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GRAINS RESEARCH  
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# NVT HARVEST REPORT



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**NORTHERN VICTORIA**

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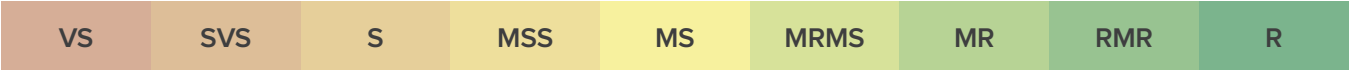
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## LEGEND: MEAN VARIETY YIELD PERFORMANCE



Variation from the annual site mean yield

## DISEASE RATING COLOUR RANGE



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

Refer to *2020 Victorian Crop Sowing Guide* for further information at [grdc.com.au/NVT-Victorian-Winter-Crop-Summary](http://grdc.com.au/NVT-Victorian-Winter-Crop-Summary)

# INTRODUCTION

This *NVT Harvest Report* provides information to support growers and advisers with decisions on variety selection for Northern 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 2019 and long-term yield performance of varieties of crop species suitable for production in Northern Victoria together with their quality and disease responses.

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

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

GRDC acknowledges that an ongoing project of this type would not be possible without the cooperation of growers prepared to contribute sites and who often assist with the management of trials on their property.

Refer to *2020 Victorian Crop Sowing Guide* for further information at [grdc.com.au/NVT-Victorian-Winter-Crop-Summary](http://grdc.com.au/NVT-Victorian-Winter-Crop-Summary).

## INTERPRETING LONG-TERM YIELD DATA

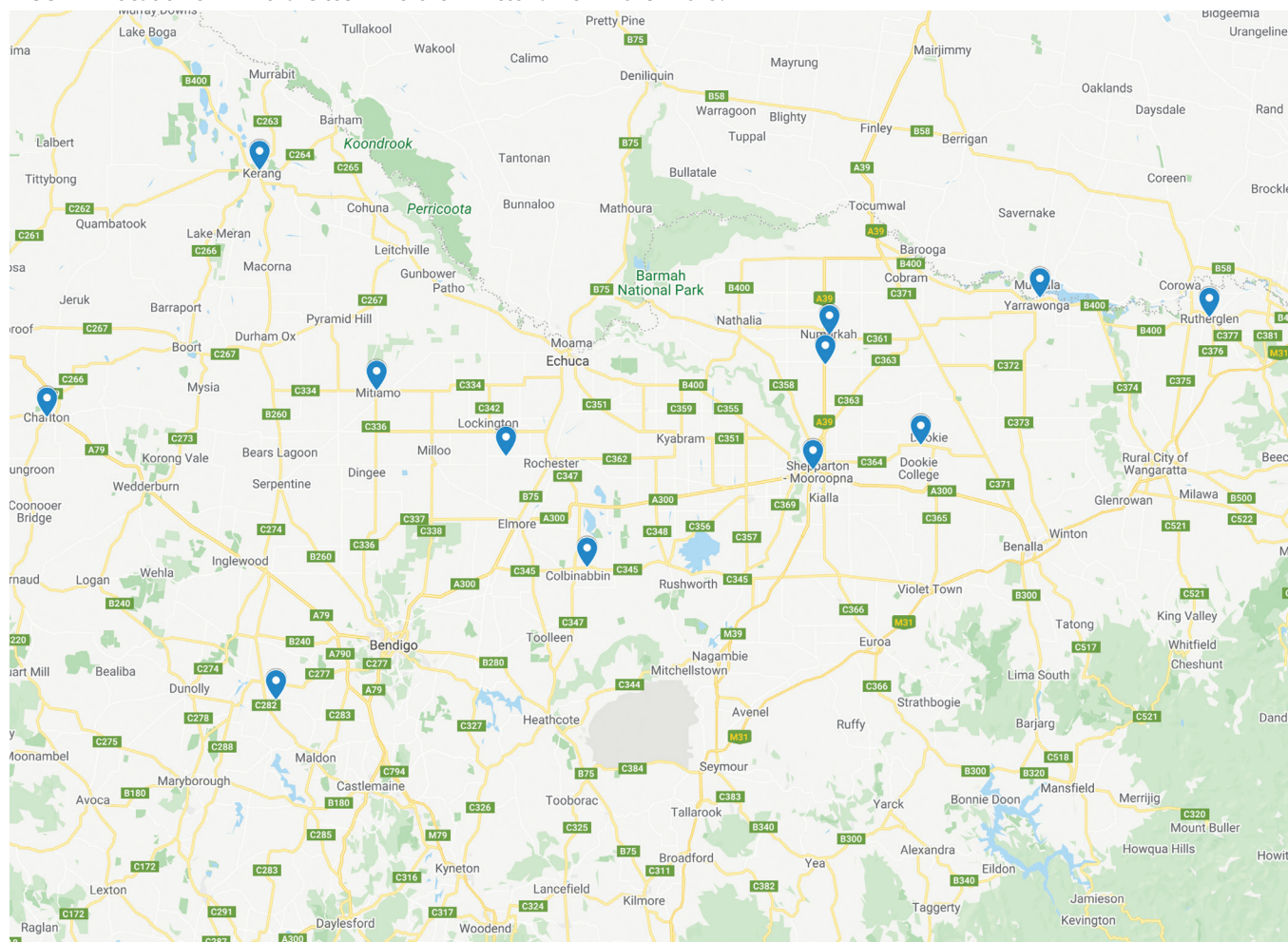
A factor analytic (FA) mixed model approach is used in the multi-environment trial (MET) analysis conducted by GRDC, supported by the Statistics for the Australian Grains Industry (SAGI) program. This approach generates long-term MET values for varieties at an individual trial level.

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

In this Northern Victoria Harvest Report, results are presented for yield and quality in year groupings for 2019 and the previous four years. Further detailed interrogation of the NVT Online dataset using the NVT Long Term Yield Reporting Tool will provide more specific performance data on all varieties of each crop species in each NVT location throughout Northern Victoria.

## NVT SITE LOCATIONS – NORTHERN VICTORIA 2015–2019

FIGURE 1 Location of NVT trial sites in Northern Victoria from 2015–2019.



SOURCE: NVT ONLINE

# WHEAT

## NEW WHEAT VARIETIES

The following information is for wheat varieties released during 2019 and since the 2020 Victorian Crop Sowing Guide was published.

Variety	Breeding company	End Point Royalty* (\$)	Comments supplied by breeding company
Catapult <sup>♢</sup>	Australian Grain Technologies	3.25	Longer season than Scepter <sup>♢</sup> , with a mid-late maturity allowing growers to achieve Scepter <sup>♢</sup> -like yields when sown in late April. Catapult <sup>♢</sup> has a very flexible sowing window with wide adaptation and is viewed as a great alternative to Trojan <sup>♢</sup> , Magenta <sup>♢</sup> , Cutlass <sup>♢</sup> and Yitpi <sup>♢</sup> . Catapult <sup>♢</sup> offers a unique combination of features to growers with Australian Hard quality (WA/SA/VIC/southern NSW).
EG Jet <sup>♢</sup>	Elders/Seedmark	n/a	Not supplied
LRPB Hellfire <sup>♢</sup>	LongReach Plant Breeders Pty Ltd	4.25	Not supplied
LRPB Parakeet <sup>♢</sup>	LongReach Plant Breeders Pty Ltd	3.75	Aimed at the 'Rosella' noodle markets in NSW and Victoria.
RockStar <sup>♢</sup>	InterGrain	3.50	High-yielding, mid-late flowering variety with a similar time to flowering as LRPB Trojan <sup>♢</sup> and Magenta <sup>♢</sup> . It has an AH classification in WA, SA and VIC and has a potential AH classification in southern NSW. The variety provides a large yield improvement within the mid-late flowering variety class. RockStar <sup>♢</sup> offers an opportunity to maximise sowing opportunities and spread flowering windows during critical spring stress periods. It has good Stem rust (MR), Yellow leaf spot (MRMS) and Stripe rust (RMR) resistance. It has a good grain size, good test weight and has a moderate plant height similar to Mace <sup>♢</sup> . RockStar <sup>♢</sup> is an excellent varietal alternative to LRPB Trojan <sup>♢</sup> , Magenta <sup>♢</sup> , Yitpi <sup>♢</sup> and Cutlass <sup>♢</sup> .

n/a not available, \* EPR amount is ex-GST, <sup>♢</sup> denotes Plant Breeder's Rights apply.

Refer to 2020 Victorian Crop Sowing Guide for further information at [grdc.com.au/NVT-Victorian-Winter-Crop-Summary](http://grdc.com.au/NVT-Victorian-Winter-Crop-Summary)

## WHEAT VARIETY YIELD PERFORMANCE – NORTHERN VICTORIA

The following tables contain yield results from the top-performing varieties within each NVT location in Northern Victoria for the past five seasons. Data is presented (as a percentage) for each variety relative to the mean trial yield for the location within each year. Varieties are listed in descending order of average yield over the period.

