLEUR

Prior to the release of Morava, Blanchefleur was the preferred grain variety in areas above 350mm rainfall in SA. Blanchefleur has mid maturity, white flowers and reddish brown/mottled seed with orange cotyledons. It is very susceptible to rust.

It is well suited to medium to high-rainfall areas where rust is not a regular problem. Both vetch and lentil are on the prescribed grain list of the Australian Quarantine and Inspection Service due to the vetch–lentil substitution issue. This has meant export markets of orange cotyledon varieties such as Blanchefleur are limited to small bird seed markets in Europe and seed for grazing and green manure crops. Blanchefleur grains possess 0.9–1.6 per cent anti-nutritional BCN.

CUMMINS

Cummins is a mid to early maturing, white-flowering variety selected from Languedoc. It is well adapted to medium to low-rainfall areas where it generally yields higher than Blanchefleur. Cummins is susceptible to rust and moderately susceptible to Ascochyta blight. It possesses a similar percentage of BCN to Blanchefleur.

MORAVA

Morava is a rust-resistant, late-flowering vetch variety with 100 per cent soft seeds, developed in 1998 by the NVBP at SARDI. Grain yield is superior to other vetches in the high-rainfall areas and to Blanchefleur, Languedoc and Cummins in all other areas in the presence of rust. It is larger seeded and more resistant to shattering than other vetch varieties.

Its BCN levels are 0.65 per cent, which is 50 per cent lower than Blanchefleur and Languedoc. Morava produces higher herbage yields than all other common vetch varieties. It is later flowering and maturing than Blanchefleur and grain yield will be reduced in environments with dry finishes. Morava is susceptible to Ascochyta blight and very susceptible to BGM because it produces very high biomass in wet/cool zones.

Morava can be sourced from Barenbrug Australia.

RASINA[Φ]

Rasina[Φ] is a soft-seeded vetch developed in 2006 by the NVBP. Rasina[Φ] replaces Languedoc, Blanchefleur and Cummins in low to medium-rainfall areas for grain production. Rasina[Φ] is five to 10 days earlier than Blanchefleur and 10 to 15 days earlier than Morava. Rasina[Φ] has a significant advantage over Languedoc, Blanchefleur and Cummins in its resistance to rust and it is slightly more tolerant to Ascochyta blight and BGM.

Rasina[Φ] is not expected to replace Morava in higher-rainfall districts or for hay production. The level of anti-nutritional factors in Rasina[Φ] is between 0.6 per cent and 0.8 per cent compared with 0.9 per cent to 1.6 per cent in Blanchefleur and Languedoc, respectively. Rasina[Φ] possesses a distinctive uniform dark-brown speckled seed coat with dark beige cotyledons.

Rasina[Φ] can be sourced from Barenbrug Australia.

VOLGA[Φ]

Volga[Φ] was developed in 2012 by the NVBP at SARDI. It is a high-yielding grain/seed variety for low and mid-rainfall areas. It is particularly suited to shorter-season areas where the growing season finishes sharply; dry periods in September and October are common in many low to mid-rainfall areas.

Volga[Φ] has good initial establishment, is rust resistant, and earlier flowering and maturing than Blanchefleur and Rasina[Φ]. It will improve the reliability and economic production of vetch in crop rotations, especially in low and mid-rainfall areas of 330 to 380mm a year.

Volga[Φ] has high grain and herbage yields and is well adapted to all areas where vetch is currently grown. Its early flowering and maturity characteristics make it well suited to situations where the season finishes sharply.

It can be successfully grown in many Australian soil types, from non-wetting sand to heavy clay loam with pH 5.8 to 9.4, like other common vetch varieties. Volga[Φ] is moderately susceptible to Ascochyta blight, whereas Morava is susceptible. The early maturity of Volga[Φ] may limit yield potential relative to longer growing season varieties, such as Morava, in high-rainfall areas.

Toxin levels in grain are around 0.54 per cent, lower than Morava at 0.65 per cent and Blanchefleur at 0.95 per cent. Seed size is very similar to Morava (100 seed weight, 7.82g).

Volga[Φ] can be sourced from Barenbrug Australia.

TIMOK[Φ]

Timok[Φ] was bred to complement Morava in mid to high-rainfall areas for grain/seed and especially for hay/silage production. Timok[Φ] yielded more grain than Rasina[Φ], Morava and Blanchefleur – by 9 per cent, 18 per cent and 21 per cent, respectively – over five years at five sites in SA.

