Mallee South Australia and Victoria

May 2025

GRDC NATIONAL VARIETY TRIALS™

CELEBRATING 20 YEARS

NVT HARVEST REPORT

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NVT Harvest Report – Mallee South Australia and Victoria

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

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Download this guide at:
nvt.grdc.com.au/harvest-reports

LEGEND: MEAN VARIETY YIELD PERFORMANCE

HIGH **LOW**

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

LEGEND: DISEASE RATING COLOUR RANGE

R	RMR	MR	MRMS	MS	MSS	S	SVS	VS

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

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

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

INTRODUCTION

The NVT Harvest Report – Mallee South Australia and Victoria provides information to support growers and advisers with decisions on variety selection for **Mallee South Australia and Victoria**. The information has been generated from the Grains Research and Development Corporation's (GRDC) National Variety Trials (NVT) database. This publication provides a summary of the 2024 and long-term yield performance of varieties of crop species suitable for production in **Mallee South Australia and Victoria** together with their quality and disease responses.

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

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

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

Interpreting long-term yield results

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

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

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

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

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

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

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

NVT 20th anniversary

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

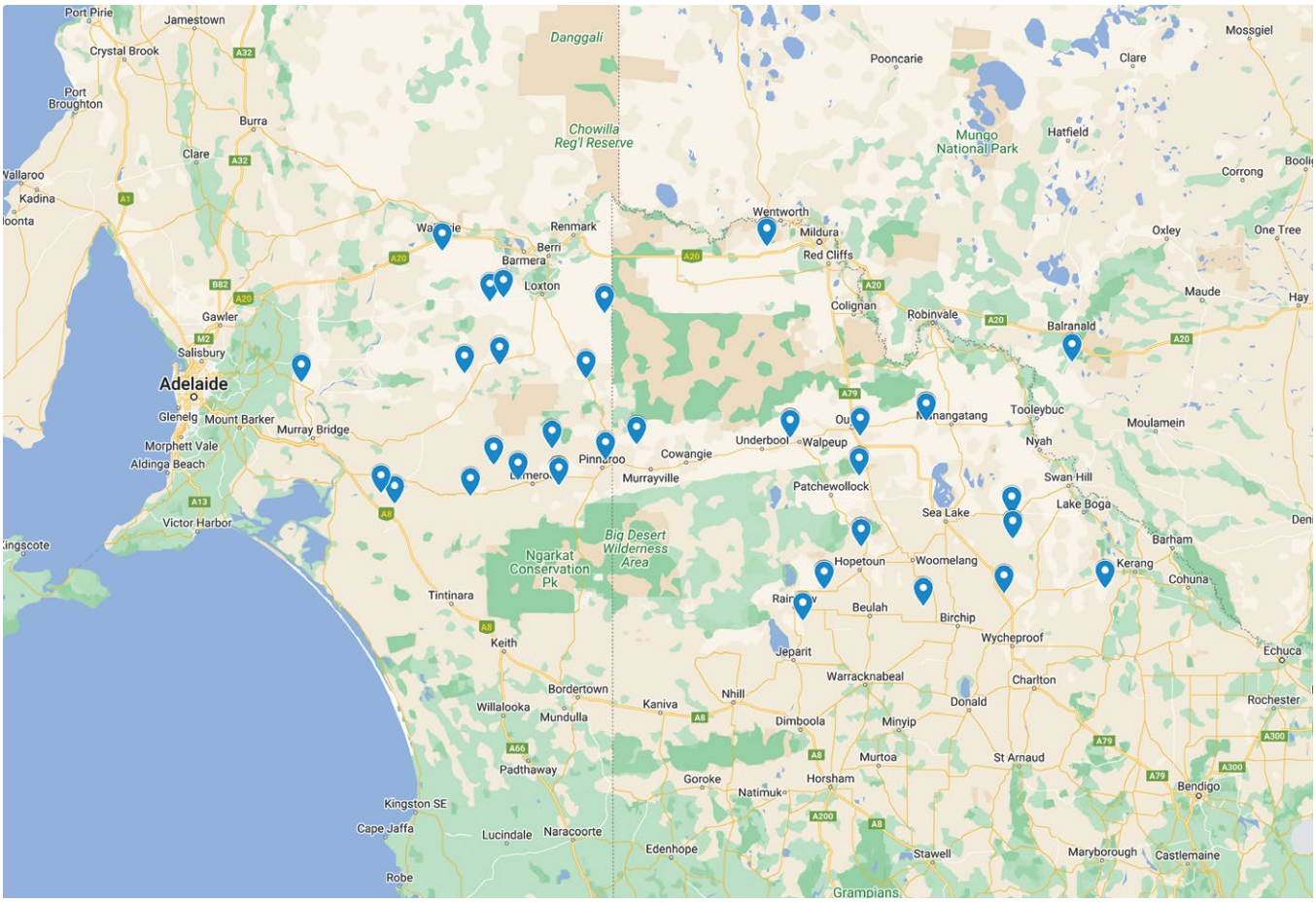
Established in 2005 by the Grains Research and Development Corporation (GRDC), the NVT program has evolved into the largest coordinated variety trial network in the world. Each year, more than 640 trials are conducted across over 300 locations nationwide, encompassing 10 different crop species. Over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

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

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

NVT SITE LOCATIONS – Mallee South Australia and Victoria

Figure 1: Locality of NVT trial sites in Mallee South Australia and Victoria from 2020 to 2024.



SOURCE: National Variety Trials

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

WHEAT

New wheat varieties

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

Variety	Breeding company	Grain classification – southern zone	End point royalty* ($)	Comments supplied by breeding company[1]
Brighton[Φ]	Australian Grain Technologies Pty Ltd	TBC	4.10	Brighton[Φ] is a dual-purpose winter wheat suitable for grazing and grain production. It is a higher-yielding alternative to Illabo[Φ] and slightly quicker than Illabo[Φ]. It has improved test weight compared with Illabo[Φ]. **Maturity description:** quick winter
LRPB Major[Φ]	LongReach Plant Breeders Pty Ltd	AH	4.00	LRBP Major[Φ] is suitable for early to mid-May seeding opportunities throughout southern NSW. It has strong yield performance in both acidic and sodic soil yield trials. Marketed by Pacific Seeds. **Maturity description:** mid-slow spring
Mammoth[Φ]	InterGrain Pty Ltd	APW	3.50	Mammoth[Φ]'s unique phenology makes it an excellent option for an early break scenario, from late March to mid-April. Unlike winter wheats that have similar maturity, Mammoth[Φ] does not have the same vernalisation requirement, allowing it to continue to develop using day length rather than needing low temperature to trigger flowering like winter varieties typically need. This attribute is advantageous in both high and low-rainfall regions as it allows Mammoth[Φ] to respond to seasonal conditions and minimise frost risk. Mammoth[Φ] is well suited to WA and SA and some areas in Victoria. **Maturity description:** very slow spring
RGT Ponsford[Φ]	RAGT	TBC	4.00	Variety description not supplied.
Shotgun[Φ]	Australian Grain Technologies Pty Ltd	AH	3.90	Shotgun[Φ] is a Scepter[Φ] replacement with a significant yield advantage. It is agronomically very similar to Scepter[Φ]. **Maturity description:** mid spring
Wallaroo[Φ]	Trigall Australia	TBC	4.00	Variety description not supplied.

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

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

Wheat variety yield performance – Mallee South Australia and Victoria

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

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

Table 1: Balranald main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	2.32	1.51	4.66	5.14	1.86
Shotgun[Ф]					110	110
Brumby[Ф]	APW		106	108	109	112
Calibre[Ф]	AH	108	111	105	107	115
Tomahawk CL Plus[Ф]	APW			109	108	113
RockStar[Ф]	AH	106	111	108	107	108
Sunmaster[Ф]	APH		99	110	110	104
Ballista[Ф]	AH	107	108	107	106	109
Sunblade CL Plus[Ф]	AH	106	106	107	107	106
RGT Ponsford[Ф]			102	109	106	104
LRPB Matador[Ф]	AH			105	104	110
Scepter[Ф]	AH	104	101	103	105	110
Cutlass[Ф]	APW	102	103	106	106	99
Vixen[Ф]	AH	105	104	103	102	110
Boree[Ф]	AH	104	105	103	103	107
Genie[Ф]	AH				101	100
Sowing date		**12 May**	**25 May**	**18 May**	**9 May**	**20 May**
Rainfall J–M (mm)		**41**	**53**	**66**	**48**	**104**
Rainfall A–O (mm)		**257**	**161**	**469**	**198**	**165**

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

Table 2: Birchip main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	5.42	2.53	4.27	4.73	4.05
Shotgun[Ф]					114	110
Calibre[Ф]	AH	110	117	106	108	107
Ballista[Ф]	AH	108	116	111	107	105
Tomahawk CL Plus[Ф]	APW			99	112	108
Brumby[Ф]	APW		106	101	110	108
RockStar[Ф]	AH	110	107	102	107	108
Sunblade CL Plus[Ф]	AH	104	108	113	106	103
LRPB Matador[Ф]	AH			97	106	107
Sunmaster[Ф]	APH		102	117	109	102
Vixen[Ф]	AH	108	115	101	105	105
RGT Ponsford[Ф]			101	98	107	107
Scepter[Ф]	AH	106	107	99	107	105
Beckom[Ф]	AH	101	108	113	103	99
Boree[Ф]	AH	107	106	97	104	105
Genie[Ф]	AH				99	102
Sowing date		**14 May**	**10 May**	**9 May**	**8 May**	**12 May**
Rainfall J–M (mm)		**101**	**25**	**60**	**23**	**69**
Rainfall A–O (mm)		**205**	**172**	**384**	**118**	**146**

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

Table 3: Geranium main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	3.66	1.66	2.50	2.90	1.55
Shotgun[Ф]					118	105
Tomahawk CL Plus[Ф]	APW			104	113	111
Calibre[Ф]	AH	114	110	104	108	117
Ballista[Ф]	AH	113	106	109	109	108
Vixen[Ф]	AH	119	106	103	107	107
LRPB Matador[Ф]	AH				106	110
Brumby[Ф]	APW		106	103	108	118
Scepter[Ф]	AH	110	104	100	107	110
RockStar[Ф]	AH	103	107	107	104	114
Sunblade CL Plus[Ф]	AH	102	104	109	107	108
Dozer[Ф] CL Plus	APW		103		102	101
Boree[Ф]	AH	107	105	100	103	109
Soaker[Ф]	APW				106	104
Sunmaster[Ф]	APH		99	111	111	106
Genie[Ф]	AH				99	102
Sowing date		**11 May**	**2 Jun**	**17 May**	**10 May**	**5 Jun**
Rainfall J–M (mm)		**56**	**57**	**29**	**53**	**48**
Rainfall A–O (mm)		**224**	**186**	**344**	**252**	**133**

Special thanks to 2024 trial cooperator, David Slade/Binnumbrook Pty Ltd.
Learn more via the NVT Long Term Yield Reporter

Table 4: Hopetoun main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	4.64	2.94	5.79	4.30	
Shotgun[Ф]					111	
Ballista[Ф]	AH	108	111	109	105	
Tomahawk CL Plus[Ф]	APW			104	110	
Calibre[Ф]	AH	110	113	104	107	
RockStar[Ф]	AH	109	109	106	107	
LRPB Matador[Ф]	AH			100	110	
Vixen[Ф]	AH	108	112	101	108	
RGT Ponsford[Ф]			105	106	107	
Brumby[Ф]	APW		107	104	106	
Sunblade CL Plus[Ф]	AH	105	105	112	99	
Dozer[Ф] CL Plus	APW		108		108	
Genie[Ф]	AH				102	
Sunmaster[Ф]	APH		98	117	95	
Boree[Ф]	AH	106	107	99	106	
Scepter[Ф]	AH	106	106	100	105	
Sowing date		**13 May**	**13 May**	**16 May**	**15 May**	**30 May**
Rainfall J–M (mm)		**87**	**31**	**43**	**30**	**78**
Rainfall A–O (mm)		**225**	**168**	**360**	**161**	**100**

Compromised trial

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

Table 5: Manangatang main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	2.62	2.43	5.21	2.58	1.57
Shotgun®					114	101
Calibre®	AH	112	119	104	114	111
Ballista®	AH	109	116	108	109	107
Tomahawk CL Plus®	APW			104	114	103
Sunblade CL Plus®	AH	104	108	109	105	110
RockStar®	AH	105	109	104	113	109
Brumby®	APW		106	103	113	111
Vixen®	AH	110	115	102	109	101
LRPB Matador®	AH			101	113	102
Sunmaster®	APH		98	112	102	111
Scepter®	AH	108	106	101	109	105
Genie®	AH				104	103
Boree®	AH	106	106	100	109	103
Beckom®	AH	102	104	109	98	100
RGT Ponsford®			98	103	110	103
Sowing date		**12 May**	**25 May**	**17 May**	**8 May**	**16 May**
Rainfall J–M (mm)		**48**	**48**	**41**	**25**	**110**
Rainfall A–O (mm)		**227**	**150**	**462**	**144**	**101**

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

Table 6: Merrinee main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	2.35	1.52	3.30	4.51	2.02
Shotgun®					111	110
Calibre®	AH	108	115	108	109	114
Brumby®	APW		107	107	112	112
RockStar®	AH	106	109	111	111	107
Tomahawk CL Plus®	APW			105	110	114
LRPB Matador®	AH			106	108	110
Ballista®	AH	106	110	107	106	108
RGT Ponsford®			102	108	110	104
Vixen®	AH	105	111	104	104	109
Boree®	AH	104	107	104	106	107
Scepter®	AH	105	105	102	106	110
Catapult®	AH	104	106	104	106	106
Sunblade CL Plus®	AH	104	104	106	105	105
Dozer® CL Plus	APW		107		104	101
Sunmaster®	APH		95	104	107	105
Sowing date		**12 May**	**25 May**	**10 May**	**9 May**	**30 May**
Rainfall J–M (mm)		**49**	**55**	**86**	**19**	**70**
Rainfall A–O (mm)		**235**	**128**	**317**	**148**	**104**

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

Table 7: Nangari main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	3.14	1.30	4.15	2.49	
Shotgun®					118	Compromised trial
Calibre®	AH	111	107	107	113	
Tomahawk CL Plus®	APW			104	118	
Ballista®	AH	108	104	109	111	
Vixen®	AH	109	107	105	112	
LRPB Matador®	AH				109	
RockStar®	AH	110	104	108	100	
Brumby®	APW		105	104	108	
Sunblade CL Plus®	AH	103	100	108	107	
Scepter®	AH	106	105	101	111	
Dozer® CL Plus	APW		104		100	
Boree®	AH	107	105	102	104	
Sunmaster®	APH		97	107	109	
Genie®	AH				94	
Soaker®	APW				108	
Sowing date		**5 May**	**28 May**	**7 May**	**29 May**	**12 Jun**
Rainfall J–M (mm)		**55**	**41**	**34**	**37**	**66**
Rainfall A–O (mm)		**212**	**139**	**386**	**120**	**121**

Special thanks to 2024 trial cooperator, CH and KA Scholz.
Learn more via the NVT Long Term Yield Reporter

Table 8: Palmer main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	2.26	2.13	2.91	2.72	1.93
Shotgun®					114	102
Calibre®	AH	111	113	111	106	101
Ballista®	AH	110	110	111	104	105
Vixen®	AH	104	112	111	109	97
Tomahawk CL Plus®	APW			102	118	91
RockStar®	AH	109	104	109	99	104
Sunblade CL Plus®	AH	112	102	103	100	108
Brumby®	APW		102	102	107	99
Dozer® CL Plus	APW		106		103	98
Scepter®	AH	107	104	101	110	95
Reilly®	AH			110	95	107
Boree®	AH	104	105	105	104	97
Razor CL Plus®	ASW	100	109	98	108	95
Sunmaster®	APH		92	92	103	109
Catapult®	AH	102	103	103	101	96
Sowing date		**4 May**	**8 Jun**	**9 May**	**16 May**	**21 Jun**
Rainfall J–M (mm)		**32**	**51**	**55**	**42**	**30**
Rainfall A–O (mm)		**222**	**285**	**316**	**175**	**177**

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

Table 9: Pinnaroo main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	4.26	0.91	3.84	2.63	
Shotgun(b)					118	
Tomahawk CL Plus(b)	APW			106	118	
Ballista(b)	AH	109	121	113	109	
Calibre(b)	AH	111	120	108	111	
Vixen(b)	AH	108	125	108	113	
LRPB Matador(b)	AH				111	
Sunblade CL Plus(b)	AH	106	107	109	103	
Scepter(b)	AH	106	112	102	110	
Dozer(b) CL Plus	APW		115		104	
Brumby(b)	APW		106	101	106	
RockStar(b)	AH	111	106	103	100	
Sunmaster(b)	APH		99	108	102	
Boree(b)	AH	107	108	100	105	
Reilly(b)	AH			110	101	
Genie(b)	AH				95	
Sowing date		**5 May**	**2 Jun**	**10 May**	**31 May**	**11 Jun**
Rainfall J–M (mm)		**85**	**32**	**61**	**25**	**56**
Rainfall A–O (mm)		**236**	**184**	**363**	**218**	**131**

Compromised trial

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

Table 10: Quambatook main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	3.16	3.89	4.71	5.56	5.28
Shotgun(b)					114	109
Tomahawk CL Plus(b)	APW			97	111	107
Ballista(b)	AH	109	112	109	105	106
Calibre(b)	AH	111	114	101	107	108
LRPB Matador(b)	AH			95	110	107
Vixen(b)	AH	112	116	98	107	105
RockStar(b)	AH	106	104	104	109	107
Brumby(b)	APW		106	100	108	107
RGT Ponsford(b)			103	102	109	105
Dozer(b) CL Plus	APW		108		108	104
Sunblade CL Plus(b)	AH	102	103	113	102	104
Scepter(b)	AH	107	110	97	106	105
Beckom(b)	AH	103	106	114	100	100
Sunmaster(b)	APH		99	119	100	102
Boree(b)	AH	106	107	96	106	105
Sowing date		**13 May**	**6 May**	**17 May**	**8 May**	**13 May**
Rainfall J–M (mm)		**77**	**57**	**82**	**62**	**104**
Rainfall A–O (mm)		**222**	**171**	**404**	**210**	**180**