**TABLE 1 Charlton main season wheat.**

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)					5.08
Vixen <sup>db</sup>	No trial	No trial	Trial failed	Trial failed	120
Scepter <sup>db</sup>					119
RockStar <sup>db</sup>					118
Catapult <sup>db</sup>					115
Beckom <sup>db</sup>					114
Mace <sup>db</sup>					111
LRPB Arrow <sup>db</sup>					108
LRPB Havoc <sup>db</sup>					108
Corack <sup>db</sup>					105
LRPB Trojan <sup>db</sup>					105
CLEARFIELD® PLUS					
Sheriff CL Plus <sup>db</sup>					112
Razor CL Plus <sup>db</sup>					110
Chief CL Plus <sup>db</sup>					105
Sowing date			27 Apr	22 May	22 May
Rainfall J–M (mm)			82	22	36
Rainfall A–O (mm)			243	180	257

For more information click this [LINK](#)

**TABLE 3 Dookie main season wheat.**

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	2.69	7.06	4.04		2.95
Vixen <sup>Ⓢ</sup>			118	Trial failed	125
Scepter <sup>Ⓢ</sup>	117	105	115		122
RockStar <sup>Ⓢ</sup>					118
Beckom <sup>Ⓢ</sup>	117	104	114		115
Catapult <sup>Ⓢ</sup>					113
Tenfour <sup>Ⓢ</sup>					116
Mace <sup>Ⓢ</sup>	112	98	107		119
LRPB Havoc <sup>Ⓢ</sup>		96	108		122
Corack <sup>Ⓢ</sup>	110	98	109		116
LRPB Trojan <sup>Ⓢ</sup>	107	104	106		103
CLEARFIELD® PLUS					
Sheriff CL Plus <sup>Ⓢ</sup>					115
Razor CL Plus <sup>Ⓢ</sup>			108		118
Chief CL Plus <sup>Ⓢ</sup>					113
Sowing date	8 May	17 May	17 May	15 May	17 May
Rainfall J–M (mm)	76	130	82	50	50
Rainfall A–O (mm)	233	485	221	151	253

For more information click this [LINK](#)

The performance of varieties not listed within these tables can be found by further interrogation of the NVT website via the links below each table.

Error bars, normally used to compare data, can be viewed within the graph option also found via the website links below each table.

Rainfall is provided for January to March (J–M) and April to October (A–O).

**TABLE 2 Diggora main season wheat.**

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	1.14	8.65	4.45		2.27
Scepter <sup>db</sup>	125	108	108	Trial failed	121
Catapult <sup>db</sup>					115
RockStar <sup>db</sup>					119
Vixen <sup>db</sup>			105		120
Beckom <sup>db</sup>	100	105	107		108
Cobalt <sup>db</sup>	95	107	107		101
Tenfour <sup>db</sup>	108	104	102		111
LRPB Scout <sup>db</sup>	107	105	102		105
LRPB Impala <sup>db</sup>	115	104	103		102
Cosmick <sup>db</sup>	100	104	104		101
CLEARFIELD® PLUS					
Sheriff CL Plus <sup>db</sup>					115
Razor CL Plus <sup>db</sup>			100		114
Grenade CL Plus <sup>db</sup>	114	97	97		103
Sowing date	22 May	7 May	9 May	21 May	17 May
Rainfall J–M (mm)	56	67	130	44	35
Rainfall A–O (mm)	139	463	279	190	200

For more information click this [LINK](#)

**TABLE 4 Mitiamo main season wheat.**

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	1.73	5.99	2.58		1.58
Vixen <sup>db</sup>			118	Trial failed	139
Scepter <sup>db</sup>	112	108	120		137
RockStar <sup>db</sup>					133
Catapult <sup>db</sup>					129
LRPB Havoc <sup>db</sup>		100	114		129
Beckom <sup>db</sup>	107	108	114		103
Mace <sup>db</sup>	110	100	114		127
Tenfour <sup>db</sup>	107	104	113		113
Corack <sup>db</sup>	110	100	114		114
LRPB Arrow <sup>db</sup>	107	103	106		116
CLEARFIELD® PLUS					
Sheriff CL Plus <sup>db</sup>					127
Razor CL Plus <sup>db</sup>			115		128
Chief CL Plus <sup>db</sup>					112
Sowing date	20 May	20 May	9 May	29 May	20 May
Rainfall J–M (mm)	n/a	47	83	33	14
Rainfall A–O (mm)	n/a	437	245	148	183

n/a = Not available

For more information click this [LINK](#)

TABLE 5 Numurkah main season wheat.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	7.18	8.04	7.29		8.12
RGT Zanzibar		120	105	Trial failed	113
RockStar <sup>db</sup>					114
Catapult <sup>db</sup>					108
Scepter <sup>db</sup>	108	107	112		111
Vixen <sup>db</sup>			115		105
Beckom <sup>db</sup>	108	108	112		109
LRPB Cobra <sup>db</sup>	109	106	103		111
Cobalt <sup>db</sup>	107	110	107		100
LRPB Trojan <sup>db</sup>	106	107	106		104
Cutlass <sup>db</sup>	104	109	106		99
CLEARFIELD® PLUS					
Sheriff CL Plus <sup>db</sup>					109
Razor CL Plus <sup>db</sup>			105		105
Chief CL Plus <sup>db</sup>					101
Sowing date	1 May	28 Apr	8 May	30 Apr	30 Apr
Rainfall J–M (mm)	60	82	108	40	n/a
Rainfall A–O (mm)	170	498	234	145	n/a

n/a not available, trial supplementary irrigated each year

For more information click this [LINK](#)

TABLE 7 Yarrawonga main season wheat.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	2.90	5.44	3.59		3.79
Scepter <sup>db</sup>	113	105	109	Trial failed	115
Vixen <sup>db</sup>			108		113
Beckom <sup>db</sup>	109	107	106		107
RockStar <sup>db</sup>					110
Tenfour <sup>db</sup>					108
Catapult <sup>db</sup>					109
Corack <sup>db</sup>	108	98	105		107
Cutlass <sup>db</sup>	101	109	102		99
LRPB Trojan <sup>db</sup>	103	106	102		101
LRPB Scout <sup>db</sup>	99	106	102		103
CLEARFIELD® PLUS					
Sheriff CL Plus <sup>db</sup>					108
Razor CL Plus <sup>db</sup>			104		109
Chief CL Plus <sup>db</sup>					103
Sowing date	11 May	18 May	24 May	9 May	19 May
Rainfall J–M (mm)	120	125	88	47	24
Rainfall A–O (mm)	264	604	270	166	198

For more information click this [LINK](#)

TABLE 6 Wunghnu main season wheat.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	2.15	6.65	4.29		1.41
Vixen <sup>db</sup>			113	Trial failed	136
Scepter <sup>db</sup>	113	105	114		129
RockStar <sup>db</sup>					121
Catapult <sup>db</sup>					116
Beckom <sup>db</sup>	110	107	109		108
Tenfour <sup>db</sup>					119
LRPB Trojan <sup>db</sup>	105	107	103		95
Corack <sup>db</sup>	107	96	109		124
LRPB Havoc <sup>db</sup>		94	108		136
Mace <sup>db</sup>	104	96	107		129
CLEARFIELD® PLUS					
Sheriff CL Plus <sup>db</sup>					121
Razor CL Plus <sup>db</sup>			108		130
Chief CL Plus <sup>db</sup>					120
Sowing date	12 May	4 May	8 May	10 May	17 May
Rainfall J–M (mm)	71	82	108	40	5
Rainfall A–O (mm)	195	498	234	146	194

For more information click this [LINK](#)

TABLE 8 Rutherglen early season wheat.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	6.20		5.78	2.71	5.89
RockStar <sup>db</sup>		Trial failed			119
Catapult <sup>db</sup>				125	119
Scepter <sup>db</sup>				121	117
RGT Zanzibar			112	107	112
LRPB Beaufort <sup>db</sup>			113	101	114
Beckom <sup>db</sup>	107		109	120	112
LRPB Trojan <sup>db</sup>	107		107	116	110
Cutlass <sup>db</sup>	98		110	105	111
RGT Accroc	115		105	84	104
LRPB Phantom <sup>db</sup>	98		107	108	107
CLEARFIELD® PLUS					
Sheriff CL Plus <sup>db</sup>					109
Elmore CL Plus <sup>db</sup>	96		100	98	99
Sowing date	22 Apr	2 May	1 May	1 May	30 Apr
Rainfall J–M (mm)	94	106	7	63	n/a
Rainfall A–O (mm)	460	493	303	206	n/a

n/a = Not available

For more information click this [LINK](#)

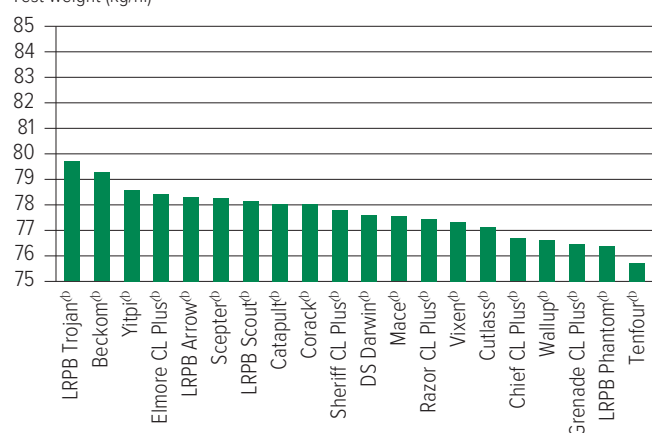
## WHEAT VARIETY QUALITY – VICTORIA

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 higher test weights, lower grain screenings or higher retentions under a wider range of environments. The following figures show the grain quality trends as histograms from 2018 and 2019 NVT averaged for all trials in Victoria. Only the varieties evaluated at every site are included.