Timok[Φ] has better initial establishment than Morava and will improve the reliability and economics of vetch production in crop rotations, especially in mid and high-rainfall areas, 350 to 450mm a year. Morava will remain the preferred variety for hay/silage in rainfall areas with greater than 450mm a year.

Timok[Φ] is high-yielding, highly rust resistant, and susceptible to Ascochyta blight and BGM. It has good early establishment and is soft-seeded. Timok[Φ] matures between Rasina[Φ] and Morava (approximately 105 days from seeding to full flowering).

Timok[Φ] is very well adapted for grain production in rainfall areas greater than 380mm a year, and dry matter production is similar to Morava in high-rainfall regions (greater than 400mm a year). In low to medium-rainfall regions (330 to 380mm a year), dry matter production in Timok[Φ] is 19 per cent higher than Morava. Timok[Φ] is a multipurpose variety – it can be used for grain, hay/silage, grazing or green/brown manure.

Toxin levels in Timok[Φ] grain are around 0.57 per cent. Seed weight is 6.88g per 100 seeds, similar to Rasina[Φ] at 6.92g per 100 seeds. Timok[Φ] was developed in 2012 by the NVBP at SARDI. It can be sourced from S&W Seeds.

HERBICIDE TOLERANCE

There are no differences between common vetch varieties to registered herbicides for control of broadleaf weeds and no differences between varieties to registered herbicides for grass weed control.

PURPLE VETCH

POPANY

Popany is a purple vetch (*Vicia benghalensis*) variety. Grain yield is significantly lower than for common vetch. Seeds are smaller than common vetch seed, therefore the seeding rates are lower at approximately 30 to 35 kilograms per hectare.

Grain from this variety can be used as a bird feed in mixtures with other recommended grains. Popany is a late-maturing variety, requiring more than 125 days from seeding to podding. It is a good variety in mid to high-rainfall areas for hay/silage. Popany possesses five to 10 per cent hard seeds. This variety is resistant to rust but susceptible to Ascochyta blight and chocolate spot. It has a black seed coat with distinctive white hilum.

WOOLLY POD VETCH

CAPELLO AND HAYMAKER

These woolly pod vetches (*Vicia villosa* subsp. *dasycarpa*) are lower in grain yield compared with common vetches but are much higher in dry matter production in rainfall areas greater than 450mm a year. Grain from these varieties CANNOT be used to feed any livestock.

Also, these varieties can only be grazed from the 10-node stage to podding stage. It is not recommended that grazing occur earlier or once plants begin to develop seeds in pods. These two varieties are very good for hay/silage production in areas with higher than 400mm of annual rainfall.

Haymaker and Capello are selected soft-seed varieties from Namoi. In the past few years, these two varieties have become prone to setting hard (dormant) seeds. Both varieties are owned by Barenbrug Australia.

RM4$^{\Phi}$

RM4$^{\Phi}$ (*Vicia villosa* subsp. *eriocarpa*) was selected by NVBP at SARDI. It is a high producer of dry matter, has very good early establishment, is moderately resistant to Ascochyta blight, and is susceptible to BGM. It is soft seeded (greater than 94 per cent), emerges in 15 to 20 days and is earlier in maturity by 10 to 15 days than Haymaker or Capello.

RM4$^{\Phi}$ is significantly higher in dry matter production in mid to low-rainfall areas (less than 380mm a year) than Haymaker or Capello. RM4$^{\Phi}$ is also suitable for higher-rainfall areas (400 to 650mm a year).

It is a multipurpose variety that can be used for hay/silage, grazing, green/brown manure or for seed. It can be successfully grown, like other woolly pod varieties, in many Australian soil types. Like other vetches, it is excellent for soil fertility/structure and nitrogen fixation. It can be grazed from 10 nodes up to the end of flowering and can be used for hay/silage production where cutting in full flowering provides the best balance of feed value. RM4$^{\Phi}$ performs better in grain production than other woolly pod varieties when the season finishes sharply.

RM4$^{\Phi}$ is not sensitive to any herbicides registered for use in woolly pod vetch varieties. It is susceptible in early growth stages to redlegged earth mite and lucerne flea, like other woolly pod vetch varieties. RM4$^{\Phi}$ is also susceptible to blue-green and cowpea aphids from early growth through to pod maturity, as well as to native budworm during pod formation and filling.

Grain from this variety, like other woolly pod vetches, CANNOT be used to feed any livestock. RM4$^{\Phi}$ can be sourced from Barenbrug Australia.