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

Table 11: Ultima main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	2.30	1.47	5.54	2.59	
Shotgun(b)					118	
Ballista(b)	AH	111	113	111	111	
Beckom(b)	AH	106	104	113	104	
Calibre(b)	AH	112	114	104	112	
Sunblade CL Plus(b)	AH	105	108	111	106	
Genie(b)	AH				106	
Sunmaster(b)	APH		101	112	104	
Vixen(b)	AH	113	110	103	109	
LRPB Scout(b)	AH	98	110	112	101	
Tomahawk CL Plus(b)	APW			101	111	
RockStar(b)	AH	103	110	105	110	
Reilly(b)	AH	101	109	109	102	
LRPB Matador(b)	AH			100	110	
Dozer(b) CL Plus	APW		106		107	
RGT Ponsford(b)			102	103	107	
Sowing date		**11 May**	**11 May**	**11 May**	**11 May**	**14 May**
Rainfall J–M (mm)		**47**	**29**	**63**	**34**	**84**
Rainfall A–O (mm)		**233**	**199**	**453**	**209**	**166**

Compromised trial

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

Table 12: Walpeup main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	4.18	2.38	4.30	4.93	
Shotgun(b)					113	
Tomahawk CL Plus(b)	APW			105	110	
Sunmaster(b)	APH		101	113	111	
Ballista(b)	AH	107	111	110	105	
Calibre(b)	AH	109	114	105	104	
Sunblade CL Plus(b)	AH	105	105	110	106	
Brumby(b)	APW		110	102	106	
Beckom(b)	AH	101	102	112	106	
Vixen(b)	AH	106	111	104	103	
LRPB Matador(b)	AH			101	103	
Scepter(b)	AH	106	108	101	105	
RockStar(b)	AH	107	110	102	102	
RGT Ponsford(b)			106	102	104	
Soaker(b)	APW				105	
Boree(b)	AH	105	107	99	101	
Sowing date		**11 May**	**25 May**	**14 May**	**11 May**	**16 May**
Rainfall J–M (mm)		**85**	**54**	**86**	**55**	**56**
Rainfall A–O (mm)		**247**	**189**	**444**	**228**	**137**

Trial failed

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

Table 13: Wanbi main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	2.89			2.48	
Shotgun(Ф)			Trial failed	Compromised trial	118	Trial failed
Tomahawk CL Plus(Ф)	APW				117	
Calibre(Ф)	AH	109			113	
Brumby(Ф)	APW				110	
RockStar(Ф)	AH	111			107	
LRPB Matador(Ф)	AH				112	
Ballista(Ф)	AH	106			109	
Scepter(Ф)	AH	105			110	
Vixen(Ф)	AH	102			112	
Boree(Ф)	AH	105			107	
Sunblade CL Plus(Ф)	AH	107			104	
Sunmaster(Ф)	APH				101	
Catapult(Ф)	AH	105			105	
Soaker(Ф)	APW				108	
Dozer(Ф) CL Plus	APW				106	
Sowing date		**5 May**	**25 May**	**16 May**	**30 May**	**4 Jun**
Rainfall J–M (mm)		**110**	**19**	**47**	**21**	**23**
Rainfall A–O (mm)		**237**	**139**	**332**	**159**	**103**

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

Table 14: Wunkar main season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	2.28		3.32	1.71	
RockStar(Ф)	AH	110	Trial failed	109	106	Compromised trial
Shotgun(Ф)					119	
Sunblade CL Plus(Ф)	AH	108		109	105	
Sunmaster(Ф)	APH			111	101	
Calibre(Ф)	AH	109		102	116	
Brumby(Ф)	APW			104	110	
Ballista(Ф)	AH	107		103	113	
Cutlass(Ф)	APW	106		113	94	
Genie(Ф)	AH				101	
LRPB Major(Ф)	AH				100	
LRPB Matador(Ф)	AH				113	
Boree(Ф)	AH	104		100	107	
Catapult(Ф)	AH	104		101	104	
Tomahawk CL Plus(Ф)	APW			94	117	
Scepter(Ф)	AH	104		97	111	
Sowing date		**6 May**	**28 May**	**26 May**	**30 May**	**13 Jun**
Rainfall J–M (mm)		**70**	**22**	**51**	**31**	**36**
Rainfall A–O (mm)		**187**	**137**	**409**	**119**	**144**

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

Table 15: Birchip early season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	5.39	3.84	4.56	5.85	4.93
RockStar(Ф)	AH	109	111	99	109	112
LRPB Major(Ф)	AH				107	108
Genie(Ф)	AH				107	110
Denison(Ф)	APW	106	108	96	107	111
Mowhawk(Ф)	APW			101		109
LRPB Beaufort(Ф)	FEED	104	105	114	103	100
Brumby(Ф)	APW				106	110
Wallaroo(Ф)					103	103
Catapult(Ф)	AH	104	106	93	105	108
Coota(Ф)	AH	103	105	91	104	107
Stockade(Ф)	APW			116		95
Valiant(Ф) CL Plus	AH					103
LRPB Dual(Ф)	AH					103
Brighton(Ф)					101	101
Cutlass(Ф)	APW	99	100	97	99	101
Sowing date		**22 Apr**	**16 Apr**	**19 Apr**	**18 Apr**	**19 Apr**
Rainfall J–M (mm)		**69**	**101**	**25**	**60**	**23**
Rainfall A–O (mm)		**146**	**205**	**172**	**384**	**118**
Irrigation A–O (mm)			**15**			**10**

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

Table 16: Pinnaroo early season wheat.

Year		2020	2021	2022	2023	2024
Mean yield (t/ha)	Class	3.86		3.04	4.34	
Mammoth(Ф)	APW		Trial failed		90	Trial failed
Wallaroo(Ф)				111	107	
DS Bennett(Ф)	ASW	116		117	88	
Genie(Ф)	AH				91	
Denison(Ф)	APW	108		102	105	
RockStar(Ф)	AH	120		106	90	
Brighton(Ф)					112	
Valiant(Ф) CL Plus	AH			105	102	
Illabo(Ф)	AH	101		96	103	
Brumby(Ф)	APW				93	
Catapult(Ф)	AH	102		98	97	
Cutlass(Ф)	APW	89		100	106	
LRPB Nighthawk(Ф)	APW	96		91	106	
Longsword(Ф)	AWW	84		85	118	
EG Titanium(Ф)	AH	95		97	92	
Sowing date		**15 Apr**	**19 Apr**	**19 Apr**	**13 Apr**	**18 Apr**
Rainfall J–M (mm)		**85**	**32**	**61**	**25**	**56**
Rainfall A–O (mm)		**236**	**184**	**363**	**218**	**131**
Irrigation A–O (mm)		**15**		**10**		**20**

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

Wheat variety quality – Mallee South Australia and Victoria

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

The following figures show the grain quality trends as histograms from 2023 and 2024 NVT averaged for trials in the Mallee South Australia and Victoria region. Only the varieties evaluated at every site are included. These are plotted in order of performance, up to a maximum of 20.

Protein and yield comparisons

Figure 1: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from 14 NVT sites in Mallee SA–Victoria in 2023.

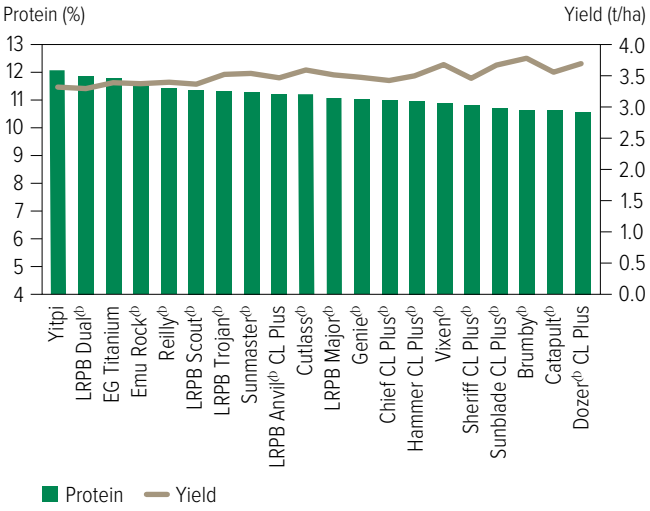


Figure 2: Protein (%) and yield (t/ha) comparisons for main season wheat varieties from seven NVT sites in Mallee SA–Victoria in 2024.

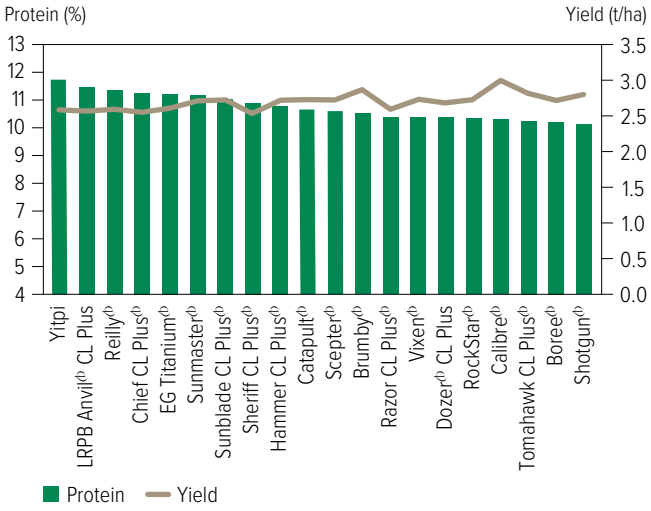


Figure 3: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from two NVT sites in Mallee SA–Victoria in 2023.

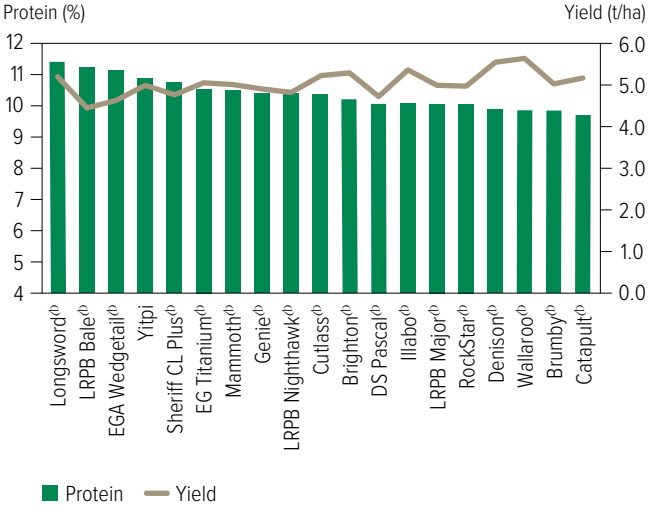
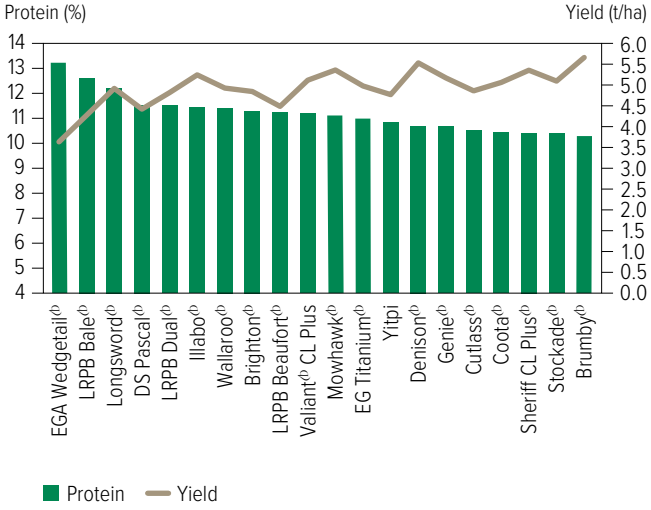


Figure 4: Protein (%) and yield (t/ha) comparisons for early season wheat varieties from one NVT site in Mallee SA–Victoria in 2024.



Test weight comparisons

Figure 5: Test weight (kg/hL) comparisons for main season wheat varieties from 14 NVT sites in Mallee SA–Victoria in 2023.

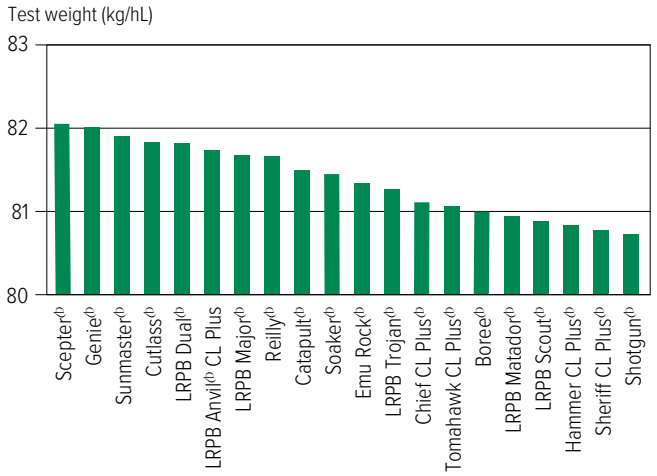


Figure 6: Test weight (kg/hL) comparisons for main season wheat varieties from seven NVT sites in Mallee SA–Victoria in 2024.

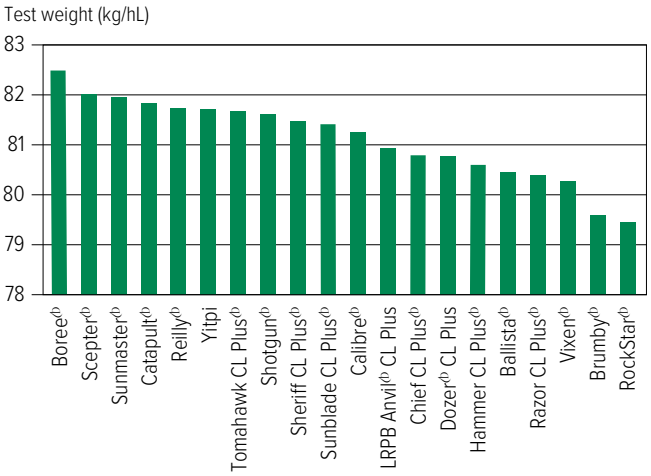


Figure 7: Test weight (kg/hL) comparisons for early season wheat varieties from two NVT sites in Mallee SA–Victoria in 2023.

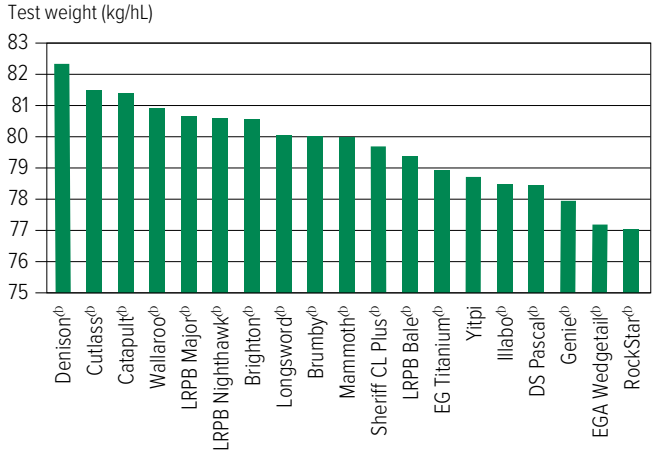
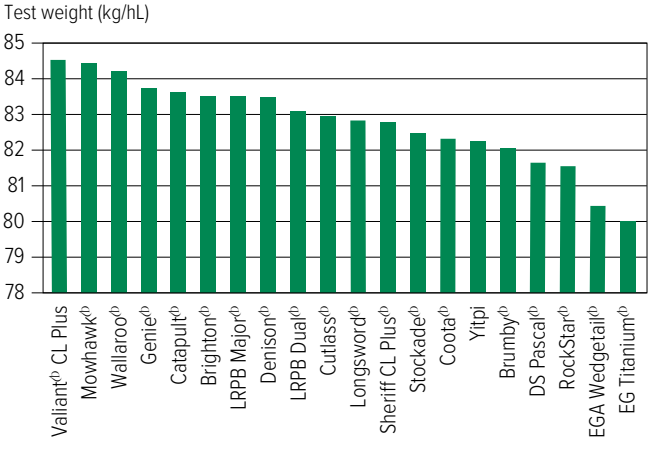


Figure 8: Test weight (kg/hL) comparisons for early season wheat varieties from one NVT site in Mallee SA–Victoria in 2024.



Screenings comparisons

Figure 9: Screenings (<2.0mm) comparisons for main season wheat varieties from 14 NVT sites in Mallee SA–Victoria in 2023.

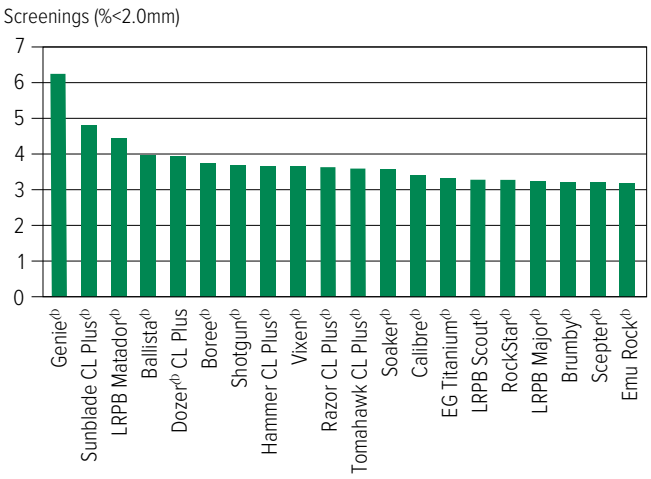


Figure 10: Screenings (<2.0mm) comparisons for main season wheat varieties from seven NVT sites in Mallee SA–Victoria in 2024.