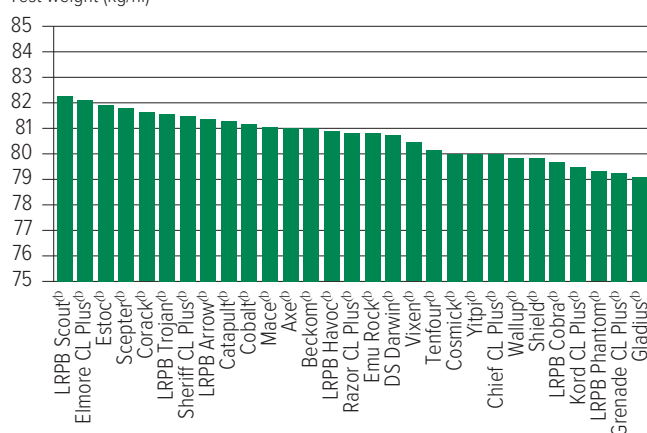
**FIGURE 1 Test weight (kg/hl) comparisons for main season wheat varieties from 15 NVT sites in Victoria 2019.**

Test weight (kg/hl)



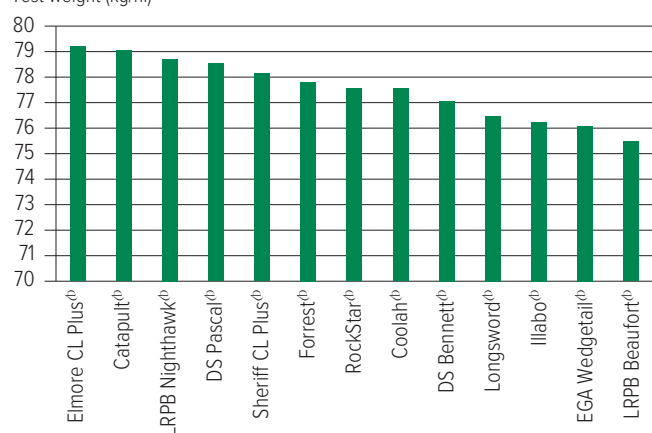
**FIGURE 2 Test weight (kg/hl) comparisons for main season wheat varieties from six NVT sites in Victoria 2018.**

Test weight (kg/hl)



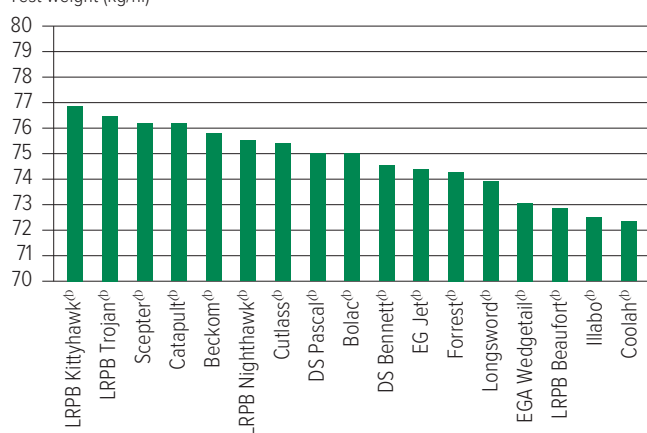
**FIGURE 3 Test weight (kg/hl) comparisons for early season wheat varieties from five NVT sites in Victoria 2019.**

Test weight (kg/hl)



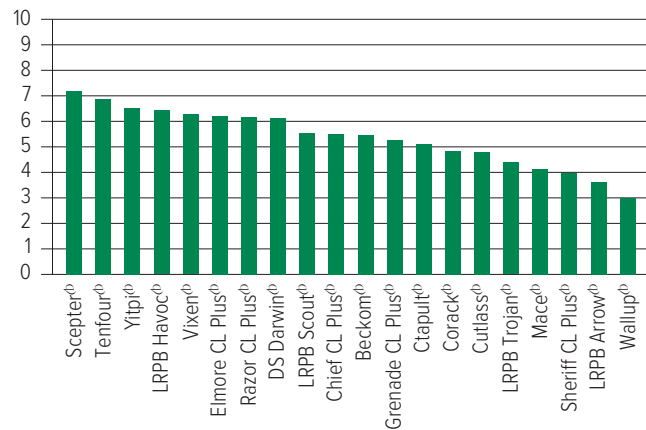
**FIGURE 4 Test weight (kg/hl) comparisons for early season wheat varieties from five NVT sites in Victoria 2018.**

Test weight (kg/hl)



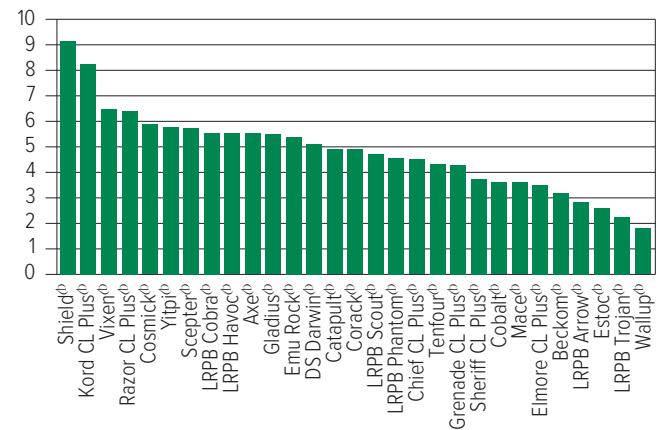
**FIGURE 5 Screenings (<2.0mm) comparisons for main season wheat varieties from 15 NVT sites in Victoria 2019.**

Screenings (% <2.0mm sieve)



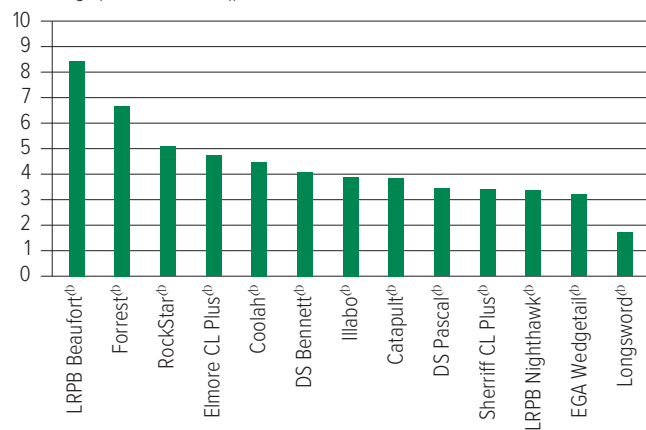
**FIGURE 6 Screenings (<2.0mm) comparisons for main season wheat varieties from six NVT sites in Victoria 2018.**

Screenings (% <2.0mm sieve)



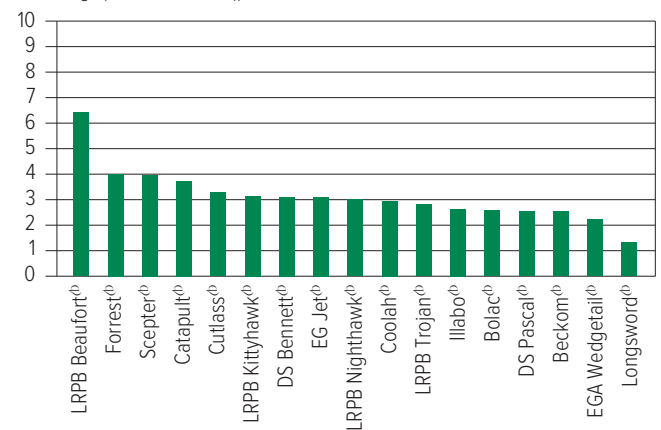
**FIGURE 7 Screenings (<2.0mm) comparisons for early season wheat varieties from five NVT sites in Victoria 2019.**

Screenings (% <2.0mm sieve)



**FIGURE 8 Screenings (<2.0mm) comparisons for early season wheat varieties from five NVT sites in Victoria 2018.**

Screenings (% <2.0mm sieve)



## WHEAT VARIETY DISEASE RATINGS – VICTORIA

The following table contains varietal ratings for the predominant diseases of wheat in Victoria. These ratings are updated annually by crop pathologists

and were released in March 2020. Selected varieties of most relevance to Victorian growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and susceptibility ratings.

**TABLE 9 Wheat disease guide for Victoria.**

Variety	Stem rust	Stripe rust	Leaf rust	Yellow leaf spot	Septoria tritici blotch	Powdery mildew	CCN	RLN resistance ( <i>Pratylenchus neglectus</i> )	RLN resistance ( <i>Pratylenchus thornei</i> )	Crown rot	Common root rot	Flag smut
Beckom <sup>db</sup>	MRMS	MRMS	MSS	MSS	S		R	S	MSS	S	MSS	MRMS
Catapult <sup>db</sup>	MR	MRMS	S	MRMS	MSS	S	R	S	MS	Sp	MS	MS/RMR
Chief CL Plus <sup>db</sup>	MR	S	MR	MRMS	MSS	SVS	MS	MRMS	MSS	MSS	MS	SVS
Cobalt <sup>db</sup>	S	RMR	MS	MS	S		MSS	S	S	S	MSS	RMR
Condo <sup>db</sup>	MR	MSS	MSS	MS	S		MR	S	MS	S	MSS	MSS
Coolah <sup>db</sup>	MR	RMR	RMR/MS	MSS	MSS		S	S	MS	MSS	S	R
Corack <sup>db</sup>	MR	MS	SVS	MRMS	S	VS	RMR	MSS	MSS	S	MS	S
Cosmick <sup>db</sup>	MS	MSS	SVS	MRMS	S		S	S	MSS	S	MSS	SVS
Cutlass <sup>db</sup>	R	MS	R	MSS	MSS		MR	MSS	MSS	S	MS	MSS
DS Bennett <sup>db</sup>	MRMS	S	SVS	MRMS	MSS	R	S	S	S	VS	S	SVS
DS Darwin <sup>db</sup>	MRMS	MRMS	MSS	S	S		MSS	S	S	S	MSS	MR
DS Pascal <sup>db</sup>	MSS	RMR	MS	MRMS	MSS		S	S	S	S	MS	S
EGA Gregory <sup>db</sup>	MR	MR	RMR/MS	S	MSS		S	S	MSS	S	MSS	MSS
EGA Wedgetail <sup>db</sup>	MRMS	MS	MSS	MSS	MSS		S	SVS	VS	S		
Elmore CL Plus <sup>db</sup>	MR	MRMS	RMR	S	MSS		S	S	S	S	S	MSS
Emu Rock <sup>db</sup>	MS	MSS	SVS	MRMS	SVS		S	MSS	S	MSS	MS	MS/RMR
Grenade CL Plus <sup>db</sup>	MR	MRMS	S	S	S		R	MSS	S	S	MS	MR
Hatchet CL Plus <sup>db</sup>	MS	MSS	SVS	S	SVS		MR	MSS	MSS	S	MS	RMR
Illabo <sup>db</sup>	MRMS	MR <sub>p</sub>	S	MS	MSS	R	MRMS	S	S	Sp	MSS	R
Kiora	MR	RMR	MRMS	MSS	MSS		MS	S	MRMS	S	MS	MRMS
Longsword <sup>db</sup>	MR	MR	MSS	MRMS	MSS	MSS	MRMS	MRMS	MR	MSS	MS	MRMS
LRPB Arrow <sup>db</sup>	S	S	SVS	MRMS	S	S	MS	MRMS	MS	MSS	MS	MS
LRPB Cobra <sup>db</sup>	MR <sup>^</sup>	MSS	MR/S	MRMS	MSS		MS	MSS	MSS	S	MS	S
LRPB Hellfire <sup>db</sup>	MR	MR	MSS	MS	S	MSS	MRMS	S	MSS	MSS <sub>p</sub>	MSS	MS/RMR
LRPB Impala <sup>db</sup>	MR	MR	SVS	MSS	SVS		MSS	SVS	S	MSS	MSS	S
LRPB Kittyhawk <sup>db</sup>		RMR		MRMS	MRMS		S	S	S	SVS	S	RMR
LRPB Lancer <sup>db</sup>	R	MR	RMR/MS	MRMS	MS		S	S	MS	MSS	S	MSS
LRPB Nighthawk <sup>db</sup>	RMR	RMR	MSS	MS	MSS	S	MS	S	MS	MSS <sub>p</sub>	MSS	MSS
LRPB Parakeet <sup>db</sup>	MR	RMR	R	MSS	S	S	MS	MRMS	S	MSS	MS	MSS
Mace <sup>db</sup>	MRMS	SVS	MSS	MRMS	S	MSS	MRMS	MS	MS	S	MS	S
Manning <sup>db</sup>	MR	RMR	MSS	MR	MRMS		S	MSS	S	VS	SVS	R
Mitch <sup>db</sup>	MRMS	MR	MSS	MSS	S		S	S	S	MS	MS	S
Razor CL Plus <sup>db</sup>	MRMS	MS	S	MSS	SVS	MSS	MR	S	MRMS	S	MSS	RMR
RGT Accroc	MS	R	SVS	MR	MRMS		S	S	MSS	SVS		SVS
RGT Calabro	MS	RMR	MSS	MR	MRMS		S	S	MS <sub>p</sub>	SVS	MSS	RMR