Table 1: Agronomic characteristics and disease ratings[2] of vetch varieties.

Variety	Maturity	Yield potential		Flower colour	% of pod shattering	% of hard seeds	Rust[1]	Ascochyta[2]	Botrytis[2]
		Grain	Dry matter						
COMMON VETCH									
Blanchefleur	Mid	High	Moderate	White	5–10	5–10	VS	MS	S
Morava	Late	High	High	Purple	0	0	R	MS (P)	VS (P)
Rasina[Ф]	Early–mid	High	Moderate	Purple	0–2	0	R	S (P)	S (P)
Studenica[Ф]	Very early	High	High	White	0–2	0	R	MR (P)	S (P)
Timok[Ф]	Mid	High	Very high	Purple	0–2	0–2	R	S (P)	S (P)
Volga[Ф]	Early	Very high	High	Purple	0–2	2–5	R	MRMS (P)	S (P)
PURPLE VETCH									
Popany	Very late	Low	High	Purple	20–30	5–10	R	MR (P)	S (P)
WOOLLY POD VETCH									
Capello	Late	Low	Very high	Purple	5–10	15–20	R	MR (P)	S (P)
Haymaker	Late	Low	Very high	Purple	5–10	20–30	R	S	VS
RM4[Ф]	Mid	Moderate	Very high	Purple	2–5	2–5	R	MR (P)	S (P)

Source: Stuart Nagel, SARDI, Agriculture Victoria Pulse Disease Guide (2022)

[1] Indicates breeding company data.

[2] Vetch is not included in the NVT; Ascochyta and Botrytis grey mould ratings are from Agriculture Victoria in 2020.

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

– denotes no rating available. (P) = provisional ratings – treat with caution.

Table 2: Grain and dry matter yield for common vetch varieties.

This table has been compiled from independent trials with a five-year average over five different trial sites in South Australia.

Variety	Grain yield (t/ha)	% of Volga[Ф]	Dry matter yield (t/ha)	% of Morava®
Studenica[Ф]	1.66	86	4.73	92
Rasina[Ф]	1.79	92	–	–
Morava	1.59	82	5.14	100
Volga[Ф]	1.94	100	4.82	94
Timok[Ф]	1.93	100	4.92	96
Mean yield	1.78		4.90	

Source: Stuart Nagel, SARDI

– denotes no data available.

Table 3: Dry matter yield for woolly pod and purple vetch varieties.

This table has been compiled from independent trials with a five-year average over five different trial sites in South Australia.

Variety	Dry matter yield (t/ha)	% of Capello
WOOLLY POD VETCH		
Cappello	5.7	100
RM4[Ф]	5.9	104
Mean yield	5.8	
PURPLE VETCH		
Popany	5.28 (2009–12)	85

Source: Stuart Nagel, SARDI

– denotes no data available.

Table 4: Hay yields of common vetch varieties from low-rainfall cropping environments.

Data compiled from independent trials over three years at four different sites in South Australia.

Variety	Hay yield (t/ha)			
	2014	2015	2016	3-year avg.
Studenica(Φ)	2.24	3.09	2.19	2.51
Rasina(Φ)	–	2.86	2.21	2.54
Timok(Φ)	2.13	3.15	2.08	2.45
Volga(Φ)	2.26	3.06	2.45	2.59

Source: Stuart Nagel, SARDI

– denotes no data available.

Table 5. Plant density and recommended seeding rates for vetch.

End use	Common vetch		Woolly pod vetch		Purple vetch	
	Plant density (plants per sq.m.)	Sowing rate (kg/ha)	Plant density (plants per sq.m.)	Sowing rate (kg/ha)	Plant density (plants per sq.m.)	Sowing rate (kg/ha)
Grain	40–60	40–50	40–50	25–40	40–50	25–40
Hay/silage	50–70	50–60	50–60	30–45	50–60	30–45
Grazing	50–70	50–60	50–60	30–45	50–60	30–45
Green manure	60–70	55–65	60–70	45–50	50–60	30–45

Source: Stuart Nagel, SARDI

NOTES

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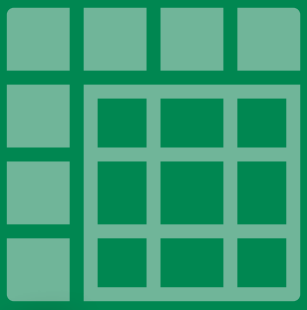

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