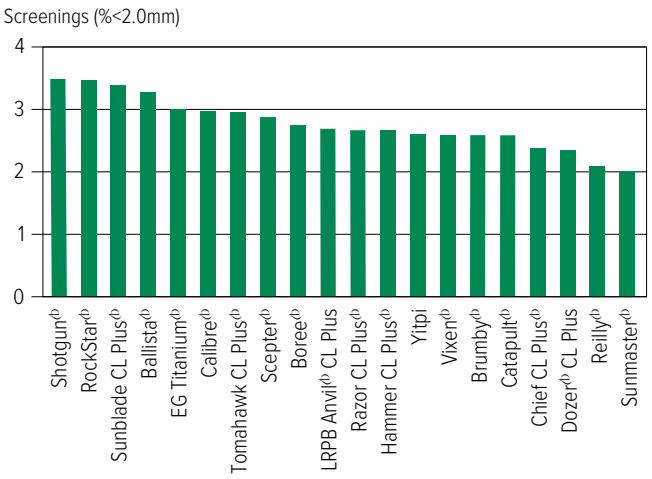


Figure 11: Screenings (<2.0mm) comparisons for early season wheat varieties from two NVT sites in Mallee SA–Victoria in 2023.

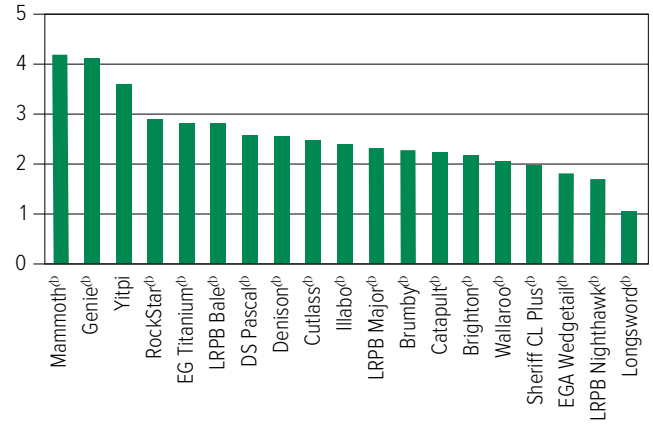
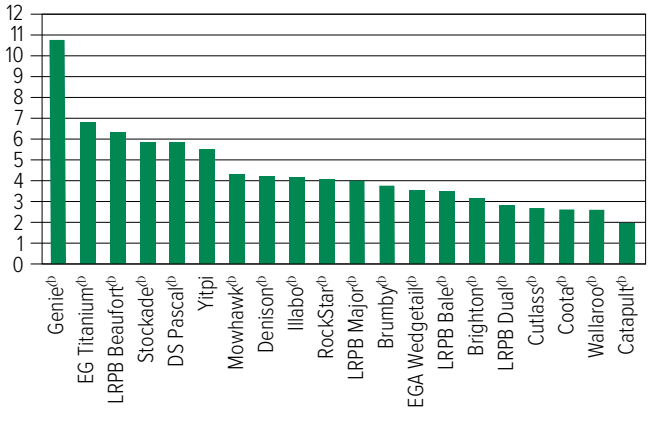


Figure 12: Screenings (<2.0mm) comparisons for early season wheat varieties from one NVT site in Mallee SA–Victoria in 2024.



Wheat variety disease ratings – South Australia and Victoria

The following tables contain varietal ratings for the predominant diseases of wheat in South Australia and Victoria. These ratings are updated annually by crop pathologists and were released in March 2025.

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

Table 17: Wheat disease guide for South Australia.

Variety	Stem rust	Stripe rust (east coast resistance)	Leaf rust	*Septoria tritici* blotch	Yellow leaf spot	Powdery mildew	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)	CCN	Eyespot	Crown rot	Black point
Anapurna	MSS	RMR	MS	MRMS	MRMS	RMR	MS	S (P)	MRMS		SVS	MSS
Ascot(Þ)	MRMS	MSS	RMR	S	MRMS	S	S	S	MR	S	S	S
Avoca(Þ)	MRMS	MRMS	MSS	MSS	MSS	MS	R (P)	MSS	S (P)	S (P)	MSS (P)	MRMS (P)
Ballista(Þ)	MR	MSS	S	SVS	MS	SVS	S	MRMS	MRMS	S	S	MS
Beckom(Þ)	MRMS	MRMS	MSS	S	MSS	S	S	MSS	R		S	MRMS
BigRed(Þ)	S	RMR	MRMS	MR	MR	RMR	MRMS	MS	S		MSS	MR
Boa(Þ)	MS	MRMS	MR	S	MRMS	S	S	VS	R (P)	S (P)	MSS (P)	S (P)
Boree(Þ)	MR	SVS	S	SVS	MRMS	SVS	S	MSS	MSS		S	S
Brighton(Þ)	MRMS	MRMS	S	S	MRMS	SVS	S	MS	R	MSS	S	MS
Brumby(Þ)	MR	MS	SVS	S	MRMS	MSS	MRMS	MS	MRMS	S	S	MSS
Calibre(Þ)	MR	S	S	S	MRMS	MSS	S	MSS	MRMS	S	S	MSS
Catapult(Þ)	MR	S	S	MSS	MRMS	S	S	MS	R	S	MSS	S
Chief CL Plus(Þ)	MR	SVS	MR	S	MRMS	SVS	MRMS	MSS	MS	MSS	MSS	MS
Coolah(Þ)	MR	MSS	RMR	MSS	MSS	MSS	S	MS	S		MSS	S
Coota(Þ)	RMR	S	MR	S	MSS	S	MR	MS	MR	S	MSS	MS
Cutlass(Þ)	R	MSS	RMR	MSS	MSS	MSS	MSS	MSS	MR		S	MS
Denison(Þ)	MS	S	S	MSS	MRMS	S	S	S	MS	S	MSS	MS
Devil(Þ)	S	SVS	SVS	SVS	MRMS	S	MSS	S	MSS	S	MSS	MSS
Dozer(Þ) CL Plus	MS	S	S	S	MRMS	S	MRMS	S	MS	SVS	S	MRMS
DS Bennett(Þ)	MS	S	SVS	MSS	MRMS	R	S	S	S		VS	MSS
DS Pascal(Þ)	MSS	MRMS	MRMS	MSS	MS	RMR	S	S	S		S	MS
EG Jet(Þ)	S	MRMS	MSS	MSS	MRMS	SVS	S	S	MRMS		S	MS
EG Titanium(Þ)	MS	MR	MS	MSS	MSS	S	MSS	MSS	R	S	MSS	MSS
EGA Wedgetail(Þ)	MRMS	MS	MSS	MSS	MSS	MSS (P)	S	VS	S		S	MS
Genie(Þ)	MRMS	MSS	S	S	MRMS (P)	SVS	MS (P)	MRMS	MSS (P)	S (P)	MS (P)	MS
Hammer CL Plus(Þ)	MR	MS	S	MSS	MRMS	S	MSS	S	MRMS	S	MSS	MRMS
Illabo(Þ)	MR	MRMS	S	MSS	MS	RMR	MSS	MSS	MRMS	S	S	MRMS
Ironbark(Þ)	MS	MR	MRMS	S	MSS	S	S	MR (P)	MS (P)	S (P)	MSS (P)	
Jillaroo(Þ)	MS	S	S	S	MS	SVS	S	MS (P)	MS	S	S	MS
Kingston(Þ)	S	MSS	S	S	MSS	S	S	MR	R	S	S	MSS
Lancelin(Þ)	MRMS	MSS	MSS	SVS	MRMS	S	SVS	MS	MRMS	S	S	MSS (P)
Longford(Þ)	RMR	RMR	RMR	MRMS/S	MRMS	RMR	S	S	MS	MSS (P)	MSS	MRMS
Longsword(Þ)	MR	MRMS/MS	MSS	MS	MRMS	S	MRMS	MRMS	MRMS	S	MSS	MS
LRPB Anvil(Þ) CL Plus	MR	S	SVS	VS	MSS	SVS	MSS	S	MS	S	MSS	S
LRPB Avenger(Þ)	MS	S	SVS	S	MS	SVS	MSS	MRMS	MRMS	S	S	MRMS
LRPB Bale(Þ)	MRMS	MRMS	MSS	MSS	SVS	MRMS	S	S	R	S	S	MS
LRPB Beaufort(Þ)	SVS	RMR	MSS	S	MRMS	R (P)	MS	MSS	MS		S	MRMS

Continued on next page

Table 17: Wheat disease guide for South Australia (continued).

Variety	Stem rust	Stripe rust (east coast resistance)	Leaf rust	*Septoria tritici* blotch	Yellow leaf spot	Powdery mildew	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)	CCN	Eyespot	Crown rot	Black point
LRPB Dual(Ф)	MRMS	MS	MSS	MSS	S	S	MSS	MSS	R	S	S	S
LRPB Impala(Ф)	MR	MRMS	SVS	SVS	MSS	MR	SVS	S	MSS		MSS	MS
LRPB Kittyhawk(Ф)	MRMS	MR	MR	MRMS	MRMS	MS	S	S	S	S	SVS	MRMS
LRPB Major(Ф)	MRMS	MRMS	MR	MSS	MS	MSS	S	MSS	MRMS	S	MSS	MSS
LRPB Matador(Ф)	MS	MS	MSS	S	MRMS	MSS	S	MS	MS (P)	S (P)	S	MRMS (P)
LRPB Nighthawk(Ф)	RMR	MR	MS	MS	MS	SVS	MSS	MS	MS		MSS	MS
LRPB Optimus(Ф)	MR	MRMS	RMR	S	MSS	MSS	MSS	MS	MS	S	MSS	MS
LRPB Oryx(Ф)	MR	MRMS	RMR#	SVS	MSS	MR	MSS	MSS	S	S	MSS	MS
LRPB Raider(Ф)	RMR	MR	RMR	S	MSS	S	MSS	MS	S		S	MSS
LRPB Scotch(Ф)	MSS	MRMS	MR#	S	MRMS	MR	MS	S	MS	S	S	MS
LRPB Scout(Ф)	MRMS	MS	MS	S	SVS	S	S	MSS	R		S	S
LRPB Trojan(Ф)	MRMS	S	MR	S	MSS	S	MSS	MSS	MS	MS	MS	MS
Mace(Ф)	MRMS	SVS	S	SVS	MRMS	MSS	MS	MS	MRMS	S	S	MRMS
Mammoth(Ф)	MR	MSS	MRMS	MSS	MRMS	SVS	MSS	MRMS	MSS	MSS	S	MS
Manning(Ф)	MR	MR	MSS	MRMS/S	MRMS	MRMS	MSS	S	S	MS (P)	VS	S
Mowhawk(Ф)	RMR (P)		MR (P)	MSS (P)	MRMS (P)	MR				MSS (P)		
Naparoo(Ф)	MRMS	MRMS	MS	S	MRMS	MR (P)	SVS	S			S	
Packer(Ф)	MR	MRMS	MR	MSS	MS	MSS	S	S	R (P)	S (P)	MS (P)	S (P)
Razor CL Plus(Ф)	MRMS	MRMS	S	SVS	MSS	MSS	S	MS	MR	S	S	MS
Reilly(Ф)	MRMS	MS	MSS	S	S	MSS	MS	MSS	R	S	S	MSS
RGT Accroc(Ф)	MRMS	MRMS	S	MS	MRMS	MRMS	MS	MSS	S	MSS (P)	SVS	MRMS
RGT Calabro	MS	MRMS	MS	MRMS	MR	RMR	S	MS	S		SVS	MS
RGT Cesario(Ф)	RMR	MRMS	RMR	MRMS	MR	RMR	MRMS	MSS	MSS (P)		VS	R (P)
RGT Ponsford(Ф)	RMR	MS	MR	MSS	MS	MSS	MSS	S	MRMS	S	MSS	S
RGT Waugh(Ф)	MS	MR	S	MRMS#	MRMS	RMR	MSS	MSS	MS		S	MRMS
RGT Zanzibar	VS	RMR	SVS	MSS	MS	RMR	S	MS (P)	MSS		S	MRMS
RockStar(Ф)	MRMS	S	S	S	MRMS	SVS	MRMS	MS	MSS	S	S	MSS
Scepter(Ф)	MRMS	S	MSS	S	MRMS	SVS	S	MSS	MRMS	S	MSS	MS
Severn(Ф)	MRMS	MR	MR	MSS	MRMS	RMR	S	MRMS	MSS (P)		S	MR
Sheriff CL Plus(Ф)	MS	SVS	SVS	S	MRMS	SVS	MRMS	MS	MS	S	S	MS
Shotgun(Ф)	MRMS	MSS	MSS	S (P)	MRMS	S	MS (P)	MRMS	R (P)	S (P)	MS (P)	S (P)
Soaker(Ф)	MRMS	S	MSS	S	MRMS	S	S	S	MRMS (P)	S (P)	MS (P)	
Stockade(Ф)	MS	MR	MR	MS	MRMS	SVS	S	MSS	MRMS	MSS (P)	S	MRMS
Sunblade CL Plus(Ф)	MS	MRMS	MSS	S	MSS	S	MSS	MRMS	MSS		S	MRMS
Sunflex(Ф)	MR	MRMS	RMR	SVS	MS	S	S	MSS	MS		MSS	MSS
Sunmaster(Ф)	MS	MRMS	RMR	S	MSS	S	MRMS	MS	MSS		MSS	MR
Tomahawk CL Plus(Ф)	MR	S	S	S	MRMS	SVS	S	MS	MRMS	S	MSS	S
Triple 2(Ф)	MR (P)	RMR (P)	MRMS	MR	MR (P)	MRMS	R (P)	MR	MS (P)		MRMS (P)	S (P)
Valiant(Ф) CL Plus	MRMS	S	S	MSS	MRMS	VS	S	S (P)	MSS (P)	MSS	MSS	MRMS
Vixen(Ф)	MRMS	SVS	SVS	S	MRMS	SVS	MRMS	MS	MSS	S	S	MSS
Wallaroo(Ф)	RMR	RMR	RMR	MSS	MRMS	S	MS	MRMS	R	S	MSS	MS
Willaura(Ф)	MR	S	MRMS	S	MS	SVS	MSS	MRMS	MS	MSS (P)	S	MRMS
Yitpi	S	MS	MSS	S	SVS	MS	MSS	S	MR		S	MS
Zen(Ф)	S (MRMS)	S	S	S	MRMS	MSS	MRMS	S	S		S	MRMS

Continued on next page

Table 17: Wheat disease guide for South Australia (continued).

Variety	Stem rust	Stripe rust (east coast resistance)	Leaf rust	*Septoria tritici* blotch	Yellow leaf spot	Powdery mildew	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)	CCN	Eyespot	Crown rot	Black point
DURUM												
Bitalli(Þ)	RMR	MRMS	MR	MSS	MRMS	S	MSS	RMR	MSS		SVS	MS
Caparoi(Þ)	MR	MRMS	RMR	MRMS/S	MRMS	S	MS	MR	MRMS (P)		VS	MSS
DBA Bindaroi(Þ)	MR	MRMS	RMR	MS	MS	S	MRMS	MR	MS		SVS	MRMS
DBA Lillaroi(Þ)	RMR	MRMS	RMR	S	MRMS	S	MRMS	RMR	S		SVS	MS
DBA Mataroi(Þ)	MRMS	MRMS	MR	MSS	MRMS	S	MS	RMR	MRMS		SVS	MS
DBA Vittaroi(Þ)	MR	MRMS	RMR	MSS	MRMS	MSS	MS	MR	S		SVS	MSS
DBA-Aurora(Þ)	RMR	MR	RMR	MRMS/S	MRMS	MSS	MRMS	RMR	MSS		SVS	MS
Hyperno(Þ)	RMR	MRMS	RMR	MS	MRMS	MSS	MS	RMR	MS		SVS	MS
Jandaroi(Þ)	MRMS (R)	MRMS	RMR	MSS	MRMS	S (P)	MS	MRMS	MS		VS	MS
Patron(Þ)	RMR	MRMS	RMR	MRMS	MRMS	S	MRMS	MR	S		SVS	MSS
Saintly	MS	MRMS	RMR	MRMS/S	MRMS	S (P)	MS	RMR	MS		VS (P)	MS
Westcourt(Þ)	RMR	MR	RMR	S	MRMS	MSS	MS	MR	MSS		VS	MSS

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

Table 18: Wheat disease guide for Victoria.