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, p = provisional rating, / indicates pathotype differences,

<sup>^</sup> line contains a few susceptible off types.

TABLE 9 Wheat disease guide for Victoria (continued).

Variety	Stem rust	Stripe rust	Leaf rust	Yellow leaf spot	Septoria tritici blotch	Powdery mildew	CCN	RLN resistance ( <i>Pratylenchus neglectus</i> )	RLN resistance ( <i>Pratylenchus thornei</i> )	Crown rot	Common root rot	Flag smut
RGT Zanzibar	VS	R	SVS	MS	S		MSS	S	MS <sub>p</sub>	S	S	SVS
RockStar <sup>db</sup>	MR	MRMS	S	MRMS	MSS	S	MSS	MRMS	MRMS	Sp	MS	VS
Scepter <sup>db</sup>	MRMS	MSS	MSS	MRMS	S	SVS	MRMS	S	MSS	MSS	MS	MSS
SF Adagio	SVS	RMR	S	MR	MRMS		S	MS	MSS	SVS	MSS	MS
SF Scenario	MSS	R	MSS	MS	MRMS		S	S	S	SVS	MS	RMR
Sheriff CL Plus <sup>db</sup>	MS	MSS	SVS	MRMS	S	SVS	MS	MRMS	MRMS	S	MS	S
SQP Revenue <sup>db</sup>	RMR <sup>^</sup>	R	VS	MRMS	MSS		S	S	S	S	SVS	S
Sunlamb <sup>db</sup>	RMR	MRMS	MS	MRMS	MR		MR	MSS	MSS	S	MS	S
Suntop <sup>db</sup>	MRMS	MRMS	MR	MSS	MSS		S	S	MRMS	MSS	MS	R
Tenfour <sup>db</sup>	SVS	SVS	MSS	MRMS	S		MS	S	S	MSS	MS	MR
Vixen <sup>db</sup>	MRMS	MRMS	SVS	MRMS	S	S	MSS	MRMS	MS	S	MS	SVS
Yitpi <sup>db</sup>	S	MS	S	SVS	MSS		MR	MSS	S	S	MS	MR
DURUM												
Bitalli <sup>db</sup>	MR	MS	MR	MRMS	MRMS	S	S	MSS	RMR	SVSp	MS	R
DBA-Aurora <sup>db</sup>	RMR	MRMS	R	MRMS	MR	S	MSS	MRMS	RMR	VS	MSS	
DBA Spes <sup>db</sup>	R	MS	R	MRMS	MRMS/SVS	MSS	MS	MRMS	RMR	VS	MS	R
DBA Vittaro <sup>db</sup>	MR	MS	MR	MRMS	MS		S	MS	MR	SVS	MSS	R
Westcourt <sup>db</sup>	RMR	MR	RMR	MRMS	MS	MSS	MSS	MS	MR	SVSp	MS	R

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, *p* = provisional rating, / indicates pathotype differences,

<sup>^</sup> line contains a few susceptible off types.

# BARLEY

## NEW BARLEY VARIETIES

The following information is for barley varieties released during 2019 and since the 2020 Victorian Crop Sowing Guide was published.

Variety	Breeding company	End Point Royalty* (\$)	Comments supplied by breeding company
Leabrook <sup>Ⓛ</sup>	University of Adelaide	3.80	Mid-early maturing, medium-tall variety under malting evaluation. Bred for yield and grain size improvement over Compass <sup>Ⓛ</sup> .
Maximus CL <sup>Ⓛ</sup>	InterGrain	n/a	Exceptionally high yielding, early to mid-flowering, potential malt, imidazoline-tolerant barley. Seed available 2021.

n/a not available, \* EPR amount is ex-GST, <sup>Ⓛ</sup> denotes Plant Breeder's Rights apply.

Refer to 2020 Victorian Crop Sowing Guide for further information at [grdc.com.au/NVT-Victorian-Winter-Crop-Summary](http://grdc.com.au/NVT-Victorian-Winter-Crop-Summary)

WHEAT

BARLEY

OAT

CANOLA

## BARLEY VARIETY YIELD PERFORMANCE – NORTHERN VICTORIA

The following tables contain yield results from the top-performing varieties within each NVT location in Northern Victoria for the past five seasons. Data is presented (as a percentage) for each variety relative to the mean trial yield for the location within each year. Varieties are listed in descending order of average yield over the period.

**TABLE 1 Charlton main season barley.**

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)		6.18	5.71	3.78	
Leabrook <sup>db</sup>	Trial failed	122	109	120	Trial failed
Compass <sup>db</sup>		120	104	122	
Rosalind <sup>db</sup>		110	111	108	
Fathom <sup>db</sup>		107	103	122	
Banks <sup>db</sup>		110	105	111	
Buff <sup>db</sup>		103	106	109	
Hindmarsh <sup>db</sup>		104	101	110	
RGT Planet <sup>db</sup>		98	113	99	
Commander <sup>db</sup>		104	100	104	
La Trobe <sup>db</sup>		100	100	108	
CLEARFIELD®					
Maximus CL <sup>db</sup>				108	
Spartacus CL <sup>db</sup>		106	100	108	
Scope CL <sup>db</sup>		95	93	103	
Sowing date	27 Apr	8 May	9 May	18 May	22 May
Rainfall J–M (mm)	59	79	82	22	36
Rainfall A–O (mm)	152	418	243	180	257

For more information click this [LINK](#)

**TABLE 3 Yarrawonga main season barley.**

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)				4.44	5.47
RGT Planet <sup>db</sup>	No trial	No trial	No trial	109	116
Rosalind <sup>db</sup>				107	111
Fathom <sup>db</sup>				110	106
Banks <sup>db</sup>				105	105
Bottler <sup>db</sup>				103	105
Leabrook <sup>db</sup>				104	104
LG Maltstar <sup>db</sup>				103	103
Buff <sup>db</sup>				100	105
La Trobe <sup>db</sup>				103	102
Hindmarsh <sup>db</sup>				102	102
CLEARFIELD®					
Maximus CL <sup>db</sup>				101	101
Spartacus CL <sup>db</sup>				102	100
Scope CL <sup>db</sup>				99	96
Sowing date				9 May	19 May
Rainfall J–M (mm)				47	24
Rainfall A–O (mm)				166	198

For more information click this [LINK](#)

The performance of varieties not listed within these tables can be found by further interrogation of the NVT website via the links below each table.

Error bars, normally used to compare data, can be viewed within the graph option also found via the website links below each table.

Rainfall is provided for January to March (J–M) and April to October (A–O).