Variety	Stem rust	Stripe rust (east coast resistance)	Leaf rust	*Septoria tritici* blotch	Yellow leaf spot	Powdery mildew	Crown rot	CCN	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)
Anapurna	MSS	RMR	MS	MRMS	MRMS	RMR	SVS	MRMS	MS	S (P)
Ascot(b)	MRMS	MSS	RMR	S	MRMS	S	S	MR	S	S
Avoca(b)	MRMS	MRMS	MSS	MSS	MSS	MS	MSS (P)	S (P)	R (P)	MSS
Ballista(b)	MR	MSS	S	SVS	MS	SVS	S	MRMS	S	MRMS
Beckom(b)	MRMS	MRMS	MSS	S	MSS	S	S	R	S	MSS
BigRed(b)	S	RMR	MRMS	MR	MR	RMR	MSS	S	MRMS	MS
Boa(b)	MS	MRMS	MR	S	MRMS	S	MSS (P)	R (P)	S	VS
Boree(b)	MR	SVS	S	SVS	MRMS	SVS	S	MSS	S	MSS
Brighton(b)	MRMS	MRMS	S	S	MRMS	SVS	S	R	S	MS
Brumby(b)	MR	MS	SVS	S	MRMS	MSS	S	MRMS	MRMS	MS
Calibre(b)	MR	S	S	S	MRMS	MSS	S	MRMS	S	MSS
Catapult(b)	MR	S	S	MSS	MRMS	S	MSS	R	S	MS
Chief CL Plus(b)	MR	SVS	MR	S	MRMS	SVS	MSS	MS	MRMS	MSS
Coolah(b)	MR	MSS	RMR	MSS	MSS	MSS	MSS	S	S	MS
Coota(b)	RMR	S	MR	S	MSS	S	MSS	MR	MR	MS
Cutlass(b)	R	MSS	RMR	MSS	MSS	MSS	S	MR	MSS	MSS
Denison(b)	MS	S	S	MSS	MRMS	S	MSS	MS	S	S
Dozer(b) CL Plus	MS	S	S	S	MRMS	S	S	MS	MRMS	S
DS Bennett(b)	MS	S	SVS	MSS	MRMS	R	VS	S	S	S
DS Pascal(b)	MSS	MRMS	MRMS	MSS	MS	RMR	S	S	S	S
EG Jet(b)	S	MRMS	MSS	MSS	MRMS	SVS	S	MRMS	S	S
EG Titanium(b)	MS	MR	MS	MSS	MSS	S	MSS	R	MSS	MSS
EGA Gregory(b)	MR	MS	MR	MSS	S	MSS	S	S	S	MSS
EGA Wedgetail(b)	MRMS	MS	MSS	MSS	MSS	MSS (P)	S	S	S	VS
Genie(b)	MRMS	MSS	S	S	MRMS (P)	SVS	MS (P)	MSS (P)	MS (P)	MRMS
Hammer CL Plus(b)	MR	MS	S	MSS	MRMS	S	MSS	MRMS	MSS	S
Illabo(b)	MR	MRMS	S	MSS	MS	RMR	S	MRMS	MSS	MSS
Ironbark(b)	MS	MR	MRMS	S	MSS	S	MSS (P)	MS (P)	S	MR (P)
Jillaroo(b)	MS	S	S	S	MS	SVS	S	MS	S	MS (P)
Kingston(b)	S	MSS	S	S	MSS	S	S	R	S	MR
Lancelin(b)	MRMS	MSS	MSS	SVS	MRMS	S	S	MRMS	SVS	MS
Leverage(b)	MR	MRMS	RMR	S	MRMS	SVS	S	MS	S	MS
Longford(b)	RMR	RMR	RMR	MRMS/S	MRMS	RMR	MSS	MS	S	S
Longsword(b)	MR	MRMS/MS	MSS	MS	MRMS	S	MSS	MRMS	MRMS	MRMS
LRPB Anvil(b) CL Plus	MR	S	SVS	VS	MSS	SVS	MSS	MS	MSS	S
LRPB Avenger(b)	MS	S	SVS	S	MS	SVS	S	MRMS	MSS	MRMS
LRPB Bale(b)	MRMS	MRMS	MSS	MSS	SVS	MRMS	S	R	S	S
LRPB Beaufort(b)	SVS	RMR	MSS	S	MRMS	R (P)	S	MS	MS	MSS
LRPB Dual(b)	MRMS	MS	MSS	MSS	S	S	S	R	MSS	MSS
LRPB Hellfire(b)	MR	MRMS	MSS	S	MSS	S	MSS	MS	MSS	MSS
LRPB Impala(b)	MR	MRMS	SVS	SVS	MSS	MR	MSS	MSS	SVS	S
LRPB Kittyhawk(b)	MRMS	MR	MR	MRMS	MRMS	MS	SVS	S	S	S
LRPB Lancer(b)	R	RMR	RMR	MSS	MS	MR	MSS	S	S	MS
LRPB Major(b)	MRMS	MRMS	MR	MSS	MS	MSS	MSS	MRMS	S	MSS
LRPB Matador(b)	MS	MS	MSS	S	MRMS	MSS	S	MS (P)	S	MS

Continued on next page

Table 18: Wheat disease guide for Victoria (continued).

Variety	Stem rust	Stripe rust (east coast resistance)	Leaf rust	*Septoria tritici* blotch	Yellow leaf spot	Powdery mildew	Crown rot	CCN	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)
LRPB Nighthawk(ф)	RMR	MR	MS	MS	MS	SVS	MSS	MS	MSS	MS
LRPB Optimus(ф)	MR	MRMS	RMR	S	MSS	MSS	MSS	MS	MSS	MS
LRPB Oryx(ф)	MR	MRMS	RMR#	SVS	MSS	MR	MSS	S	MSS	MSS
LRPB Parakeet(ф)	MR	MR	RMR	SVS	MSS	SVS	MSS	MS	MRMS	S
LRPB Raider(ф)	RMR	MR	RMR	S	MSS	S	S	S	MSS	MS
LRPB Scout(ф)	MRMS	MS	MS	S	SVS	S	S	R	S	MSS
LRPB Stealth(ф)	R	RMR	RMR	MSS	MS	MRMS	MSS	S	MSS	S
LRPB Trojan(ф)	MRMS	S	MR	S	MSS	S	MS	MS	MSS	MSS
Mace(ф)	MRMS	SVS	S	SVS	MRMS	MSS	S	MRMS	MS	MS
Mammoth(ф)	MR	MSS	MRMS	MSS	MRMS	SVS	S	MSS	MSS	MRMS
Manning(ф)	MR	MR	MSS	MRMS/S	MRMS	MRMS	VS	S	MSS	S
Mowhawk(ф)	RMR (P)		MR (P)	MSS (P)	MRMS (P)	MR				
Naparoo(ф)	MRMS	MRMS	MS	S	MRMS	MR (P)	S		SVS	S
Packer(ф)	MR	MRMS	MR	MSS	MS	MSS	MS (P)	R (P)	S	S
Razor CL Plus(ф)	MRMS	MRMS	S	SVS	MSS	MSS	S	MR	S	MS
Reilly(ф)	MRMS	MS	MSS	S	S	MSS	S	R	MS	MSS
RGT Accroc(ф)	MRMS	MRMS	S	MS	MRMS	MRMS	SVS	S	MS	MSS
RGT Calabro	MS	MRMS	MS	MRMS	MR	RMR	SVS	S	S	MS
RGT Cesario(ф)	RMR	MRMS	RMR	MRMS	MR	RMR	VS	MSS (P)	MRMS	MSS
RGT Healy(ф)	MRMS	MRMS	MR	MSS	MSS	S	S	MR	MSS	MR
RGT Ponsford(ф)	RMR	MS	MR	MSS	MS	MSS	MSS	MRMS	MSS	S
RGT Waugh(ф)	MS	MR	S	MRMS#	MRMS	RMR	S	MS	MSS	MSS
RGT Zanzibar	VS	RMR	SVS	MSS	MS	RMR	S	MSS	S	MS (P)
RockStar(ф)	MRMS	S	S	S	MRMS	SVS	S	MSS	MRMS	MS
Scepter(ф)	MRMS	S	MSS	S	MRMS	SVS	MSS	MRMS	S	MSS
Severn(ф)	MRMS	MR	MR	MSS	MRMS	RMR	S	MSS (P)	S	MRMS
Sheriff CL Plus(ф)	MS	SVS	SVS	S	MRMS	SVS	S	MS	MRMS	MS
Shotgun(ф)	MRMS	MSS	MSS	S (P)	MRMS	S	MS (P)	R (P)	MS (P)	MRMS
Soaker(ф)	MRMS	S	MSS	S	MRMS	S	MS (P)	MRMS (P)	S	S
Stockade(ф)	MS	MR	MR	MS	MRMS	SVS	S	MRMS	S	MSS
Sunblade CL Plus(ф)	MS	MRMS	MSS	S	MSS	S	S	MSS	MSS	MRMS
Suncentral(ф)	MRMS	MS	RMR	S	MSS	SVS	MSS	S	MRMS	MRMS
Sundancer(ф)	MR	MR	RMR	MSS	MS	S	MSS	MS	MSS	MS
Sunflex(ф)	MR	MRMS	RMR	SVS	MS	S	MSS	MS	S	MSS
Sunmaster(ф)	MS	MRMS	RMR	S	MSS	S	MSS	MSS	MRMS	MS
Tomahawk CL Plus(ф)	MR	S	S	S	MRMS	SVS	MSS	MRMS	S	MS
Triple 2(ф)	MR (P)	RMR (P)	MRMS	MR	MR (P)	MRMS	MRMS (P)	MS (P)	R (P)	MR
Valiant(ф) CL Plus	MRMS	S	S	MSS	MRMS	VS	MSS	MSS (P)	S	S (P)
Vixen(ф)	MRMS	SVS	SVS	S	MRMS	SVS	S	MSS	MRMS	MS
Wallaroo(ф)	RMR	RMR	RMR	MSS	MRMS	S	MSS	R	MS	MRMS
Willaura(ф)	MR	S	MRMS	S	MS	SVS	S	MS	MSS	MRMS
Yitpi	S	MS	MSS	S	SVS	MS	S	MR	MSS	S

Continued on next page

Table 18: Wheat disease guide for Victoria (continued).

Variety	Stem rust	Stripe rust (east coast resistance)	Leaf rust	*Septoria tritici* blotch	Yellow leaf spot	Powdery mildew	Crown rot	CCN	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)
DURUM										
Bitalli(Þ)	RMR	MRMS	MR	MSS	MRMS	S	SVS	MSS	MSS	RMR
Caparoi(Þ)	MR	MRMS	RMR	MRMS/S	MRMS	S	VS	MRMS (P)	MS	MR
DBA Bindaroi(Þ)	MR	MRMS	RMR	MS	MS	S	SVS	MS	MRMS	MR
DBA Lillaroi(Þ)	RMR	MRMS	RMR	S	MRMS	S	SVS	S	MRMS	RMR
DBA Mataroi(Þ)	MRMS	MRMS	MR	MSS	MRMS	S	SVS	MRMS	MS	RMR
DBA Vittaroi(Þ)	MR	MRMS	RMR	MSS	MRMS	MSS	SVS	S	MS	MR
DBA-Aurora(Þ)	RMR	MR	RMR	MRMS/S	MRMS	MSS	SVS	MSS	MRMS	RMR
Hyperno(Þ)	RMR	MRMS	RMR	MS	MRMS	MSS	SVS	MS	MS	RMR
Jandaroi(Þ)	MRMS (R)	MRMS	RMR	MSS	MRMS	S (P)	VS	MS	MS	MRMS
Patron(Þ)	RMR	MRMS	RMR	MRMS	MRMS	S	SVS	S	MRMS	MR
Saintly	MS	MRMS	RMR	MRMS/S	MRMS	S (P)	VS (P)	S	MS	RMR
Westcourt(Þ)	RMR	MR	RMR	S	MRMS	MSS	VS	MSS	MS	MR

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

Wheat variety maturity

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

Table 19: An industry guide for wheat variety maturity description.

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

Source: Australian Crop Breeders Ltd

Wheat optimum time of sowing – an example for Mallee South Australia and Victoria

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

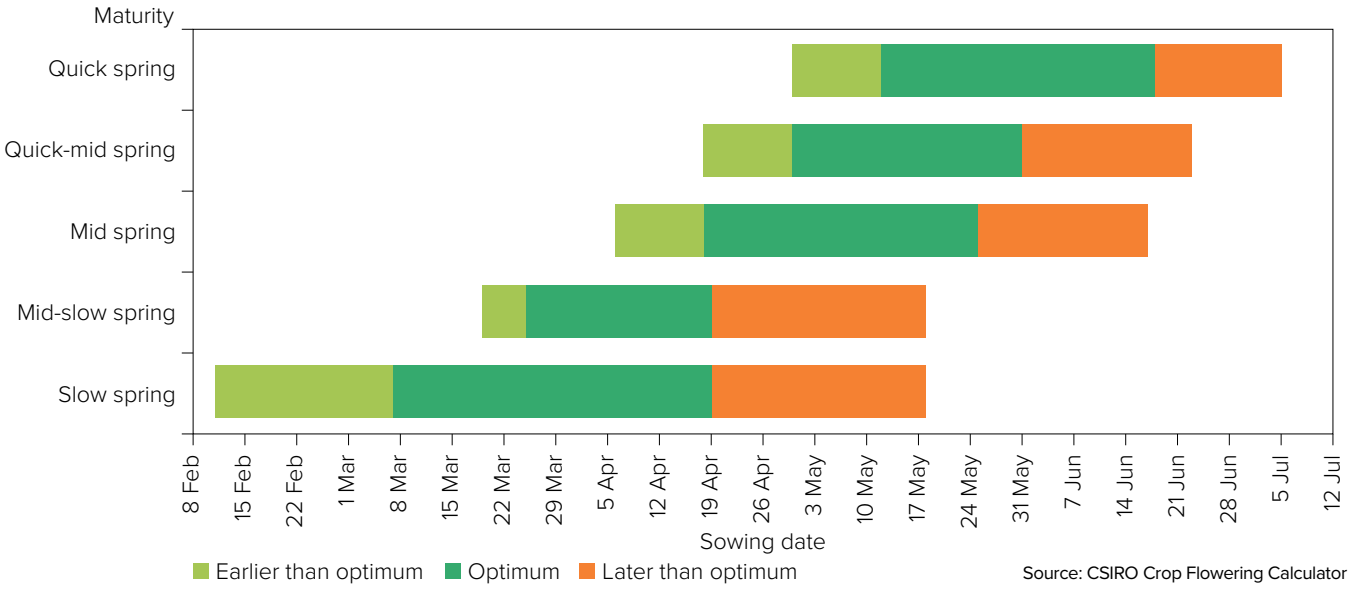
Growers and advisers are encouraged to use the Crop Flowering Calculator to compare the impact of specific variety selection and sowing date for the ideal flowering window at their own location. The Crop Flowering Calculator is a simple phenology (maturity) model that uses 60 years of local weather data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

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

This time of sowing guide (Figure 13) is automatically generated from the database that underpins the Crop Flowering Calculator. The guide presents the optimal sowing windows for generic varieties for a single location.

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

Figure 13: Optimum time of sowing by variety maturity for Lameroo as an example for Mallee South Australia and Victoria.



Source: CSIRO Crop Flowering Calculator

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

BARLEY

New barley varieties

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

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

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

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

Barley variety yield performance – Mallee South Australia and Victoria

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

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

Table 1: Birchip main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	5.64	2.31	5.13	5.02	4.95
Neo(Ð) CL*				120	105
Combat(Ð)			104	112	110
Cyclops(Ð)	110	112	100	122	98
Bigfoot CL(Ð)*				118	101
Minotaur(Ð)	108	110	105	116	99
Yeti(Ð)	103	115	97	114	101
Rosalind(Ð)	106	95	103	108	105
Spinnaker(Ð)			111	99	106
Laperouse(Ð)	103	118	96	117	94
Leabrook(Ð)	98	123	97	102	108
Titan AX(Ð)*			96	105	102
Beast(Ð)	100	113	93	105	107
Maximus(Ð) CL*	105	99	92	116	97
RGT Planet(Ð)	103	89	112	93	104
PegasusAX(Ð)*					102
Sowing date	**14 May**	**10 May**	**9 May**	**11 May**	**12 May**
Rainfall J–M (mm)	**101**	**25**	**60**	**23**	**69**
Rainfall A–O (mm)	**205**	**172**	**384**	**118**	**146**

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

Table 2: Cooke Plains main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	6.04	4.05			
Leabrook(Ð)	103	118	Trial failed	Trial results below standard	Compromised trial
Combat(Ð)		114			
Titan AX(Ð)*		118			
Minotaur(Ð)	105	108			
RGT Planet(Ð)	110	100			
Compass(Ð)	100	113			
Commodus(Ð) CL*	98	110			
Cyclops(Ð)	98	109			
Beast(Ð)	98	108			
Yeti(Ð)	100	105			
Laperouse(Ð)	98	105			
Rosalind(Ð)	102	98			
Commander(Ð)	95	107			
Fathom(Ð)	94	100			
Buff(Ð)	94	100			
Sowing date	**12 May**	**10 Jun**	**1 Jun**	**8 Jun**	**18 Jun**
Rainfall J–M (mm)	**34**	**49**	**24**	**56**	**62**
Rainfall A–O (mm)	**292**	**232**	**342**	**210**	**136**

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

Table 3: Hopetoun main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)					
	No trial	No trial	No trial	No trial	Compromised trial
Sowing date					**30 May**
Rainfall J–M (mm)					**78**
Rainfall A–O (mm)					**100**

Special thanks to 2024 trial cooperator.