**TABLE 2 Colbinabbin main season barley.**

Year	2015	2016	2017	2018	2019
<b>Mean yield (t/ha)</b>	<b>2.47</b>	<b>5.95</b>	<b>3.56</b>	<b>2.02</b>	<b>3.88</b>
RGT Planet <sup>db</sup>		113	123	104	107
Rosalind <sup>db</sup>	110	107	117	115	111
Buff <sup>db</sup>		104	104	124	107
Leabrook <sup>db</sup>	110	105	103	115	108
Fathom <sup>db</sup>	111	105	100	115	109
Banks <sup>db</sup>	105	105	106	111	104
Compass <sup>db</sup>	109	101	99	123	106
Hindmarsh <sup>db</sup>	108	99	101	118	107
La Trobe <sup>db</sup>	108	99	101	117	107
Bottler <sup>db</sup>		104	108	99	101
<b>CLEARFIELD®</b>					
Maximus CL <sup>db</sup>				118	106
Spartacus CL <sup>db</sup>	106	98	101	114	107
Scope CL <sup>db</sup>	98	96	96	109	97
<b>Sowing date</b>	<b>13 May</b>	<b>30 May</b>	<b>17 May</b>	<b>22 May</b>	<b>25 May</b>
<b>Rainfall J–M (mm)</b>	<b>93</b>	<b>93</b>	<b>117</b>	<b>37</b>	<b>27</b>
<b>Rainfall A–O (mm)</b>	<b>188</b>	<b>507</b>	<b>282</b>	<b>200</b>	<b>230</b>

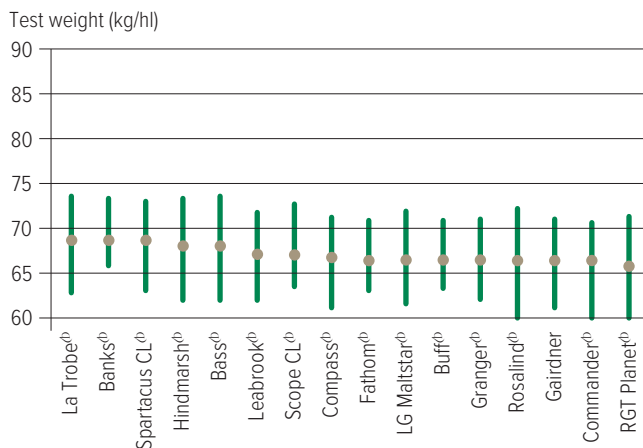
For more information click this [LINK](#)

## BARLEY VARIETY QUALITY – VICTORIA

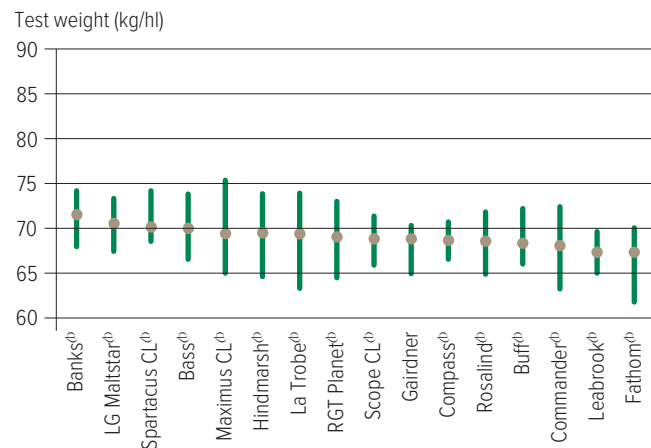
Grain quality for individual varieties varies from site to site and from year to year. However, long-term and across-site trends highlight varieties that can consistently achieve higher test weights, lower grain screenings or higher retentions under a wider range of environments. The following figures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

quality trends as box and whisker plots from 2018 and 2019 NVT averaged for all trials in Victoria. Only the varieties evaluated at every site are included. Each figure shows the median value (circle) and variability (lines) of each barley variety. The range of the lines represents the middle 50 per cent of grain screenings, test weights and retention for each variety. The shorter the lines, the less variable the variety for the depicted trait.

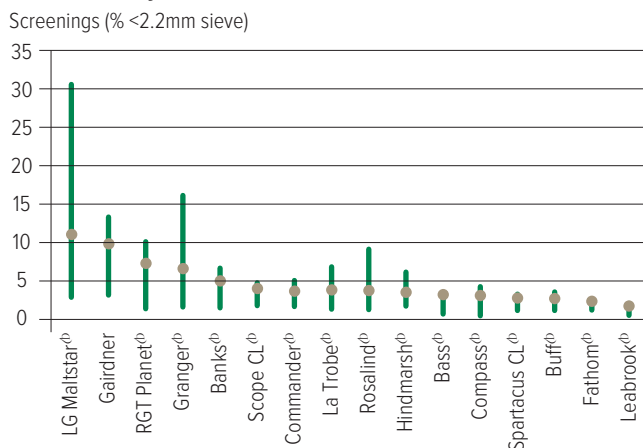
**FIGURE 1 Test weight (kg/hl) comparisons for main season barley varieties from 11 NVT sites in Victoria 2019.**



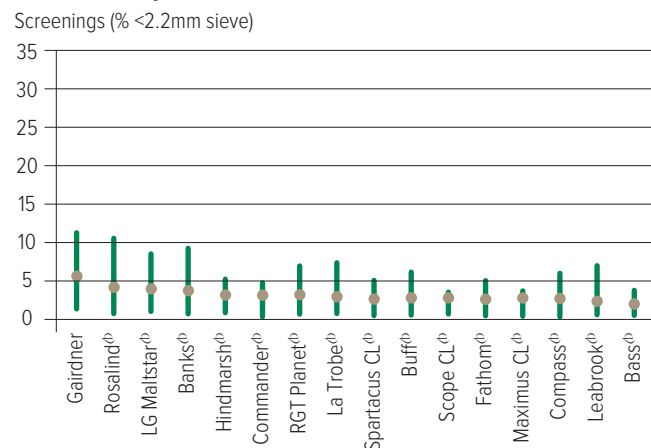
**FIGURE 2 Test weight (kg/hl) comparisons for main season barley varieties from 10 NVT sites in Victoria 2018.**



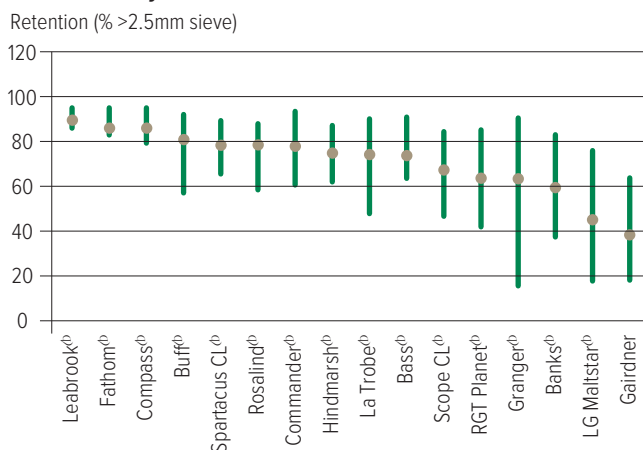
**FIGURE 3 Screenings (<2.2mm) comparisons for main season barley varieties from 11 NVT sites in Victoria 2019.**



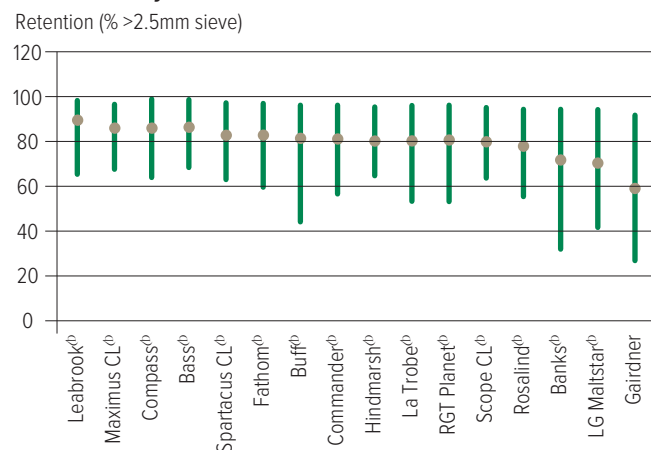
**FIGURE 4 Screenings (<2.2mm) comparisons for main season barley varieties from 10 NVT sites in Victoria 2018.**



**FIGURE 5 Retention (>2.5mm) comparisons for main season barley varieties from 11 NVT sites in Victoria 2019.**



**FIGURE 6 Retention (>2.5mm) comparisons for main season barley varieties from 10 NVT sites in Victoria 2018.**



## BARLEY VARIETY DISEASE RATINGS – VICTORIA

The following table contains varietal ratings for the predominant diseases of barley in Victoria. These

ratings are updated annually by crop pathologists and were released in March 2020. Selected varieties of most relevance to Victorian growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and susceptibility ratings.

**TABLE 4 Barley disease guide for Victoria.**

Variety	Leaf scald	Spot form net blotch	Net form net blotch	Powdery mildew	Leaf rust	CCN	RLN resistance ( <i>Pratylenchus neglectus</i> )	RLN resistance ( <i>Pratylenchus thornei</i> )
LG Alestar <sup>db</sup>	S	S	S	RMR	MS	R <sup>a</sup>	MR	MR
Banks <sup>db</sup>	SVS	S	MRMS	MRMS	S	S	MRMS	MR
Bottler <sup>db</sup>	SVS	S	MS	R	MS		MS	RMR
Buff <sup>db</sup>	SVS	S	MS	S	SVS		MRMS	MRMS
Commander <sup>db</sup>	SVS	MSS	MS#	MRMS	S	R	MRMS	MRMS
Compass <sup>db</sup>	SVS	MS	MSS	MRMS	SVS	R	MRMS	MR
Fairview <sup>db</sup>	SVS	S	SVS	R	S		MR	MR
Fathom <sup>db</sup>	S	RMR	MS	MRMS	S	R	MRMS	MR
Gairdner	SVS	S	MRMS#	SVS	S	S	MRMS	MSS
Granger <sup>db</sup>	SVS	S	MSS	RMR	MS	R	MRMS	MRMS
Hindmarsh <sup>db</sup>	SVS	SVS	MS	SVS	S	R	MRMS	MRMS
La Trobe <sup>db</sup>	SVS	S	MS	MS#	S	R	MRMS	MRMS
Leabrook <sup>db</sup>	SVS	MS	MR <sub>p</sub>	MRMS	SVS	MRMS	MR	RMR
Maximus CL <sup>db</sup>	MRMS	MS	MRMS	S	S	R	MRMS	MRMS
Oxford	SVS	S	VS	R	MS	S	MR	MR
RGT Planet <sup>db</sup>	SVS	S	SVS	R	MS	R <sub>p</sub>	MRMS	MR
Rosalind <sup>db</sup>	S	S	MR	SVS	MR	R	MRMS	MR
Scope CL <sup>db</sup>	S	MSS	MR#	RMR	S	S	MRMS	MRMS
Shepherd <sup>db</sup>	VS	SVS	MSS	S	MRMS		MRMS	MSS
Spartacus CL <sup>db</sup>	SVS	SVS	MSS	SVS	S	R	MRMS	MRMS
Westminster <sup>db</sup>	MRMS	S	MR#	R	MRMS		MRMS	MS

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, *p* = provisional rating, # may be more susceptible to new pathotypes, <sup>a</sup> line contains a few susceptible off types.