Table 4: Lameroo main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	4.03	0.85	4.15	3.43	1.70
Combat(Ð)		120	113	112	142
Neo(Ð) CL*				116	92
Rosalind(Ð)	110	105	107	107	123
Spinnaker(Ð)			115	108	100
Cyclops(Ð)	112	113	99	106	114
Beast(Ð)	108	121	95	100	137
Minotaur(Ð)	109	104	104	107	100
RGT Planet(Ð)	104	88	116	107	90
Leabrook(Ð)	107	119	98	100	124
PegasusAX(Ð)*				104	110
Bigfoot CL(Ð)*				104	109
Zena(Ð) CL*			114	105	91
Fathom(Ð)	105	112	96	99	125
Yeti(Ð)	105	112	94	102	120
La Trobe(Ð)	103	106	95	99	123
Sowing date	**6 May**	**26 May**	**26 May**	**9 May**	**31 May**
Rainfall J–M (mm)	**56**	**52**	**30**	**35**	**40**
Rainfall A–O (mm)	**241**	**149**	**302**	**194**	**154**

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

Table 5: Manangatang main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.77	3.08	5.99	2.85	2.51
Combat(ↀ)			114	118	115
Cyclops(ↀ)	114	116	113	118	106
Neo(ↀ) CL*				107	108
Titan AX(ↀ)*			110	108	110
Leabrook(ↀ)	111	116	106	104	109
Minotaur(ↀ)	108	108	110	110	104
Bigfoot CL(ↀ)*				108	102
Beast(ↀ)	114	116	100	106	105
Laperouse(ↀ)	107	106	104	108	98
Compass(ↀ)	108	112	100	99	106
Yeti(ↀ)	112	109	99	105	98
Rosalind(ↀ)	109	107	100	104	100
Fathom(ↀ)	106	109	99	104	103
Commodus(ↀ) CL*	106	110	99	99	104
Buff(ↀ)	99	104	101	102	105
Sowing date	**12 May**	**25 May**	**17 May**	**8 May**	**16 May**
Rainfall J–M (mm)	**48**	**48**	**41**	**25**	**110**
Rainfall A–O (mm)	**227**	**150**	**462**	**144**	**101**

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

Table 6: Merrinee main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)					2.38
Combat(ↀ)	No trial	No trial	No trial	No trial	117
Beast(ↀ)					115
Leabrook(ↀ)					112
Cyclops(ↀ)					111
Compass(ↀ)					111
Titan AX(ↀ)*					110
Commodus(ↀ) CL*					109
Yeti(ↀ)					109
Fathom(ↀ)					109
Maximus(ↀ) CL*					108
La Trobe(ↀ)					107
Bigfoot CL(ↀ)*					107
Rosalind(ↀ)					106
Spartacus CL(ↀ)*					105
Buff(ↀ)					104
Sowing date					**30 May**
Rainfall J–M (mm)					**70**
Rainfall A–O (mm)					**104**

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

Table 7: Murrayville main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.48	1.97	4.84	4.48	1.89
Combat(ↀ)			116	116	133
Neo(ↀ) CL*				121	98
Cyclops(ↀ)	106	106	106	120	105
Minotaur(ↀ)	104	106	107	116	98
Rosalind(ↀ)	110	104	103	108	120
Spinnaker(ↀ)			111	106	104
Bigfoot CL(ↀ)*				108	106
Leabrook(ↀ)	117	113	107	92	121
Beast(ↀ)	117	109	100	95	131
Yeti(ↀ)	111	107	98	103	116
Titan AX(ↀ)*			106	97	106
RGT Planet(ↀ)	100	102	110	104	96
PegasusAX(ↀ)*					109
Zena(ↀ) CL*			107	101	97
Fathom(ↀ)	107	101	98	96	119
Sowing date	**11 May**	**11 May**	**11 May**	**11 May**	**30 May**
Rainfall J–M (mm)	**50**	**38**	**49**	**22**	**41**
Rainfall A–O (mm)	**240**	**149**	**369**	**229**	**139**

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

Table 8: Nangari main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)					2.04
Compass(ↀ)	No trial	No trial	No trial	No trial	112
Leabrook(ↀ)					112
Titan AX(ↀ)*					111
Beast(ↀ)					111
Commodus(ↀ) CL*					110
Combat(ↀ)					108
Yeti(ↀ)					107
Bigfoot CL(ↀ)*					107
Cyclops(ↀ)					106
Laperouse(ↀ)					105
Fathom(ↀ)					105
Buff(ↀ)					103
Maximus(ↀ) CL*					103
Minotaur(ↀ)					102
Spartacus CL(ↀ)*					101
Sowing date					**12 Jun**
Rainfall J–M (mm)					**66**
Rainfall A–O (mm)					**121**

Special thanks to 2024 trial cooperator, CJ and KA Scholz.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 9: Palmer main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.20	2.66	3.95	3.85	2.47
Combat(ɗ)		122	108	109	119
Leabrook(ɗ)	125	127	107	106	114
Beast(ɗ)	132	124	100	107	112
Compass(ɗ)	124	125	104	104	112
Titan AX(ɗ)*		127	102	104	113
Commodus(ɗ) CL*	119	121	101	103	109
Neo(ɗ) CL*				108	104
Bigfoot CL(ɗ)*				106	105
Cyclops(ɗ)	118	117	96	106	109
Yeti(ɗ)	119	113	98	106	103
Fathom(ɗ)	119	112	96	102	107
Rosalind(ɗ)	113	101	103	105	103
Minotaur(ɗ)	105	106	103	104	103
Buff(ɗ)	107	108	96	99	106
Spinnaker(ɗ)			113	102	101
Sowing date	**4 May**	**8 Jun**	**9 May**	**16 May**	**21 Jun**
Rainfall J–M (mm)	**32**	**51**	**55**	**42**	**30**
Rainfall A–O (mm)	**222**	**285**	**316**	**175**	**177**

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

Table 10: Paruna main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.81	0.94	4.17	2.53	
Combat(ɗ)		140	125	108	
Cyclops(ɗ)	106	117	119	107	
Neo(ɗ) CL*				109	
Leabrook(ɗ)	111	104	105	117	
Beast(ɗ)	112	114	102	116	
Titan AX(ɗ)*		104	110	113	
Minotaur(ɗ)	105	103	113	104	
Rosalind(ɗ)	112	114	104	104	No trial
Bigfoot CL(ɗ)*				115	
Compass(ɗ)	107	100	97	117	
Fathom(ɗ)	106	117	101	105	
Spinnaker(ɗ)			105	98	
Yeti(ɗ)	105	97	98	115	
Commodus(ɗ) CL*	104	99	96	114	
Buff(ɗ)	101	115	103	98	
Sowing date	**5 May**	**26 May**	**4 May**	**22 May**	
Rainfall J–M (mm)	**56**	**20**	**47**	**26**	
Rainfall A–O (mm)	**214**	**129**	**363**	**153**	

No 2024 trial cooperator.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 11: Rainbow main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	3.21	3.32	4.75	3.94	
Neo(ɗ) CL*				108	
Combat(ɗ)			113	112	
Minotaur(ɗ)	109	106	110	105	
Spinnaker(ɗ)			114	102	
Cyclops(ɗ)	108	107	107	107	
RGT Planet(ɗ)	110	99	114	100	
Bigfoot CL(ɗ)*				105	
Zena(ɗ) CL*			112	99	No trial
Rosalind(ɗ)	100	99	109	103	
Titan AX(ɗ)*			91	106	
Leabrook(ɗ)	100	111	92	106	
Laperouse(ɗ)	99	105	96	101	
Yeti(ɗ)	95	103	97	102	
Commander(ɗ)	104	105	90	100	
Beast(ɗ)	94	105	92	105	
Sowing date	**22 May**	**18 May**	**19 May**	**16 May**	
Rainfall J–M (mm)	**88**	**51**	**76**	**33**	
Rainfall A–O (mm)	**253**	**205**	**421**	**198**	

No 2024 trial cooperator.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Table 12: Ultima main season barley.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.78	1.33	6.98	2.27	
Combat(ɗ)			113	126	
Neo(ɗ) CL*				108	
Cyclops(ɗ)	115	103	106	125	
Minotaur(ɗ)	108	103	109	113	
Bigfoot CL(ɗ)*				112	
Rosalind(ɗ)	111	110	106	103	Compromised trial
Spinnaker(ɗ)			111	96	
Beast(ɗ)	117	110	96	111	
Yeti(ɗ)	116	110	98	106	
Leabrook(ɗ)	112	107	98	112	
Titan AX(ɗ)*			98	118	
Maximus(ɗ) CL*	115	107	96	106	
Laperouse(ɗ)	109	100	98	111	
RGT Planet(ɗ)	91	101	111	91	
Fathom(ɗ)	109	103	96	107	
Sowing date	**11 May**	**11 May**	**11 May**	**11 May**	**14 May**
Rainfall J–M (mm)	**47**	**29**	**63**	**34**	**84**
Rainfall A–O (mm)	**233**	**199**	**453**	**209**	**166**

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

Table 13: Walpeup main season barley.					
Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	4.81	3.28	5.72	4.52	
Neo(Ↄ) CL*				120	Trial failed
Combat(Ↄ)			115	114	
Cyclops(Ↄ)	109	112	107	117	
Minotaur(Ↄ)	107	106	109	114	
Bigfoot CL(Ↄ)*				113	
Rosalind(Ↄ)	103	106	104	110	
Spinnaker(Ↄ)			111	104	
Yeti(Ↄ)	101	108	97	111	
Laperouse(Ↄ)	103	104	97	110	
RGT Planet(Ↄ)	101	96	111	99	
Titan AX(Ↄ)*			101	99	
Maximus(Ↄ) CL*	102	104	92	114	
Leabrook(Ↄ)	99	113	101	99	
Beast(Ↄ)	99	113	97	103	
Zena(Ↄ) CL*			108	98	
Sowing date	**11 May**	**25 May**	**13 May**	**11 May**	**16 May**
Rainfall J–M (mm)	**85**	**54**	**86**	**55**	**56**
Rainfall A–O (mm)	**247**	**189**	**444**	**228**	**137**

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

Barley variety quality – Mallee South Australia and Victoria

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

The following figures show the grain quality trends as histograms from 2023 and 2024 NVT averaged for trials in the Mallee South Australia and Victoria region. Only the varieties evaluated at every site are included. These are plotted in order of performance, up to a maximum of 20.

Protein and yield comparisons

Figure 1: Protein (%) and yield (t/ha) comparisons for main season barley varieties from 10 NVT sites in Mallee SA–Victoria in 2023.

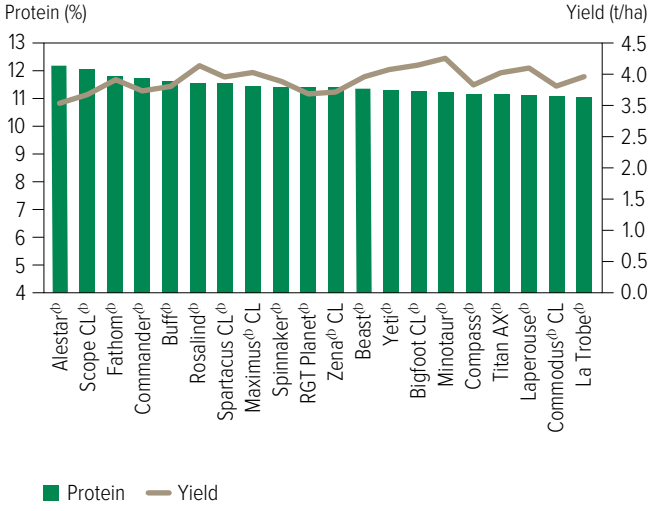
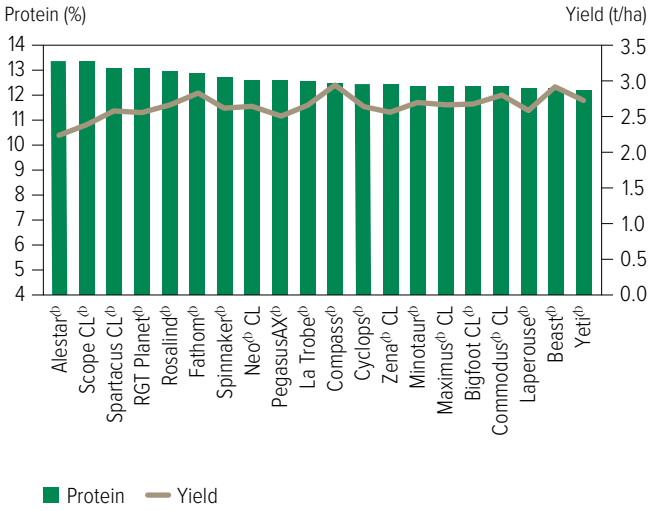


Figure 2: Protein (%) and yield (t/ha) comparisons for main season barley varieties from seven NVT sites in Mallee SA–Victoria in 2024.



Test weight comparisons

Figure 3: Test weight (kg/hL) comparisons for main season barley varieties from 10 NVT sites in Mallee SA–Victoria in 2023.

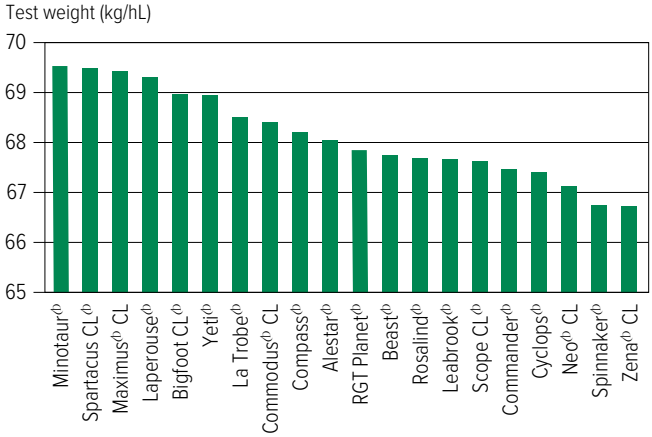
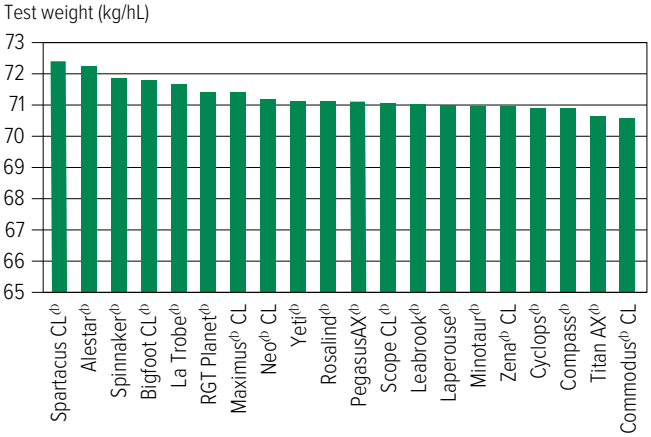


Figure 4: Test weight (kg/hL) comparisons for main season barley varieties from seven NVT sites in Mallee SA–Victoria in 2024.



Screenings comparisons

Figure 5: Screenings (<2.2mm) comparisons for main season barley varieties from 10 NVT sites in Mallee SA–Victoria in 2023.

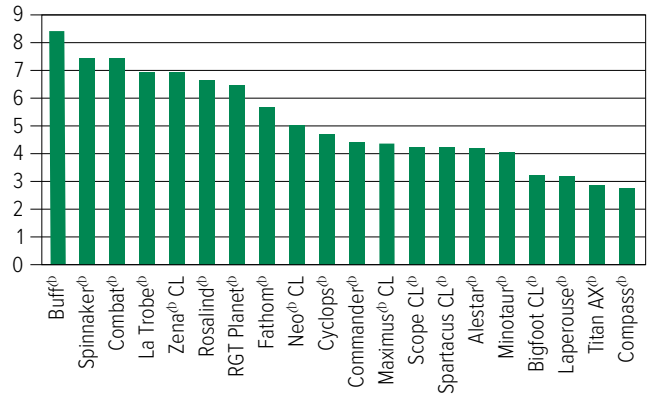
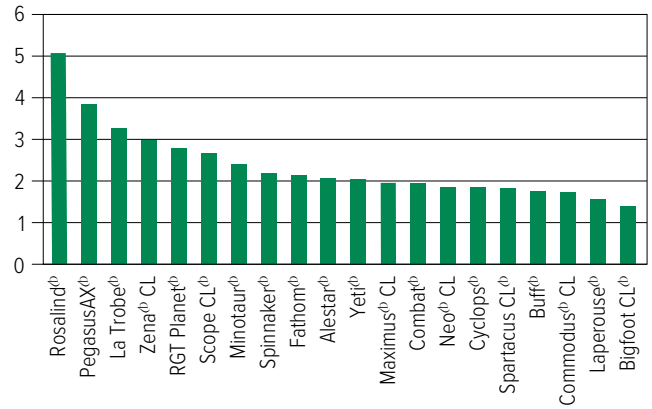


Figure 6: Screenings (<2.2mm) comparisons for main season barley varieties from seven NVT sites in Mallee SA–Victoria in 2024.



Retention comparisons

Figure 7: Retention (>2.5mm) comparisons for main season barley varieties from 10 NVT sites in Mallee SA–Victoria in 2023.

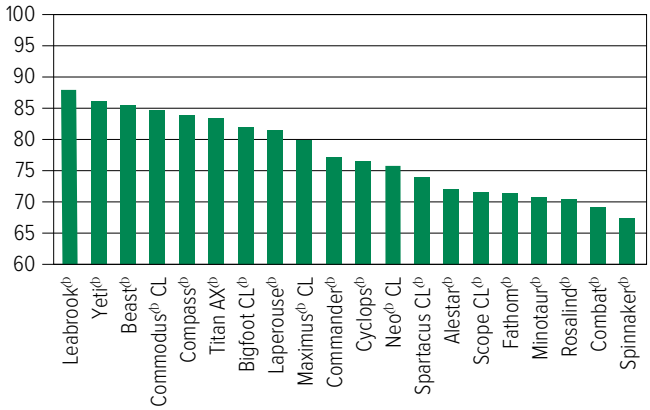
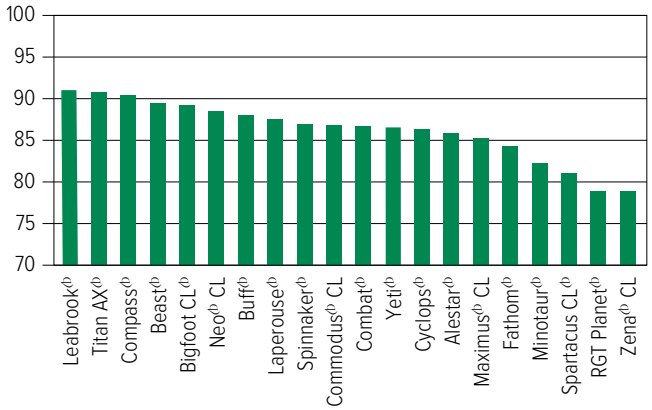


Figure 8: Retention (>2.5mm) comparisons for main season barley varieties from seven NVT sites in Mallee SA–Victoria in 2024.



Barley variety disease ratings – South Australia and Victoria

The following tables contain varietal ratings for the predominant diseases of barley in South Australia and Victoria. These ratings are updated annually by crop pathologists and were released in March 2025.

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

Table 14: Barley disease guide for South Australia.

Variety	Leaf rust	Net form net blotch	Spot form net blotch	Leaf scald	Ramularia	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)	CCN	Crown rot	Black point	Powdery mildew
Alestar(ɗ)	MS	MRMS-S	S	SVS	SVS	MR	MR	R^ (P)	S	MRMS	MRMS
Beast(ɗ)	S	MRMS-S	MSS	SVS	SVS	MRMS	MRMS	MR	S	MSS	S
Bigfoot CL(ɗ)	S	MS	MSS	VS	SVS	MR	RMR (P)	R	MSS (P)	S (P)	S
Bottler(ɗ)	MS	R-MS	S	SVS	SVS	MS	RMR		SVS	MRMS	RMR
Buff(ɗ)	SVS	MR-MS	S	MS-VS	SVS	MRMS	MS		S	MS	S
Combat(ɗ)	SVS	MRMS-S	RMR	MS-S	SVS	MRMS	MS	MR	MSS	MSS	MSS
Commander(ɗ)	MSS	S-VS	MSS	SVS	SVS	MRMS	MRMS	R	S	MSS	MSS
Commodus(ɗ) CL	S	MRMS-MSS	MSS	MSS-SVS	SVS	MRMS	MRMS	R	S	MS	MSS
Compass(ɗ)	SVS	MRMS-S	MS	MSS-SVS	SVS	MRMS	MR	R	MSS	MSS	S
Cyclops(ɗ)	SVS	MR-MS	MSS	S	SVS	MRMS	MRMS	S	MSS	MSS	SVS
Fandaga(ɗ)	S	MRMS-SVS	S	SVS	SVS	MR	MR	R	MS	MRMS	R
Fathom(ɗ)	MSS	MSS-SVS	RMR	R-S	SVS	MRMS	MR	R	SVS	MSS	MRMS
Flinders(ɗ)	S	MSS	S	MSS-SVS	SVS	MRMS	MR	S	MSS	MRMS	MR
Granite(ɗ) CL	S	MRMS (P)	MRMS (P)	VS (P)	SVS (P)				SVS (P)		SVS (P)
Kiwi	MSS	MRMS-MSS	MSS	SVS	SVS	MRMS	RMR	S	MSS	MS	MS
La Trobe(ɗ)	S	MS-S	S	R-SVS	SVS	MRMS	MRMS	R	S	MSS	S
Laperouse(ɗ)	S	MRMS-S	MRMS	SVS	SVS	MRMS	MR	S	S	MSS	MSS
Leabrook(ɗ)	S	MR-S	MS	MRMS-SVS	SVS	MRMS	RMR	RMR	S	MS	S
Litmus(ɗ)	S	S-VS	S	VS	SVS	MS	MRMS	MS	S	MS	MSS
Maximus(ɗ) CL	S	MR-MS	MS	R-SVS	SVS	MRMS	MRMS	R	S	MSS	S
Minotaur(ɗ)	SVS	MR-MS	S	VS	SVS	MRMS	MRMS	R	MSS	MRMS	S
Neo(ɗ) CL	MSS	MSS	MR	S	SVS	MR	MRMS	R	VS (P)	MRMS (P)	RMR
Newton	MS	MR	MS	MS	S	MRMS	MRMS	MSS	MSS (P)	MRMS (P)	RMR
PegasusAX(ɗ)	MS	MRMS	MSS	MSS	SVS	MR	MRMS	R	MSS (P)	MSS (P)	S
RGT Atlantis(ɗ)	MS	SVS	S	VS	SVS	MR	RMR	R	SVS (P)	MRMS (P)	R
RGT Planet(ɗ)	MS	MSS-SVS	SVS	R-SVS	SVS	MRMS	MR	R	MSS	MRMS	RMR
Rosalind(ɗ)	MSS	MRMS	S	MR-S	SVS	MRMS	MRMS	R	S	MS	S
Scope CL(ɗ)	S	R-MRMS	MSS	MRMS-SVS	SVS	MRMS	MRMS	S	S	MS	MRMS
Spartacus CL(ɗ)	S	MS-VS	SVS	R-SVS	SVS	MRMS	MRMS	R	S	MSS	S
Spinnaker(ɗ)	MSS	SVS	SVS	S	SVS	MR	MS	S	MSS	MRMS	RMR
Titan AX(ɗ)	SVS	MRMS-S	MSS	VS	SVS	MR	MR	MR (P)	MSS	MSS	MSS
Urambie	S	MRMS	S	R-S	SVS	MRMS	MR		MSS	MRMS	MS
Westminster(ɗ)	MS	MRMS-S	S	R-S	SVS	MRMS	MS		MSS	MRMS	RMR
Yeti(ɗ)	SVS	MR-MSS	MSS	VS	SVS	MR	MR	RMR	S	MSS	S
Zena(ɗ) CL	MSS	MRMS-SVS	SVS	R-S	SVS	MRMS	MR	R	S	MRMS (P)	RMR

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

Table 15: Barley disease guide for Victoria.

Variety	Net form net blotch	Spot form net blotch	Leaf scald	Powdery mildew	Leaf rust	CCN	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)	Ramularia
Alestar(Ф)	S	S	SVS	MRMS	MSS	R^ (P)	MR	MR	SVS
Beast(Ф)	MRMS	MS	SVS	S	S	MR	MRMS	MRMS	SVS
Bigfoot CL(Ф)	MRMS	MRMS	VS	S	S	R	MR	RMR (P)	SVS
Bottler(Ф)	MRMS	MSS	SVS	RMR	MRMS		MS	RMR	SVS
Buff(Ф)	MS	S	SVS	S	SVS		MRMS	MS	SVS
Combat(Ф)	S	MR	S	MSS	S	MR	MRMS	MS	SVS
Commander(Ф)	S	MSS	SVS	MSS	SVS	R	MRMS	MRMS	SVS
Commodus(Ф) CL	MSS	MSS	SVS	MSS	S	R	MRMS	MRMS	SVS
Compass(Ф)	MS	MS	SVS	S	SVS	R	MRMS	MR	SVS
Cyclops(Ф)	MRMS	MSS	S	SVS	SVS	S	MRMS	MRMS	SVS
Fandaga(Ф)	MSS	S	SVS	R	S	R	MR	MR	SVS
Fathom(Ф)	MSS	RMR	S	MRMS	MSS	R	MRMS	MR	SVS
Flinders(Ф)	MS	S	SVS	MR	S	S	MRMS	MR	SVS
Granite(Ф) CL	MR (P)	MS (P)	VS (P)	SVS (P)	SVS (P)				SVS (P)
Kiwi	MRMS	MSS	SVS	MS	MSS	S	MRMS	RMR	SVS
La Trobe(Ф)	MS	S	SVS	S	S	R	MRMS	MRMS	SVS
Laperouse(Ф)	MRMS	MRMS	SVS	MSS	SVS	S	MRMS	MR	SVS
Leabrook(Ф)	MS	MS	SVS	S	SVS	RMR	MRMS	RMR	SVS
Litmus(Ф)	S	S	VS	MSS	SVS	MS	MS	MRMS	SVS
Maximus(Ф) CL	MRMS	MS	SVS	S	S	R	MRMS	MRMS	SVS
Minotaur(Ф)	MRMS	S	VS	S	VS	R	MRMS	MRMS	SVS
Neo(Ф) CL	MSS	MR	S	RMR	SVS	R	MR	MRMS	SVS
Newton	RMR	MS	MR	RMR	MR	MSS	MRMS	MRMS	S
PegasusAX(Ф)	MRMS	MSS	S	S	MRMS	R	MR	MRMS	SVS
RGT Atlantis(Ф)	VS	SVS	SVS	R	MRMS	R	MR	RMR	SVS
RGT Planet(Ф)	SVS	SVS	SVS	RMR	MRMS	R	MRMS	MR	SVS
Rosalind(Ф)	MR	S	S	S	MRMS	R	MRMS	MRMS	SVS
Scope CL(Ф)	MR	MSS	SVS	MRMS	SVS	S	MRMS	MRMS	SVS
Spartacus CL(Ф)	S	SVS	SVS	S	S	R	MRMS	MRMS	SVS
Spinnaker(Ф)	S	SVS	S	RMR	MSS	S	MR	MS	SVS
Titan AX(Ф)	MS	MS	VS	MSS	SVS	MR (P)	MR	MR	SVS
Urambie	MS	S	MS	MS	S		MRMS	MR	SVS
Westminster(Ф)	MRMS	S	SVS	RMR	MRMS		MRMS	MS	SVS
Yeti(Ф)	MRMS	MS	VS	S	S	RMR	MR	MR	SVS
Zena(Ф) CL	SVS	SVS	S	RMR	MRMS	R	MRMS	MR	SVS

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

OAT

New oat varieties

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

Variety	Breeding company	End point royalty* ($)	Comments supplied by breeding company[1]
Goldie(Φ)	InterGrain Pty Ltd	3.50	Goldie(Φ) is a new high-yielding milling oat and is suited to all oat growing regions of southern NSW, Victoria, SA and WA. Goldie(Φ) is a mid-spring maturing oat and is well suited for the second week of April to mid-May sowing window. Goldie(Φ) has a medium-tall plant height and has excellent panicle emergence. It has good test weight and low screenings. Along with excellent grain yield and quality attributes, early hay yield and quality data looks promising for export hay. Goldie(Φ) has a mid-spring maturity.
Minnie(Φ)	InterGrain Pty Ltd	3.50	Minnie(Φ) provides excellent yield potential for medium to high rainfall oat growing regions of southern NSW, Victoria, SA and WA. Its short-medium plant height allows improved lodging and harvestability in higher yielding situations. Minnie(Φ) has a mid-slow spring maturity.

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

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

Oat variety yield performance – Mallee South Australia and Victoria

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

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

Table 1: Waikerie oat.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.76		3.58	1.56	
Koala[Φ]	108	Compromised trial	129	108	No trial
Goldie[Φ]			119	114	
Bannister[Φ]	108		122	109	
Minnie[Φ]			111	104	
Williams[Φ]	103		104	107	
Archer[Φ]*				116	
Yallara[Φ]	103		98	88	
Wallaby[Φ]				91	
Bilby[Φ]	98		88	106	
Kowari[Φ]	95		91	97	
Sowing date	**6 May**	**28 May**	**6 May**	**17 May**	
Rainfall J–M (mm)	**93**	**19**	**28**	**19**	
Rainfall A–O (mm)	**192**	**101**	**313**	**82**	

No 2024 trial cooperator.
* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

Oat variety disease ratings – South Australia and Victoria

The following tables contain varietal ratings for the predominant diseases of oat in South Australia and Victoria. These ratings are updated annually by crop pathologists and were released in March 2025.

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

Table 2: Oat disease guide for South Australia and Victoria.

Variety	Stem rust (east)	Leaf rust (crown rust)	Barley yellow dwarf virus (BYDV)	CCN	Stem nematode resistance	Stem nematode tolerance	Septoria	Bacterial blight	Red leather leaf
Archer(Þ)	MS	R	MSS	VS	VS (P)	I (P)	MSS	MSS	SVS
Bannister(Þ)	S	MRMS	MSS	MRMS	MRMS	MT	MSS	S	MSS-SVS
Bilby(Þ)	S	S	S	VS	S	MI	S	SVS	MS-S
Brusher	SVS	MR	S	MR	S	MT	MSS	SVS	MS
Carrolup	S	VS	SVS	VS	S	I	S	MSS	SVS
Durack(Þ)	S	S	S	MRMS	S	MT	S	S	S
Echidna	S	S	MSS	MRMS	MRMS	MT	SVS	S	MS
Goldie(Þ)	S	R	MS	MR	S	I	MSS	MSS	SVS
Kingbale(Þ)	S	S	MS	R	MR	MT	MS	MSS	SVS
Koala(Þ)	MS	R	MSS	R	MS	MT	MSS	S	S
Kojonup(Þ)	S	SVS	MSS	VS	MS	MT	S	SVS	S
Kowari(Þ)	S	SVS	S	S	S	I	S	S	S
Kultarr(Þ)	SVS	R	MSS	MRMS	S (P)	MI (P)	MS	MSS	SVS
Minnie(Þ)	SVS	R	S	RMR	MS	MI	S	S	VS
Mitika(Þ)	MSS	S	SVS	VS	S	MT	SVS	S	S
Mulgara(Þ)	S	MR	MSS	R	MR	MT	S/MS	MSS	SVS
Tungoo(Þ)	S	MR	MSS	MR	R	MT	MRMS#	MSS	MRMS
Wallaby(Þ)	SVS	R	MSS	MR	S (P)	MI (P)	MSS	MSS	SVS
Wandering	SVS	SVS	S	VS	S	MT	S	S	S
Williams(Þ)	S	MRMS	MSS	VS	S	MI	MSS	MSS	MS
Wintaroo	S	S	MS	R	MR	MT	MS#	MSS	S
Yallara(Þ)	S	MRMS	MSS	R	MS	MI	MSS	S	SVS

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

CANOLA

New canola varieties

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

Variety	Breeding company	End point royalty* ($)	Comments supplied by breeding company[1]
DG Buller G	Nutrien Ag Solutions Ltd	N/A	DG Buller G will be available to growers in 2025. It is a 5 series, Optimum GLY® hybrid. DG Buller G is medium height with good standability. It has good oil content.
InVigor® LR 3540P	BASF Australia Ltd	N/A	InVigor® LR 3540P is an early maturing hybrid with PodGuard®. InVigor® LR 3540P contains dual herbicide tolerance to Liberty® and Truflex®. InVigor® LR 3540P combines the flexibility of PodGuard® and dual herbicide tolerance with early maturity. InVigor® LR 3540P is suited to lower-rainfall and shorter-season areas.
InVigor® LR 5040P	BASF Australia Ltd	N/A	InVigor® LR5040P is a mid-season hybrid with PodGuard®. InVigor® LR5040P contains dual herbicide tolerance to Liberty® and Truflex®. InVigor® LR5040P combines the flexibility of PodGuard® and dual herbicide tolerance with high yield and oil results. InVigor® LR5040P is suited to mid-season growing regions.
Nuseed® Griffon TTI	Nuseed Pty Ltd	N/A	Nuseed® Griffon TTI is Nuseed's first dual-herbicide hybrid canola, with triazine and IMI tolerance for flexible, effective crop protection. It is an early-mid maturing variety ideal for target yield environments of 0.5 to 3t/ha, which ensures fast pod development to safeguard yield. Commercial release in 2025. Rapid pod development for higher yields and a shorter growing season.
Pioneer® PY323G	Pioneer	N/A	Pioneer® PY323G (coded AA1421G) is an early maturing Optimum GLY® hybrid variety. Suited to early and early-mid season growing regions, it is medium in height. First tested in NVT 2023. Marketed by Pioneer Seeds.
Pioneer® PY327C	Pioneer	N/A	Pioneer® PY327C (coded AA0424I) is an early maturing Clearfield® hybrid suited to medium to high rainfall zones. It has mid-fast phenology and a medium-tall plant height. First tested in NVT 2023. Marketed by Pioneer Seeds.
Pioneer® PY422G	Pioneer	N/A	Pioneer® PY422G (coded AA1418G) is an early-mid maturing Optimum GLY® hybrid suited to early-mid and mid-season growing regions with medium height. First tested in NVT 2023. Marketed by Pioneer Seeds.
Pioneer® PY424GC	Pioneer	N/A	Pioneer® PY424GC (coded WW1958W) is an early-mid maturing combination Optimum GLY® and Clearfield® hybrid suited to early and early-mid season growing regions. It has medium height. First tested in NVT 2023. Marketed by Pioneer Seeds.
Pioneer® PY428R	Pioneer	N/A	Pioneer® PY428R (coded D257-18) is an early-mid maturing Roundup Ready® hybrid suited to early and early-mid season growing regions and is medium in height. First tested in NVT 2023. Marketed by Pioneer Seeds.
Pioneer® PY429T	Pioneer	N/A	Pioneer® PY429T (coded AA902T) is a widely adapted early-mid maturing triazine-tolerant hybrid. Best suited to medium to medium-high rainfall zones. Medium plant height. First tested in NVT 2023. Marketed by Pioneer Seeds.
Pioneer® PY432T	Pioneer	N/A	Variety description not supplied.