# OAT

## NEW OAT VARIETIES

The following information is for oat varieties released during 2019 and since the 2020 Victorian Crop Sowing Guide was published.

Variety	Breeding company	End Point Royalty* (\$)	Comments supplied by breeding company
Bilby <sup>Ⓛ</sup>	National Oat Breeding Program	2.50	High grain yield potentials and high $\beta$ -glucan content with bright plump grain and high groat per cent leading to higher milling yield for processing.
Koorabup <sup>Ⓛ</sup>	National Oat Breeding Program	2.00	Has the best Septoria resistance of any current hay or milling variety. It has excellent colour and good stem diameter for hay production.

\* EPR amount is ex-GST, <sup>Ⓛ</sup> denotes Plant Breeder's Rights apply.

Refer to 2020 Victorian Crop Sowing Guide for further information at [grdc.com.au/NVT-Victorian-Winter-Crop-Summary](http://grdc.com.au/NVT-Victorian-Winter-Crop-Summary)

WHEAT

BARLEY

OAT

CANOLA

## OAT VARIETY YIELD PERFORMANCE – NORTHERN VICTORIA

The following tables contain yield results from the top-performing varieties within each NVT location in Northern Victoria for the past five seasons. Data is presented (as a percentage) for each variety relative to the mean trial yield for the location within each year. Varieties are listed in descending order of average yield over the period.

**TABLE 1 Diggora oat.**

Year	2015	2016	2017	2018	2019
<b>Mean yield (t/ha)</b>	<b>0.72</b>	<b>6.78</b>	<b>4.98</b>	<b>0.38</b>	<b>2.26</b>
Bannister <sup>Ⓛ</sup>	102	123	110	141	109
Bilby <sup>Ⓛ</sup>	113	112	102	155	119
Williams <sup>Ⓛ</sup>	106	110	113	147	89
Echidna	64	109	103	93	107
Kowari <sup>Ⓛ</sup>	102	98	97	143	114
Possum	97	97	97	108	103
Mitika <sup>Ⓛ</sup>	88	91	95	120	105
Yallara <sup>Ⓛ</sup>	107	84	98	109	103
Durack <sup>Ⓛ</sup>	102	77	95	137	101
Koorabup <sup>Ⓛ</sup>	82	72	97	124	102
<b>Sowing date</b>	<b>22 May</b>	<b>7 May</b>	<b>17 May</b>	<b>21 May</b>	<b>17 May</b>
<b>Rainfall J–M (mm)</b>	<b>56</b>	<b>67</b>	<b>130</b>	<b>44</b>	<b>35</b>
<b>Rainfall A–O (mm)</b>	<b>139</b>	<b>463</b>	<b>279</b>	<b>190</b>	<b>200</b>

For more information click this [LINK](#)

**TABLE 3 Eastville oat.**

Year	2015	2016	2017	2018	2019
<b>Mean yield (t/ha)</b>	<b>0.78</b>	<b>5.03</b>	<b>2.54</b>	<b>0.86</b>	<b>1.84</b>
Bannister <sup>Ⓛ</sup>	106	131	110	107	112
Williams <sup>Ⓛ</sup>	94	124	116	95	107
Bilby <sup>Ⓛ</sup>	127	109	106	115	107
Echidna	70	126	85	101	102
Kowari <sup>Ⓛ</sup>	120	97	96	112	96
Possum	108	98	94	104	95
Mitika <sup>Ⓛ</sup>	107	95	87	106	88
Yallara <sup>Ⓛ</sup>	85	79	103	96	103
Durack <sup>Ⓛ</sup>	103	77	94	101	89
Koorabup <sup>Ⓛ</sup>	62	81	89	94	95
<b>Sowing date</b>	<b>8 May</b>	<b>10 May</b>	<b>31 May</b>	<b>22 May</b>	<b>20 May</b>
<b>Rainfall J–M (mm)</b>	<b>78</b>	<b>76</b>	<b>86</b>	<b>51</b>	<b>34</b>
<b>Rainfall A–O (mm)</b>	<b>205</b>	<b>498</b>	<b>332</b>	<b>157</b>	<b>363</b>

For more information click this [LINK](#)

The performance of varieties not listed within these tables can be found by further interrogation of the NVT website via the links below each table.

Error bars, normally used to compare data, can be viewed within the graph option also found via the website links below each table.

Rainfall is provided for January to March (J–M) and April to October (A–O).

**TABLE 2 Dookie oat.**

Year	2015	2016	2017	2018	2019
<b>Mean yield (t/ha)</b>	<b>2.37</b>	<b>6.34</b>	<b>4.05</b>	<b>1.89</b>	<b>3.00</b>
Bilby <sup>Ⓛ</sup>	107	113	109	107	112
Bannister <sup>Ⓛ</sup>	97	125	108	115	98
Williams <sup>Ⓛ</sup>	98	116	110	118	91
Kowari <sup>Ⓛ</sup>	111	99	104	98	112
Possum	108	97	100	95	105
Mitika <sup>Ⓛ</sup>	113	91	99	91	107
Echidna	87	112	94	102	88
Durack <sup>Ⓛ</sup>	109	81	102	98	106
Yallara <sup>Ⓛ</sup>	88	89	100	107	97
Koorabup <sup>Ⓛ</sup>	85	82	97	106	90
<b>Sowing date</b>	<b>8 May</b>	<b>17 May</b>	<b>17 May</b>	<b>15 May</b>	<b>17 May</b>
<b>Rainfall J–M (mm)</b>	<b>76</b>	<b>130</b>	<b>82</b>	<b>50</b>	<b>50</b>
<b>Rainfall A–O (mm)</b>	<b>233</b>	<b>485</b>	<b>221</b>	<b>151</b>	<b>253</b>

For more information click this [LINK](#)

## OAT VARIETY DISEASE RATINGS – VICTORIA

The following table contains varietal ratings for the predominant diseases of oat in Victoria. These

ratings are updated annually by crop pathologists and were released in March 2020. Selected varieties of most relevance to Victorian growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and susceptibility ratings.

**TABLE 4 Oat disease guide for Victoria.**

Variety	Leaf (crown) rust	Stem rust	Barley yellow dwarf virus (BYDV)	Septoria blotch	Bacterial blight	Red leather leaf
Bannister <sup>db</sup>	S	S	MRMS	MSS	S	MSS
Bilby <sup>db</sup>	MR	S	MRMS <sub>p</sub>	SVS	S	MS
Durack <sup>db</sup>	MSS	S	MSS	S	S	S
Koorabup <sup>db</sup>	MSS	S	MSS <sub>p</sub>	MRMS-SVS <sub>p</sub>	MSS	SVS
Kowari <sup>db</sup>	S	S	MSS	S	MSS	MS
Williams <sup>db</sup>	MRMS	S	MRMS	MS	MSS	MS
Wombat	SVS	S	MRMS	MR-MSS <sub>p</sub>	S	S
Yallara <sup>db</sup>	MSS	S	MSS	MR-S <sub>p</sub>	MSS	SVS

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

# CANOLA

## NEW CANOLA VARIETIES

The following information is for canola varieties released during 2019 and since the 2020 Victorian Crop Sowing Guide was published.

Variety	Breeding company	End Point Royalty* (\$)	Comments supplied by breeding company
HyITec® Trident	Nuseed Pty Ltd	10.00	Early maturity hybrid canola with medium-tall plant height. Suited to low-medium rainfall areas.
HyITec® Trifecta	Nuseed Pty Ltd	10.00	Not supplied
InVigor® R 4022P	BASF Australia	n/a	Not supplied
VICTORY® V75-03CL	Cargill	n/a	Mid-maturing specialty hybrid.
Xseed™ Raptor	Nuseed Pty Ltd	n/a	An early-mid maturing hybrid. Suited to medium-high rainfall areas. Medium plant height.

n/a not available, \* EPR amount is ex-GST, <sup>♠</sup> denotes Plant Breeder's Rights apply.

Refer to 2020 Victorian Crop Sowing Guide for further information at [grdc.com.au/NVT-Victorian-Winter-Crop-Summary](http://grdc.com.au/NVT-Victorian-Winter-Crop-Summary)

WHEAT

BARLEY

OAT

CANOLA

## CANOLA VARIETY YIELD PERFORMANCE – NORTHERN VICTORIA

The following tables contain yield results from the top-performing varieties within each NVT location in Northern Victoria for the past five seasons. Data is presented (as a percentage) for each variety relative to the mean trial yield for the location within each year. Varieties are listed in descending order of average yield over the period.

**TABLE 1 Charlton mid season CL canola.**

Year	2015	2016	2017	2018	2019
<b>Mean yield (t/ha)</b>		<b>3.83</b>	<b>3.05</b>		<b>2.32</b>
Pioneer® 45Y93 CL			107		111
Pioneer® 44Y90 CL		109	105		108
Saintly CL		104	101		106
Pioneer® 43Y92 CL		103	101		106
VICTORY® V7002CL			98		97
Hyola® 575CL		94	95		93
<b>Sowing date</b>	<b>28 Apr</b>	<b>29 Apr</b>	<b>2 May</b>	<b>4 May</b>	<b>9 May</b>
<b>Rainfall J–M (mm)</b>	<b>59</b>	<b>79</b>	<b>82</b>	<b>22</b>	<b>36</b>
<b>Rainfall A–O (mm)</b>	<b>152</b>	<b>418</b>	<b>243</b>	<b>180</b>	<b>257</b>

For more information click this [LINK](#)

**TABLE 2 Diggora mid season CL canola.**

Year	2015	2016	2017	2018	2019
<b>Mean yield (t/ha)</b>	<b>0.70</b>	<b>3.67</b>	<b>2.22</b>	<b>0.82</b>	<b>1.11</b>
Pioneer® 45Y93 CL			109		119
Saintly CL	121	106		112	116
Pioneer® 43Y92 CL		104	116	114	113
Pioneer® 44Y90 CL	111	110	110	110	114
VICTORY® V7002CL			97	94	97
Hyola® 575CL	89	93	94	90	93
<b>Sowing date</b>	<b>16 Jun</b>	<b>6 May</b>	<b>9 May</b>	<b>5 May</b>	<b>6 May</b>
<b>Rainfall J–M (mm)</b>	<b>56</b>	<b>67</b>	<b>130</b>	<b>44</b>	<b>33</b>
<b>Rainfall A–O (mm)</b>	<b>139</b>	<b>463</b>	<b>279</b>	<b>190</b>	<b>199</b>

For more information click this [LINK](#)

**TABLE 3 Wunghnu mid season CL canola.**

Year	2015	2016	2017	2018	2019
<b>Mean yield (t/ha)</b>	<b>1.19</b>	<b>3.07</b>	<b>1.97</b>		<b>0.96</b>
Saintly CL	123	104	113		130
Pioneer® 45Y93 CL			108		118
Pioneer® 44Y90 CL	112		109		119
Pioneer® 45Y91 CL		106	104		110
VICTORY® V7002CL			96		95
VICTORY® V75-03CL					89
Hyola® 575CL	91	94	94		91
<b>Sowing date</b>	<b>30 Apr</b>	<b>5 May</b>	<b>2 May</b>	<b>4 May</b>	<b>5 May</b>
<b>Rainfall J–M (mm)</b>	<b>71</b>	<b>82</b>	<b>108</b>	<b>40</b>	<b>5</b>
<b>Rainfall A–O (mm)</b>	<b>195</b>	<b>498</b>	<b>234</b>	<b>146</b>	<b>194</b>

For more information click this [LINK](#)

**TABLE 4 Yarrawonga mid season CL canola.**

Year	2015	2016	2017	2018	2019
<b>Mean yield (t/ha)</b>	<b>2.24</b>	<b>3.17</b>	<b>1.53</b>	<b>1.40</b>	<b>1.58</b>
Pioneer® 45Y93 CL			110	107	117
Saintly CL	109	104	112	115	126
Pioneer® 44Y90 CL	109		110	110	118
Pioneer® 45Y91 CL		105	105	103	109
VICTORY® V75-03CL				94	90
VICTORY® V7002CL			97	95	95
Hyola® 575CL	93	91	94	92	90
<b>Sowing date</b>	<b>29 Apr</b>	<b>12 May</b>	<b>2 May</b>	<b>4 May</b>	<b>7 May</b>
<b>Rainfall J–M (mm)</b>	<b>120</b>	<b>125</b>	<b>88</b>	<b>47</b>	<b>24</b>
<b>Rainfall A–O (mm)</b>	<b>264</b>	<b>604</b>	<b>270</b>	<b>166</b>	<b>198</b>

For more information click this [LINK](#)

**TABLE 5 Charlton mid season RR canola.**

Year	2015	2016	2017	2018	2019
<b>Mean yield (t/ha)</b>		<b>3.83</b>	<b>3.05</b>		<b>2.32</b>
Pioneer® 43Y29 RR	Trial failed		104	Trial failed	108
InVigor® R 4022P					109
Xseed™ Raptor					106
Nuseed® GT-53		104	105		105
Pioneer® 44Y27 RR		104	103		106
InVigor® R 5520P		103	100		102
DG 408RR		101	101		102
Hyola® 410XX					102
Hyola® 540XC					95
VICTORY® V5003RR		96	98		94
<b>Sowing date</b>	<b>28 Apr</b>	<b>29 Apr</b>	<b>2 May</b>	<b>4 May</b>	<b>9 May</b>
<b>Rainfall J–M (mm)</b>	<b>59</b>	<b>79</b>	<b>82</b>	<b>22</b>	<b>36</b>
<b>Rainfall A–O (mm)</b>	<b>152</b>	<b>418</b>	<b>243</b>	<b>180</b>	<b>257</b>

For more information click this [LINK](#)**TABLE 6 Diggora mid season RR canola.**

Year	2015	2016	2017	2018	2019
<b>Mean yield (t/ha)</b>	<b>0.70</b>	<b>3.67</b>	<b>2.22</b>	<b>0.82</b>	<b>1.11</b>
InVigor® R 4022P					128
Pioneer® 43Y29 RR			112		118
Pioneer® 44Y27 RR		104	107	111	106
InVigor® R 5520P		104	108	102	112
Xseed™ Raptor					100
DG 408RR		100	101	105	99
Nuseed® GT-53	105	103	97	106	96
Hyola® 410XX					94
InVigor® R 3520		88		106	93
Hyola® 540XC					90
<b>Sowing date</b>	<b>16 Jun</b>	<b>6 May</b>	<b>9 May</b>	<b>5 May</b>	<b>6 May</b>
<b>Rainfall J–M (mm)</b>	<b>56</b>	<b>67</b>	<b>130</b>	<b>44</b>	<b>33</b>
<b>Rainfall A–O (mm)</b>	<b>139</b>	<b>463</b>	<b>279</b>	<b>190</b>	<b>199</b>

For more information click this [LINK](#)**TABLE 7 Wunghnu mid season RR canola.**

Year	2015	2016	2017	2018	2019
<b>Mean yield (t/ha)</b>	<b>1.19</b>	<b>3.07</b>	<b>1.97</b>		<b>0.96</b>
InVigor® R 4022P				Trial failed	142
Pioneer® 43Y29 RR			110		124
Pioneer® 44Y27 RR		104			112
InVigor® R 5520P	108	103	106		117
Xseed™ Raptor					99
Pioneer® 45Y25 RR	92	110	100		99
DG 408RR			102		100
Hyola® 506RR			101		100
Nuseed® GT-53	98	104	100		90
Hyola® 410XX					95
<b>Sowing date</b>	<b>30 Apr</b>	<b>5 May</b>	<b>2 May</b>	<b>4 May</b>	<b>5 May</b>
<b>Rainfall J–M (mm)</b>	<b>71</b>	<b>82</b>	<b>108</b>	<b>40</b>	<b>5</b>
<b>Rainfall A–O (mm)</b>	<b>195</b>	<b>498</b>	<b>234</b>	<b>146</b>	<b>194</b>

For more information click this [LINK](#)**TABLE 8 Yarrawonga mid season RR canola.**

Year	2015	2016	2017	2018	2019
<b>Mean yield (t/ha)</b>	<b>2.24</b>	<b>3.17</b>	<b>1.53</b>	<b>1.40</b>	<b>1.58</b>
InVigor® R 4022P					136
Pioneer® 43Y29 RR			111		121
Pioneer® 44Y27 RR		107	107	110	112
Xseed™ Raptor					102
InVigor® R 5520P	104	100	106	105	114
Pioneer® 45Y25 RR	104	111	103	98	101
Nuseed® GT-53	103	110	100	102	95
DG 408RR				104	101
Hyola® 410XX					98
Hyola® 506RR		100	100	103	101
<b>Sowing date</b>	<b>29 Apr</b>	<b>12 May</b>	<b>2 May</b>	<b>4 May</b>	<b>7 May</b>
<b>Rainfall J–M (mm)</b>	<b>120</b>	<b>125</b>	<b>88</b>	<b>47</b>	<b>24</b>
<b>Rainfall A–O (mm)</b>	<b>264</b>	<b>604</b>	<b>270</b>	<b>166</b>	<b>198</b>

For more information click this [LINK](#)

**TABLE 9 Charlton mid season TT canola.**

Year	2015	2016	2017	2018	2019
<b>Mean yield (t/ha)</b>		<b>3.83</b>	<b>3.05</b>		<b>2.32</b>
HyTtec® Trophy	Trial failed		110	Trial failed	114
HyTtec® Trident					114
InVigor® T 4510		111	107		112
SF Turbine TT		104	103		105
Hyola® 350TT			102		105
Hyola® 550TT					105
SF Spark TT					102
Pioneer® 44T02 TT		98	101		102
ATR Bonito <sup>db</sup>		99	98		97
BASF 3000 TR		91	95		95
<b>Sowing date</b>	<b>28 Apr</b>	<b>29 Apr</b>	<b>2 May</b>	<b>4 May</b>	<b>9 May</b>
<b>Rainfall J–M (mm)</b>	<b>59</b>	<b>79</b>	<b>82</b>	<b>22</b>	<b>36</b>
<b>Rainfall A–O (mm)</b>	<b>152</b>	<b>418</b>	<b>243</b>	<b>180</b>	<b>257</b>

For more information click this [LINK](#)**TABLE 10 Diggora mid season TT canola.**

Year	2015	2016	2017	2018	2019
<b>Mean yield (t/ha)</b>	<b>0.70</b>	<b>3.67</b>	<b>2.22</b>	<b>0.82</b>	<b>1.11</b>
InVigor® T 4510		113	114	117	118
HyTtec® Trophy			110	119	113
HyTtec® Trident			108	125	104
Hyola® 350TT			110	112	107
SF Turbine TT	111	105	106	108	107
Hyola® 550TT				113	102
SF Spark TT				104	102
Pioneer® 44T02 TT	120	97	103	111	95
ATR Bonito <sup>db</sup>	92	99	98	94	101
BASF 3000 TR			100	102	91
<b>Sowing date</b>	<b>16 Jun</b>	<b>6 May</b>	<b>9 May</b>	<b>5 May</b>	<b>6 May</b>
<b>Rainfall J–M (mm)</b>	<b>56</b>	<b>67</b>	<b>130</b>	<b>44</b>	<b>33</b>
<b>Rainfall A–O (mm)</b>	<b>139</b>	<b>463</b>	<b>279</b>	<b>190</b>	<b>199</b>

For more information click this [LINK](#)**TABLE 11 Wunghnu mid season TT canola.**