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

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

Canola variety yield performance – Mallee South Australia and Victoria

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

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

Table 1: Birchip low-med rainfall GLY.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.71		2.55	2.75	2.05
InVigor® R 4520P	107	Trial failed	109	109	106
InVigor® LR 4540P			107	108	111
Nuseed® Hunter TF			106	107	112
Pioneer® PY428R					104
Pioneer® PY424GC				105	105
Pioneer® 44Y27 RR	103		102	104	105
InVigor® LR 3540P			100	103	99
Hyola® Regiment XC				100	103
DG Buller G					98
Nuseed® Emu TF	101		94	98	101
Sowing date	**22 Apr**	**10 May**	**21 Apr**	**11 May**	**12 May**
Rainfall J–M (mm)	**101**	**25**	**60**	**23**	**69**
Rainfall A–O (mm)	**205**	**172**	**384**	**118**	**146**

Special thanks to 2024 trial cooperator.
Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Regiment XC, Pioneer® PY424GC.
Learn more via the NVT Long Term Yield Reporter

Table 2: Hopetoun low-med rainfall GLY.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.13		3.94	1.14	
InVigor® LR 4540P		Trial failed	108	110	Compromised trial
Nuseed® Hunter TF			106	115	
InVigor® R 4520P	105		108	102	
InVigor® LR 5040P				98	
Pioneer® 44Y30 RR			103	110	
Hyola® Regiment XC				114	
Pioneer® 44Y27 RR	103		103	98	
Pioneer® PY424GC				96	
InVigor® R 4022P	101		102	93	
Pioneer® PY323G				106	
Sowing date	**24 Apr**	**25 May**	**26 Apr**	**24 Apr**	**30 May**
Rainfall J–M (mm)	**119**	**31**	**43**	**30**	**78**
Rainfall A–O (mm)	**232**	**168**	**360**	**161**	**100**

Special thanks to 2024 trial cooperator.
Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Regiment XC, Pioneer® PY424GC.
Learn more via the NVT Long Term Yield Reporter

Table 3: Lameroo low-med rainfall GLY.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)			2.09		
InVigor® R 4520P	No trial	Trial failed	117	Trial failed	Trial failed
InVigor® LR 4540P			114		
Nuseed® Hunter TF			111		
InVigor® LR 3540P			110		
Pioneer® 44Y27 RR			109		
InVigor® R 4022P			106		
Pioneer® 44Y30 RR			99		
Nuseed® Emu TF			98		
Nuseed® Raptor TF			97		
Hyola® Battalion XC			86		
Sowing date		**25 May**	**3 May**	**27 Apr**	**31 May**
Rainfall J–M (mm)		**52**	**30**	**36**	**35**
Rainfall A–O (mm)		**149**	**302**	**194**	**140**

Special thanks to 2024 trial cooperator.
Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Regiment XC, Pioneer® PY424GC.
Learn more via the NVT Long Term Yield Reporter

Table 4: Birchip low-med rainfall IMI.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.49		2.51	2.70	2.00
Pioneer® PY421C		Trial failed		115	117
Pioneer® 44Y94 CL			111	111	113
Pioneer® PY327C				106	106
Pioneer® 44Y90 CL	103				
Hyola® Continuum CL			103	101	
Hyola® Equinox CL			99		
Hyola® Solstice CL				98	103
Pioneer® 43Y92 CL	99		101	101	102
Nuseed® Ceres IMI			96	99	106
VICTORY® V7002CL	89				
Sowing date	**22 Apr**	**10 May**	**21 Apr**	**24 Apr**	**12 May**
Rainfall J–M (mm)	**101**	**25**	**60**	**23**	**69**
Rainfall A–O (mm)	**205**	**172**	**384**	**118**	**146**

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

Table 5: Hopetoun low-med rainfall IMI.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.03		3.76	1.37	
Pioneer® PY421C		Trial failed		121	Compromised trial
Pioneer® 44Y94 CL			111	113	
Pioneer® PY327C				106	
Hyola® Equinox CL			95		
Pioneer® 44Y90 CL	103				
Hyola® Continuum CL			101	109	
Hyola® Solstice CL				115	
Pioneer® 43Y92 CL	99		101	104	
Nuseed® Ceres IMI			98	106	
VICTORY® V7002CL	90				
Sowing date	**24 Apr**	**25 May**	**26 Apr**	**24 Apr**	**30 May**
Rainfall J–M (mm)	**119**	**31**	**43**	**30**	**78**
Rainfall A–O (mm)	**232**	**168**	**360**	**161**	**100**

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

Table 6: Lameroo low-med rainfall IMI.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)			2.14	1.58	
Pioneer® PY421C	Trial results below standard	Trial failed		102	Trial failed
Pioneer® 44Y94 CL			117	99	
Pioneer® PY327C				101	
Hyola® Solstice CL				116	
Nuseed® Ceres IMI			98	106	
Hyola® Equinox CL			93		
Hyola® Continuum CL			100	101	
Pioneer® 43Y92 CL			100	100	
Sowing date	**28 Apr**	**25 May**	**3 May**	**27 Apr**	**31 May**
Rainfall J–M (mm)	**56**	**52**	**30**	**36**	**35**
Rainfall A–O (mm)	**241**	**149**	**302**	**194**	**140**

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

Table 7: Birchip low-med rainfall TT.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.48		2.30	2.77	1.73
Hyola® Blazer TT	107	Trial failed		110	115
HyTTec® Velocity			104	108	117
HyTTec® Trident	105		106	109	117
HyTTec® Trophy	103		108	107	114
Hyola® Defender CT			109	106	105
InVigor® LT 4530P	102		105	106	104
Renegade TT(ф)			103	104	97
RGT Capacity TT	103		101	102	105
InVigor® T 4511			102	102	107
DG Bidgee TT(ф)			104	101	91
Sowing date	**22 Apr**	**10 May**	**21 Apr**	**25 Apr**	**12 May**
Rainfall J–M (mm)	**101**	**25**	**60**	**23**	**69**
Rainfall A–O (mm)	**205**	**172**	**384**	**118**	**146**

Special thanks to 2024 trial cooperator.
Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Defender CT, Nuseed® Griffon TTI.
Learn more via the NVT Long Term Yield Reporter

Table 8: Hopetoun low-med rainfall TT.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.19		3.70	1.02	
Pioneer® PY429T		Trial failed		119	Compromised trial
Hyola® Blazer TT	105			124	
HyTTec® Trophy	104		107	121	
HyTTec® Trident	106		107	113	
HyTTec® Velocity	109		103	117	
Hyola® Defender CT			107	109	
Hyola® Enforcer CT	98		101	125	
InVigor® T 4510	102		104	104	
Nuseed® Griffon TTI				116	
RGT Capacity TT	103		100	113	
Sowing date	**24 Apr**	**25 May**	**26 Apr**	**24 Apr**	**30 May**
Rainfall J–M (mm)	**119**	**31**	**43**	**30**	**78**
Rainfall A–O (mm)	**232**	**168**	**360**	**161**	**100**

Special thanks to 2024 trial cooperator.
Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Defender CT, Nuseed® Griffon TTI.
Learn more via the NVT Long Term Yield Reporter

Table 9: Lameroo low-med rainfall TT.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)			**1.89**		
HyTTec® Trident	Trial results below standard	Trial failed	117	Trial failed	Trial failed
InVigor® LT 4530P			115		
HyTTec® Velocity			114		
HyTTec® Trophy			112		
Hyola® Defender CT			111		
Renegade TT(l)			111		
InVigor® T 4510			110		
InVigor® T 4511			102		
RGT Capacity TT			101		
Bandit TT(l)			99		
Sowing date	**28 Apr**	**25 May**	**3 May**	**27 Apr**	**31 May**
Rainfall J–M (mm)	**56**	**52**	**30**	**36**	**35**
Rainfall A–O (mm)	**241**	**149**	**302**	**194**	**140**

Special thanks to 2024 trial cooperator.
Yield performance of 'stacked' varieties with tolerances to multiple herbicide systems should not be compared to varieties in trials where the variety has not specifically been tested, even for the same location. The following varieties were included in this trial, but have not been tested in other herbicide trials at this location: Hyola® Defender CT, Nuseed® Griffon TTI.
Learn more via the NVT Long Term Yield Reporter

Australian canola variety disease ratings

The following table contains varietal ratings for blackleg disease of canola.
These ratings are updated twice a year by crop pathologists and were released in autumn 2025.

Table 10: Canola disease guide – autumn 2025 ratings and resistance groups.

Variety	2025 autumn blackleg rating			2025 upper canopy infection blackleg rating	Type	Major gene resistance group of cultivar
	Bare	Fluopyram (e.g. ILeVo®)	Pydiflumetofen (e.g. Saltro®)			
CONVENTIONAL VARIETIES						
Outlaw(ф)	RMR	R	R	MR-UCI	Open pollinated	A
Nuseed® Diamond	RMR	R	R	MR-UCI	Hybrid	ABF
Nuseed® Quartz	MR			MR-UCI	Hybrid	ABD
TRIAZINE-TOLERANT VARIETIES						
Pioneer® PY429T	R		R	R-UCI	Hybrid, Triazine	ABH
HyTTec® Trifecta	R			MR-UCI	Hybrid, Triazine	ABD
DG Bidgee TT(ф)	R	R	R	R-UCI	Open pollinated, Triazine	H
HyTTec® Trident	R			MR-UCI	Hybrid, Triazine	AD
HyTTec® Trophy	R	R	R	MR-UCI	Hybrid, Triazine	AD
DG Torrens TT(ф)	RMR			R-UCI	Open pollinated, Triazine	H
Monola® H524TT	RMR			MR-UCI	High stability oil, hybrid, Triazine	AD
Hyola® Blazer TT	RMR		R	MR-UCI	Hybrid, Triazine	ADF
Monola® H421TT	RMR			MR-UCI	High stability oil, hybrid, Triazine	BC
InVigor® T 4511	RMR	R		MR-UCI	Hybrid, Triazine	Unknown
ATR-Bluefin(ф)	RMR			MR-UCI	Open pollinated, Triazine	AB
Renegade TT(ф)	MR	R	R	MR-UCI	Open pollinated, Triazine	A
SF Spark™ TT	MR	R	R	MR-UCI	Hybrid, Triazine	ABDS
HyTTec® Velocity	MR			MR-UCI	Hybrid, Triazine	AB
Monola® 422TT	MR			MR-UCI	High stability oil, open pollinated, Triazine	BC
DG Avon TT(ф)	MR		R	MR-UCI	Open pollinated, Triazine	AC
SF Dynatron™ TT	MRMS	R	R	MRMS-UCI	Hybrid, Triazine	BC
ATR-Swordfish(ф)	MRMS			MRMS-UCI	Open pollinated, Triazine	AB
RGT Baseline™ TT	MRMS	RMR	R	MRMS-UCI	Hybrid, Triazine	B
Bandit TT(ф)	MRMS	RMR	R	MRMS-UCI	Open pollinated, Triazine	A
RGT Capacity™ TT	MRMS	RMR	R	MRMS-UCI	Hybrid, Triazine	B
ATR-Bonito(ф)	MS	MR	RMR	MS-UCI	Open pollinated, Triazine	A
IMIDAZOLINONE-TOLERANT VARIETIES						
Captain CL	R			R-UCI	Winter, hybrid, Clearfield®	AH
Hyola® Solstice CL	R		R	R-UCI	Hybrid, Clearfield®	ADFH
Hyola® Feast CL	R		R	R-UCI	Winter, hybrid, Clearfield®	H
Phoenix CL	R			MR-UCI	Winter, hybrid, Clearfield®	B
Hyola® 970CL	R		R	R-UCI	Winter, hybrid, Clearfield®	H
RGT Nizza™ CL	R			MR-UCI	Winter, hybrid, Clearfield®	B
Pioneer® PN526C	R		R	MR-UCI	High stability oil, hybrid, Clearfield®	ABD
Pioneer® PY327C	R		R	MR-UCI	Hybrid, Clearfield®	AB
RGT Clavier™ CL	R			R-UCI	Winter, hybrid, Clearfield®	ACH
Pioneer® 45Y95 CL	RMR			MR-UCI	Hybrid, Clearfield®	C
Pioneer® PY421C	RMR		R	MR-UCI	Hybrid, Clearfield®	A
Nuseed® Ceres IMI	RMR			MR-UCI	Hybrid, Imidazolinone	AD
Pioneer® 43Y92 CL	RMR	R	R	MR-UCI	Hybrid, Clearfield®	B
VICTORY® V75-03CL	RMR	R		MR-UCI	High stability oil, hybrid, Clearfield®	AB
Pioneer® 44Y94 CL	RMR			MR-UCI	Hybrid, Clearfield®	BC

Continued on next page

Table 10: Canola disease guide – autumn 2025 ratings and resistance groups (continued).

Variety	2025 autumn blackleg rating			2025 upper canopy infection blackleg rating	Type	Major gene resistance group of cultivar
	Bare	Fluopyram (e.g. ILeVo®)	Pydiflumetofen (e.g. Saltro®)			
IMIDAZOLINONE AND TRIAZINE-TOLERANT VARIETIES						
Hyola® Defender CT	R		R	MR-UCI	Hybrid, Clearfield®, Triazine	ADF
Pioneer® PY520 TC	RMR		R	MR-UCI	Hybrid, Clearfield®, Triazine	BC
Nuseed® Griffon TTI	RMR			MR-UCI	Hybrid, Imidazolinone, Triazine	AC
GLYPHOSATE-TOLERANT VARIETIES						
DG Hotham TF	R			R-UCI	Hybrid, TruFlex®	ABH
Nuseed® Raptor TF	R			MR-UCI	Hybrid, TruFlex®	AD
Nuseed® Eagle TF	R			MR-UCI	Hybrid, TruFlex®	ABD
VICTORY® V55-04TF	R	R		MR-UCI	High stability oil, hybrid, TruFlex®	AB
DG Lofty TF	R			R-UCI	Hybrid, TruFlex®	ABH
Nuseed® Hunter TF	RMR			MR-UCI	Hybrid, TruFlex®	AB
Pioneer® PY422G	RMR		R	MR-UCI	Hybrid, Optimum GLY®	AB
Pioneer® 44Y27 RR	RMR	R	R	MR-UCI	Hybrid, Roundup Ready®	B
DG Buller G	RMR			R-UCI	Hybrid, Optimum GLY®	H
Nuseed® Emu TF	MR			MR-UCI	Hybrid, TruFlex®	AB
Pioneer® PY525G	MR		R	MR-UCI	Hybrid, Optimum GLY®	AB
Pioneer® PY323G	MR		R	MR-UCI	Hybrid, Optimum GLY®	BC
Pioneer® PY428R	MR		R	MR-UCI	Hybrid, Roundup Ready®	B
InVigor® R 4520P	MRMS	R		MRMS-UCI	Hybrid, Truflex®	B
GLYPHOSATE AND IMIDAZOLINONE-TOLERANT VARIETIES						
Hyola® Regiment XC	R	R	R	R-UCI	Hybrid, TruFlex®, Clearfield®	ADFH
Pioneer® PY424GC	MR		R	MR-UCI	Hybrid, TruFlex®, Clearfield®	BC
GLUFOSINATE AND TRIAZINE-TOLERANT VARIETIES						
InVigor® LT 4530P	RMR	R		MR-UCI	Hybrid, LibertyLink®, Triazine	BF
GLUFOSINATE AND GLYPHOSATE-TOLERANT VARIETIES						
InVigor® LR 4540P	RMR	R		MR-UCI	Hybrid, LibertyLink®, TruFlex®	B
InVigor® LR 5040P	RMR	R		MR-UCI	Hybrid, LibertyLink®, TruFlex®	AB
InVigor® LR 3540P	MR	R		MR-UCI	Hybrid, LibertyLink®, TruFlex®	AB

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, UCI = upper canopy infection.
Please check updated ratings using the Blackleg Management Guide or the NVT Disease Ratings.

CHICKPEA

Chickpea variety yield performance – Mallee South Australia and Victoria

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

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

Table 1: Birchip desi chickpea.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.11	2.11		1.71	1.36
PBA Striker(Φ)	101	103	Trial failed	117	91
PBA Slasher(Φ)	103	102		111	91
Neelam(Φ)	102	101		108	93
CBA Captain(Φ)	95	101		103	106
PBA Maiden	101	98		105	89
Sowing date	**14 May**	**20 May**	**10 May**	**16 May**	**21 May**
Rainfall J–M (mm)	**101**	**25**	**60**	**23**	**69**
Rainfall A–O (mm)	**205**	**172**	**384**	**118**	**146**

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

Table 2: Rainbow desi chickpea.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	1.56	1.41	1.72	2.36	
PBA Striker(Φ)	102	108	109	106	Compromised trial
PBA Slasher(Φ)	103	104	108	104	
Neelam(Φ)	103	102	105	101	
PBA Maiden	103	96	104	101	
CBA Captain(Φ)	97	106	97	104	
PBA Seamer(Φ)			92		
Sowing date	**23 May**		**20 May**	**16 May**	**30 May**
Rainfall J–M (mm)	**88**	**51**	**76**	**33**	**69**
Rainfall A–O (mm)	**253**	**205**	**421**	**198**	**125**

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

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

Table 3: Birchip kabuli chickpea.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.17	2.23		1.88	1.17
PBA Royal(Ф)	99	101	Trial failed	97	111
Genesis® 090	101	100		95	104
PBA Monarch(Ф)	103	97		97	87
Almaz(Ф)	98			92	
PBA Magnus(Ф)	94	96		93	99
Genesis® Kalkee	99	89			
Sowing date	**14 May**	**20 May**	**10 May**	**16 May**	**21 May**
Rainfall J–M (mm)	**101**	**25**	**60**	**23**	**69**
Rainfall A–O (mm)	**205**	**172**	**384**	**118**	**146**

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

Table 4: Rainbow kabuli chickpea.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	1.47	1.38	1.39	2.18	
PBA Monarch(Ф)	103	91	104	98	Compromised trial
PBA Royal(Ф)	99	102	95	98	
Genesis® 090	99	98	98	98	
PBA Magnus(Ф)	96	93		100	
Almaz(Ф)	99		93	97	
Genesis® Kalkee	101	74	89		
Sowing date	**23 May**	**18 May**	**20 May**	**16 May**	**30 May**
Rainfall J–M (mm)	**88**	**51**	**76**	**33**	**69**
Rainfall A–O (mm)	**253**	**205**	**421**	**198**	**125**

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

Chickpea variety disease ratings – South Australia and Victoria

The following table contains varietal ratings for the predominant diseases of chickpea in South Australia and Victoria. These ratings are updated annually by crop pathologists and were released in March 2025.

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

Table 5: Chickpea disease guide for South Australia and Victoria.

Variety	Ascochyta blight (pathogen group 1 – south)	2022-23 Phytophthora root rot	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)
DESI				
CBA Captain(Ф)	S	S	MR	MS
Genesis® 836	S		MR	MS
Kyabra(Ф)	VS	VS	MRMS	S
Neelam(Ф)	S		MRMS	MS
PBA Boundary(Ф)	S	VS	RMR	MRMS
PBA Drummond(Ф)	VS	VS	MR	MRMS
PBA HatTrick(Ф)	S	S	MRMS	MRMS
PBA Maiden	S		MRMS	MRMS
PBA Pistol(Ф)	S		RMR	MRMS
PBA Seamer(Ф)	S	S	MRMS	MRMS
PBA Slasher(Ф)	S		MRMS	MRMS
PBA Striker(Ф)	S		MRMS	MRMS
KABULI				
Almaz(Ф)	S		MRMS	S
Genesis® 090	MS		MRMS	MS
Genesis® Kalkee	S		MRMS	MS
PBA Magnus(Ф)	S		MRMS	MSS
PBA Monarch(Ф)	S		MRMS	MS
PBA Royal(Ф)	MS		MR (P)	MS

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

FABA BEAN

Faba bean variety yield performance – Mallee South Australia and Victoria

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

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

Table 1: Lameroo faba bean.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)			4.68		
PBA Zahra(ϕ)	Trial failed	Compromised trial	106	Compromised trial	Trial failed
PBA Amberley(ϕ)			105		
PBA Samira(ϕ)			105		
Farah			101		
PBA Bendoc(ϕ)*			99		
Nura			98		
PBA Marne(ϕ)			98		
Fiesta VF			98		
PBA Rana			91		
Sowing date	**28 Apr**	**25 May**	**16 May**	**4 May**	**31 May**
Rainfall J–M (mm)	**56**	**52**	**30**	**37**	**23**
Rainfall A–O (mm)	**241**	**149**	**302**	**201**	**133**

Special thanks to 2024 trial cooperator, Andy Hun and Lou Flohr.