Year	2015	2016	2017	2018	2019
<b>Mean yield (t/ha)</b>	<b>1.19</b>	<b>3.07</b>	<b>1.97</b>		<b>0.96</b>
InVigor® T 4510		112	113	Trial failed	125
HyTtec® Trophy			111		115
HyTtec® Trident					107
DG 670TT		112			115
Hyola® 350TT			109		116
SF Ignite TT		115	104		108
Hyola® 550TT					110
SF Turbine TT	110	105	106		110
Pioneer® 45T03 TT					107
SF Spark TT					105
<b>Sowing date</b>	<b>30 Apr</b>	<b>5 May</b>	<b>2 May</b>	<b>4 May</b>	<b>5 May</b>
<b>Rainfall J–M (mm)</b>	<b>71</b>	<b>82</b>	<b>108</b>	<b>40</b>	<b>5</b>
<b>Rainfall A–O (mm)</b>	<b>195</b>	<b>498</b>	<b>234</b>	<b>146</b>	<b>194</b>

For more information click this [LINK](#)**TABLE 12 Yarrawonga mid season TT canola.**

Year	2015	2016	2017	2018	2019
<b>Mean yield (t/ha)</b>	<b>2.24</b>	<b>3.17</b>	<b>1.53</b>	<b>1.40</b>	<b>1.58</b>
HyTtec® Trifecta				120	128
HyTtec® Trident					112
HyTtec® Trophy			112	115	117
InVigor® T 4510		115	113	116	124
DG 670TT		112	109	106	114
SF Ignite TT		115	107	102	109
Hyola® 350TT		105	108	112	115
Hyola® 550TT				112	110
SF Turbine TT	106	107	106	108	110
SF Spark TT					105
<b>Sowing date</b>	<b>29 Apr</b>	<b>12 May</b>	<b>2 May</b>	<b>4 May</b>	<b>7 May</b>
<b>Rainfall J–M (mm)</b>	<b>120</b>	<b>125</b>	<b>88</b>	<b>47</b>	<b>24</b>
<b>Rainfall A–O (mm)</b>	<b>264</b>	<b>604</b>	<b>270</b>	<b>166</b>	<b>198</b>

For more information click this [LINK](#)**TABLE 13 Diggora mid season conventional canola.**

Year	2015	2016	2017	2018	2019
<b>Mean yield (t/ha)</b>	<b>0.70</b>	<b>3.67</b>	<b>2.22</b>	<b>0.82</b>	<b>1.11</b>
Nuseed® Quartz		108	106	113	105
Nuseed® Diamond	121	97		109	107
AV-Garnet <sup>db</sup>	79	96	90	87	93
<b>Sowing date</b>	<b>16 Jun</b>	<b>6 May</b>	<b>9 May</b>	<b>5 May</b>	<b>6 May</b>
<b>Rainfall J–M (mm)</b>	<b>56</b>	<b>67</b>	<b>130</b>	<b>44</b>	<b>33</b>
<b>Rainfall A–O (mm)</b>	<b>139</b>	<b>463</b>	<b>279</b>	<b>190</b>	<b>199</b>

For more information click this [LINK](#)**TABLE 14 Wunghnu mid season conventional canola.**

Year	2015	2016	2017	2018	2019
<b>Mean yield (t/ha)</b>	<b>1.19</b>	<b>3.07</b>	<b>1.97</b>		<b>0.96</b>
Nuseed® Diamond	122	97		Trial failed	123
Nuseed® Quartz		108	107		107
AV-Garnet <sup>db</sup>	83	96	91		84
<b>Sowing date</b>	<b>30 Apr</b>	<b>5 May</b>	<b>2 May</b>	<b>4 May</b>	<b>5 May</b>
<b>Rainfall J–M (mm)</b>	<b>71</b>	<b>82</b>	<b>108</b>	<b>40</b>	<b>5</b>
<b>Rainfall A–O (mm)</b>	<b>195</b>	<b>498</b>	<b>234</b>	<b>146</b>	<b>194</b>

For more information click this [LINK](#)

## CANOLA VARIETY DISEASE RATINGS – VICTORIA

The following table contains varietal ratings for the predominant diseases of canola in Victoria. These

ratings are updated annually by crop pathologists and were released in March 2020. Selected varieties of most relevance to Victorian growers are listed in alphabetical order and disease ratings are colour-coded to match resistance and susceptibility ratings.

**TABLE 15 Canola disease guide for Victoria.**

Variety	2020 autumn Blackleg rating				Type
	Bare	Jockey®	ILeVO®	Saltro®	
CONVENTIONAL VARIETIES					
AV-Garnet <sup>Ⓓ</sup>	MS				Open pollinated
Nuseed® Diamond	MR	R	R	R	Hybrid
Nuseed® Quartz	R				Hybrid
VICTORY® V3002	R-MR	R	R	R	High stability oil, hybrid
TRIAZINE-TOLERANT VARIETIES					
ATR Bonito <sup>Ⓓ</sup>	MS	R-MR	R	R	Open pollinated
ATR Mako <sup>Ⓓ</sup>	MR	R-MR	R	R	Open pollinated
ATR Stingray <sup>Ⓓ</sup>	MR	R	R	R	Open pollinated
ATR Wahoo <sup>Ⓓ</sup>	MS				Open pollinated
DG 670TT	MR		R	R	Hybrid
Hyola® 350TT	R	R	R	R	Hybrid
Hyola® 550TT	R			R	Hybrid
Hyola® 559TT	R			R	Hybrid
Hyola® 650TT	R	R	R	R	Hybrid
HyTTec® Trident	R				Hybrid
HyTTec® Trifecta	R				Hybrid
HyTTec® Trophy	R				Hybrid
InVigor® T 3510	MR-MS	MR	R		Hybrid
InVigor® T 4510	MR	R	R	R	Hybrid
Monola® 416TT	R-MR				High stability oil, open pollinated
Pioneer® 44T02 TT	R		R		Hybrid
Pioneer® 45T03 TT	R		R		Hybrid
SF Ignite TT	MR	R	R	R	Hybrid
SF Spark TT	R	R	R	R	Hybrid
SF Turbine TT	MR-MS	R	R	R	Hybrid
CLEARFIELD® SYSTEM VARIETIES					
Banker CL	MR	R		R	Hybrid
Hyola® 575CL	R	R	R	R	Hybrid
Hyola® 970CL	R	R	R	R	Winter, hybrid
Phoenix CL	R				Winter, hybrid
Pioneer® 43Y92 CL	R		R		Hybrid
Pioneer® 44Y90 CL	R	R	R	R	Hybrid
Pioneer® 45Y91 CL	R-MR	R	R	R	Hybrid
Pioneer® 45Y93 CL	R		R	R	Hybrid
Saintly CL	MR	R		R	Hybrid
SF Edimax CL	R-MR				Winter, hybrid
VICTORY® V7001CL	R-MR	R	R	R	High stability oil, hybrid
VICTORY® V7002CL	R-MR	R	R	R	High stability oil, hybrid
VICTORY® V75-03CL	R-MR	R	R	R	High stability oil, hybrid
CLEARFIELD® AND TRIAZINE-TOLERANT VARIETIES					
Hvola® 580CT	R	R	R	R	Hybrid

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

Note: Cultivars with higher Blackleg ratings may be a result of screening cultivars in recent years that have been less conducive to fungal pathogens, such as Blackleg. If sowing crops in May/June into cold and wet conditions, Blackleg severity may be higher than observed in recent times.

**TABLE 15 Canola disease guide for Victoria (continued).**

Variety	2020 autumn Blackleg rating				Type
	Bare	Jockey®	ILeVO®	Saltro®	
ROUNDUP READY® VARIETIES					
DG 408RR	MR-MS		R	R	Hybrid
Hyola® 404RR	R-MR			R	Hybrid
InVigor® R 3520	R-MR	R	R		Hybrid
InVigor® R 5520P	MR	R	R		Hybrid
Nuseed® GT-53	R				Hybrid
Pioneer® 43Y23 RR	R-MR				Hybrid
Pioneer® 43Y29 RR	R-MR		R	R	Hybrid
Pioneer® 44Y27 RR	R-MR		R		Hybrid
VICTORY® V5003RR	R-MR	R	R	R	High stability oil, hybrid
ROUNDUP READY® AND TRIAZINE-TOLERANT VARIETIES					
BASF 3000 TR	MS-S	MR	R	R	Hybrid
TRUFLEX® HYBRID VARIETIES					
Hyola® 410XX	R-MR			R	Hybrid
InVigor® R 4022P	MR		R		Hybrid
Xseed™ Raptor	R				Hybrid
TRUFLEX® AND CLEARFIELD® VARIETIES					
Hyola® 540XC	R				Hybrid
TRUFLEX®AND TRIAZINE-TOLERANT VARIETIES					
Hyola® 530XT	MR				Hybrid

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

Note: Cultivars with higher Blackleg ratings may be a result of screening cultivars in recent years that have been less conducive to fungal pathogens, such as Blackleg.

If sowing crops in May/June into cold and wet conditions, Blackleg severity may be higher than observed in recent times.

# USEFUL LINKS AND FURTHER INFORMATION

## NVT Harvest Reports for all regions

[grdc.com.au/harvestreports](http://grdc.com.au/harvestreports)

## Variety Central

[varietycentral.com.au](http://varietycentral.com.au)

## NVT Overview Podcast (1 November 2018)

[grdc.com.au/news-and-media/audio/podcast/nvt-overview](http://grdc.com.au/news-and-media/audio/podcast/nvt-overview)

## NVT Overview Video (29 October 2019)

[youtu.be/ThGjxFXR\\_ug](https://youtu.be/ThGjxFXR_ug)

## NVT Southern Region (29 October 2019)

[youtu.be/uagizCbCalg](https://youtu.be/uagizCbCalg)

## How to navigate NVT's website (10 February 2019)

[youtu.be/GbasB-xUIQA](https://youtu.be/GbasB-xUIQA)

## How to interpret NVT data (long term yield results) using the NVT website (10 February 2019)

[youtu.be/eS4UbszsEAg](https://youtu.be/eS4UbszsEAg)