* herbicide-tolerant variety. Learn more via the NVT Long Term Yield Reporter

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

Faba bean variety disease ratings – South Australia and Victoria

The following table contains varietal ratings for the predominant diseases of faba bean in South Australia and Victoria. These ratings are updated annually by crop pathologists and were released in March 2025.

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

Table 2: Faba bean disease guide for South Australia and Victoria.

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

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

FIELD PEA

Field pea variety yield performance – Mallee South Australia and Victoria

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

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

Table 1: Birchip field pea.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.73	2.81		2.74	1.66
APB Bondi[Φ]	107	107	Trial failed	111	107
PBA Butler[Φ]		109		115	
PBA Taylor[Φ]	106	106		106	112
PBA Noosa[Φ]	104	103		103	106
Kaspa	102	105		106	99
PBA Pearl	106	101		104	97
PBA Gunyah[Φ]		100		100	100
PBA Wharton[Φ]	98	98		96	110
PBA Percy	101	98		97	92
PBA Oura[Φ]	98	96		94	101
Sowing date	**14 May**	**20 May**	**10 May**	**16 May**	**21 May**
Rainfall J–M (mm)	**101**	**25**	**60**	**23**	**69**
Rainfall A–O (mm)	**205**	**172**	**384**	**118**	**146**

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

Table 2: Lameroo field pea.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)		1.63	3.85	1.98	
PBA Pearl	Trial failed	104	116	112	Trial failed
PBA Butler[Φ]		101	115	110	
APB Bondi[Φ]		106	107	115	
PBA Taylor[Φ]		105	102	108	
PBA Noosa[Φ]		103	104	105	
PBA Percy		98	108	94	
Kaspa		100	101	100	
PBA Gunyah[Φ]		100	101	98	
PBA Oura[Φ]		100	99	97	
PBA Wharton[Φ]		102	92	99	
Sowing date	**18 May**	**3 Jun**	**16 May**	**4 May**	**31 May**
Rainfall J–M (mm)	**56**	**52**	**30**	**37**	**23**
Rainfall A–O (mm)	**241**	**149**	**302**	**201**	**133**

Special thanks to 2024 trial cooperator, Andy Hunt and Lou Flohr.
Learn more via the NVT Long Term Yield Reporter

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

Table 3: Ouyen field pea.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.05		3.26	2.11	
APB Bondi[Ф]	111	Compromised trial	122	115	No trial
PBA Butler[Ф]			120	110	
PBA Taylor[Ф]	104		111	111	
PBA Pearl	110		112	103	
PBA Noosa[Ф]	103		106	106	
Kaspa	100		105	105	
PBA Wharton[Ф]	99		97	102	
PBA Gunyah[Ф]			97	99	
PBA Oura[Ф]	98		92	94	
PBA Percy	96		89	90	
Sowing date	**12 May**	**25 May**	**10 May**	**12 May**	
Rainfall J–M (mm)	**50**	**25**	**89**	**41**	
Rainfall A–O (mm)	**277**	**157**	**387**	**196**	

No 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 4: Rainbow field pea.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	1.12	2.61	3.06	2.87	
APB Bondi[Ф]	109	112	116	110	No trial
PBA Pearl	109	98	124	108	
PBA Butler[Ф]		110	116	111	
PBA Taylor[Ф]	110	110	102	106	
PBA Noosa[Ф]	107	104	104	104	
Kaspa	96	107	97	103	
PBA Gunyah[Ф]		99	97	100	
PBA Wharton[Ф]	107	101	94	97	
PBA Oura[Ф]	103	93	98	97	
PBA Percy	98	91	97	99	
Sowing date	**22 May**	**18 May**	**20 May**	**16 May**	
Rainfall J–M (mm)	**88**	**51**	**76**	**33**	
Rainfall A–O (mm)	**253**	**205**	**421**	**198**	

No 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 5: Ultima field pea.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	1.06	1.49		1.75	
PBA Pearl	151	98	Trial failed	104	Compromised trial
PBA Butler[Ф]		109		116	
APB Bondi[Ф]	108	110		113	
PBA Noosa[Ф]	104	105		105	
PBA Taylor[Ф]	90	110		109	
Kaspa	80	107		107	
PBA Percy	116	94		95	
PBA Gunyah[Ф]		100		100	
PBA Oura[Ф]	113	94		93	
PBA Wharton[Ф]	91	100		97	
Sowing date	**11 May**	**11 May**	**10 May**	**19 May**	**14 May**
Rainfall J–M (mm)	**47**	**29**	**63**	**34**	**84**
Rainfall A–O (mm)	**233**	**199**	**453**	**209**	**166**

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

Field pea variety disease ratings – South Australia and Victoria

The following table contains varietal ratings for the predominant diseases of field pea in South Australia and Victoria. These ratings are updated annually by crop pathologists and were released in March 2025.

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

Table 6: Field pea disease guide for South Australia and Victoria.

Variety	Bacterial blight	Downy mildew	Powdery mildew	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)
APB Bondi[Φ]	S	RMR (S)	RMR	RMR	MSS
GIA Kastar[Φ]	S	S	RMR	MR	MS
GIA Ourstar[Φ]	S (P)	S	S	MRMS	MS
Kaspa	S	S	S	RMR	MRMS
PBA Butler[Φ]	MS	S	S	RMR	MRMS
PBA Gunyah[Φ]	S	S	S	RMR	MRMS
PBA Noosa[Φ]	S	MS	S	RMR	MRMS
PBA Oura[Φ]	MS	S	S	MR	MRMS (P)
PBA Pearl	MS	S	S	MR	MRMS
PBA Percy	MRMS	S	S	RMR	RMR
PBA Taylor[Φ]	S	S	S	RMR	MRMS
PBA Twilight[Φ]	S	S	S	MR	MRMS
PBA Wharton[Φ]	S	S	R (S)	MR	MRMS

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

LENTIL

Lentil variety yield performance – Mallee South Australia and Victoria

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

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

From 2024, selected trials may be managed as imidazolinone (IMI) tolerant and will not include conventional varieties.

Table 1: Birchip lentil.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.19	2.78			1.22
GIA Lightning(Ф)*	106	107	Trial failed	Compromised trial	108
ALB Terrier(Ф)*		99			112
GIA Thunder(Ф)*	110	101			111
GIA Leader(Ф)*	108	97			105
PBA Hallmark XT(Ф)*	104	98			100
PBA Jumbo2(Ф)	101	98			103
PBA Hurricane XT(Ф)*	100	99			101
PBA Bolt(Ф)	94	105			97
PBA HighlandXT(Ф)*	97	101			97
PBA KelpieXT(Ф)*	87	96			92
Sowing date	**14 May**	**20 May**	**10 May**	**16 May**	**21 May**
Rainfall J–M (mm)	**101**	**25**	**60**	**23**	**69**
Rainfall A–O (mm)	**205**	**172**	**384**	**118**	**146**

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

Table 2: Lameroo lentil.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)			3.18	1.50	
GIA Thunder(Ф)*	Trial failed	Compromised trial	125	110	Trial failed
ALB Terrier(Ф)*			123	99	
PBA Jumbo2(Ф)			118	107	
PBA KelpieXT(Ф)*			102	110	
PBA Hallmark XT(Ф)*			107	96	
GIA Leader(Ф)*			108	90	
PBA Hurricane XT(Ф)*			102	99	
GIA Lightning(Ф)*			98	105	
PBA HighlandXT(Ф)*			97	105	
Nipper(Ф)			99	91	
Sowing date	**18 May**	**3 Jun**	**16 May**	**4 May**	**31 May**
Rainfall J–M (mm)	**56**	**52**	**30**	**37**	**23**
Rainfall A–O (mm)	**241**	**149**	**302**	**201**	**133**

Special thanks to 2024 trial cooperator, Andy Hunt and Lou Flohr.
* herbicide-tolerant variety.
Learn more via the NVT Long Term Yield Reporter

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

Table 3: Ouyen lentil.

Year	2020	2021	2022	2023	2024[1]
Mean yield (t/ha)			2.69	1.68	1.05
GIA Thunder(ↀ)*	No trial	Compromised trial	112	105	118
ALB Terrier(ↀ)*			110	106	118
GIA Lightning(ↀ)*			102	105	107
PBA Hallmark XT(ↀ)*			104	102	103
GIA Leader(ↀ)*				102	106
PBA Hurricane XT(ↀ)*				99	101
PBA HighlandXT(ↀ)*			100	100	97
PBA KelpieXT(ↀ)*			97	92	92
GIA Sire(ↀ)*			92	94	74
GIA Metro(ↀ)*			85	88	77
Sowing date		**25 May**	**10 May**	**12 May**	**14 May**
Rainfall J–M (mm)		**25**	**89**	**41**	**83**
Rainfall A–O (mm)		**157**	**387**	**196**	**124**

Special thanks to 2024 trial cooperator.
* herbicide-tolerant variety. [1] IMI-trial
Learn more via the NVT Long Term Yield Reporter

Table 4: Rainbow lentil.

Year	2020	2021	2022	2023	2024[1]
Mean yield (t/ha)	1.38		2.70	2.31	
GIA Thunder(ↀ)*	120	Compromised trial	140	105	Compromised trial
ALB Terrier(ↀ)*			135	105	
PBA Jumbo2(ↀ)	99		130	101	
GIA Lightning(ↀ)*	125		98	104	
GIA Leader(ↀ)*	96			101	
PBA Hallmark XT(ↀ)*	102		106	100	
PBA Hurricane XT(ↀ)*	94			100	
PBA HighlandXT(ↀ)*	104		96	99	
PBA KelpieXT(ↀ)*	77		111	96	
PBA Ace(ↀ)	98		88	102	
Sowing date	**22 May**	**18 May**	**20 May**	**16 May**	**30 May**
Rainfall J–M (mm)	**88**	**51**	**76**	**33**	**69**
Rainfall A–O (mm)	**253**	**205**	**421**	**198**	**125**

Special thanks to 2024 trial cooperator.
* herbicide-tolerant variety, [1] IMI-trial.
Learn more via the NVT Long Term Yield Reporter

Table 5: Ultima lentil.

Year	2020	2021	2022	2023	2024[1]
Mean yield (t/ha)	1.39		3.74	1.51	
GIA Thunder(ↀ)*	107	Compromised trial	135	108	Compromised trial
ALB Terrier(ↀ)*			131	113	
PBA Jumbo2(ↀ)	94		125	99	
GIA Leader(ↀ)*	94			109	
GIA Lightning(ↀ)*	119		99	107	
PBA Hallmark XT(ↀ)*	100		104	104	
PBA Hurricane XT(ↀ)*	95			100	
PBA Ace(ↀ)	98		96	109	
PBA HighlandXT(ↀ)*	104		95	96	
PBA KelpieXT(ↀ)*	81		107	84	
Sowing date	**11 May**	**11 May**	**10 May**	**19 May**	**14 May**
Rainfall J–M (mm)	**47**	**29**	**63**	**34**	**84**
Rainfall A–O (mm)	**233**	**199**	**453**	**209**	**166**

Special thanks to 2024 trial cooperator.
* herbicide-tolerant variety. [1] IMI-trial
Learn more via the NVT Long Term Yield Reporter

Lentil variety disease ratings – South Australia and Victoria

The following table contains varietal ratings for the predominant diseases of lentil in South Australia and Victoria. These ratings are updated annually by crop pathologists and were released in March 2025.

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

Table 6: Lentil disease guide for South Australia and Victoria.

Variety	Ascochyta blight (Pathotype 2 PBA Hurricane XTΦ virulent)	Ascochyta blight (Pathotype 1 NipperΦ virulent)	Botrytis grey mould	RLN resistance (*Pratylenchus neglectus*)	RLN resistance (*Pratylenchus thornei*)
IMI-TOLERANT					
ALB TerrierΦ	MR	R	MRMS	MRMS (P)	MRMS
GIA LeaderΦ	MR	MR	MRMS	MRMS (P)	MR (P)
GIA LightningΦ	MRMS (P)	R (P)	MS	MRMS (P)	MR (P)
GIA MetroΦ	RMR	MR	MRMS	MRMS	MRMS (P)
GIA SireΦ	MRMS (P)	R (P)	MS	MRMS	MRMS (P)
GIA ThunderΦ	MRMS (P)	R (P)	MRMS	MRMS	MR (P)
PBA Hallmark XTΦ	MRMS	RMR	MRMS	MR	MRMS
PBA HighlandXTΦ	MR	MR	MS	MRMS	MRMS
PBA Hurricane XTΦ	MRMS (P)	RMR	MS	MRMS	MRMS
PBA KelpieXTΦ	MRMS	MRMS	MS	MRMS	MRMS
CONVENTIONAL					
PBA BoltΦ	MRMS	MR	S	MR	MR
PBA Jumbo2Φ	RMR	R	MS	MR	MRMS

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

LUPIN

Lupin variety yield performance – Mallee South Australia and Victoria

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

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

Table 1: Halidon narrow-leaf lupin.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)					
	No trial	No trial	No trial	No trial	Compromised trial
Sowing date					14 Jun
Rainfall J–M (mm)					21
Rainfall A–O (mm)					124

Special thanks to 2024 trial cooperator, GM and JL Obst.

Table 2: Hopetoun narrow-leaf lupin.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	1.59	2.08	3.05	1.80	1.15
PBA Barlock[Ф]	110	99	109	118	112
PBA Bateman[Ф]	106	100	105	129	107
PBA Jurien[Ф]	109		107	113	110
PBA Gunyidi[Ф]	105		105	119	107
Jenabillup[Ф]	108		107	108	109
Coyote[Ф]	99	109	97	120	97
Wonga	102	85	106	114	105
Mandelup[Ф]	101	101	101	98	101
Rosemont[Ф]			97		99
Lawler[Ф]	97	106	96		96
Sowing date	24 Apr	25 May	5 May	24 Apr	30 May
Rainfall J–M (mm)	87	31	43	30	78
Rainfall A–O (mm)	225	168	360	161	100

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

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

Table 3: Lameroo narrow-leaf lupin.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	2.09		3.84	0.91	
PBA Jurien(Ф)	104	Trial failed	109	108	No trial
PBA Barlock(Ф)	106		106	109	
PBA Bateman(Ф)	104		101	129	
Rosemont(Ф)			109	101	
Coyote(Ф)	99		101	132	
Jenabillup(Ф)	104		105	101	
PBA Gunyidi(Ф)	103		101	117	
Gidgee(Ф)			105	95	
Lawler(Ф)	98		103	99	
Mandelup(Ф)	100		102	98	
Sowing date	**28 Apr**	**25 May**	**12 May**	**19 May**	
Rainfall J–M (mm)	**56**	**52**	**30**	**36**	
Rainfall A–O (mm)	**241**	**149**	**302**	**194**	

No 2024 trial cooperator.
Learn more via the NVT Long Term Yield Reporter

Table 4: Walpeup narrow-leaf lupin.

Year	2020	2021	2022	2023	2024
Mean yield (t/ha)	1.45		3.85		
PBA Barlock(Ф)	94	Trial results below standard	112	Trial results below standard	Compromised trial
PBA Jurien(Ф)	96		110		
Jenabillup(Ф)	97		109		
PBA Bateman(Ф)	92		107		
PBA Gunyidi(Ф)	94		106		
Quilinock	98		104		
Wonga	95		103		
Mandelup(Ф)	100		101		
Rosemont(Ф)			100		
Lawler(Ф)	103		97		
Sowing date	**28 Apr**	**25 May**	**5 May**	**27 Apr**	**16 May**
Rainfall J–M (mm)	**85**	**54**	**86**	**55**	**56**
Rainfall A–O (mm)	**247**	**189**	**444**	**228**	**137**

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

Lupin variety disease ratings – South Australia and Victoria

The following table contains varietal ratings for the predominant diseases of lupin in South Australia and Victoria. These ratings are updated annually by crop pathologists and were released in March 2025.

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

Table 5: Lupin disease guide for South Australia and Victoria.

Variety	Anthracnose	Bean yellow mosaic virus (BYMV)	Cucumber mosaic virus (CMV)	Phomopsis pod infection	Phomopsis stem infection	Sclerotinia stem rot
Coromup(Ф)	MRMS	S (P)	MR	S	MR	S (P)
Coyote(Ф)	MS	MR (P)	MRMS	MRMS	S	S (P)
Gidgee(Ф)	MRMS	S (P)	MRMS	S	MR	S (P)
Jenabillup(Ф)	MRMS		MRMS	MR	MS	S (P)
Lawler(Ф)	MS	MS (P)	MRMS	MS	MR	S (P)
Mandelup(Ф)	MRMS	S (P)	MRMS	S	MR	S (P)
PBA Barlock(Ф)	S	MS (P)	MRMS	MR	MR	S (P)
PBA Bateman(Ф)	MRMS	MR (P)	MR	S	RMR	S (P)
PBA Gunyidi(Ф)	MS	MS (P)	MRMS	MRMS	RMR	S (P)
PBA Jurien(Ф)	MS	MRMS (P)	MS	MRMS	RMR	S (P)
PBA Leeman(Ф)	MR	S (P)	MRMS	MRMS	MR	S (P)
Rosemont(Ф)	MRMS (P)	MRMS (P)	MR	MRMS	MR	S (P)
Wonga	MS	MS (P)	MR	MR	MR	S (P)

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

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