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NVT HARVEST REPORT



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HIGH RAINFALL SA-VIC-TAS

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The Harvest Reports for all regions can be downloaded at:
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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 South Australian Crop Sowing Guide* for further information at grdc.com.au/NVT-south-australian-crop-sowing-guide

Refer to the *2020 Victorian Crop Sowing Guide* for further information at 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 High Rainfall SA-VIC-TAS. 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 High Rainfall SA-VIC-TAS 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 South Australian Crop Sowing Guide* for further information at grdc.com.au/NVT-south-australian-crop-sowing-guide

Refer to *2020 Victorian Crop Sowing Guide* for further information at grdc.com.au/NVT-Victorian-Winter-Crop-Summary

INTERPRETING LONG-TERM YIELD DATA

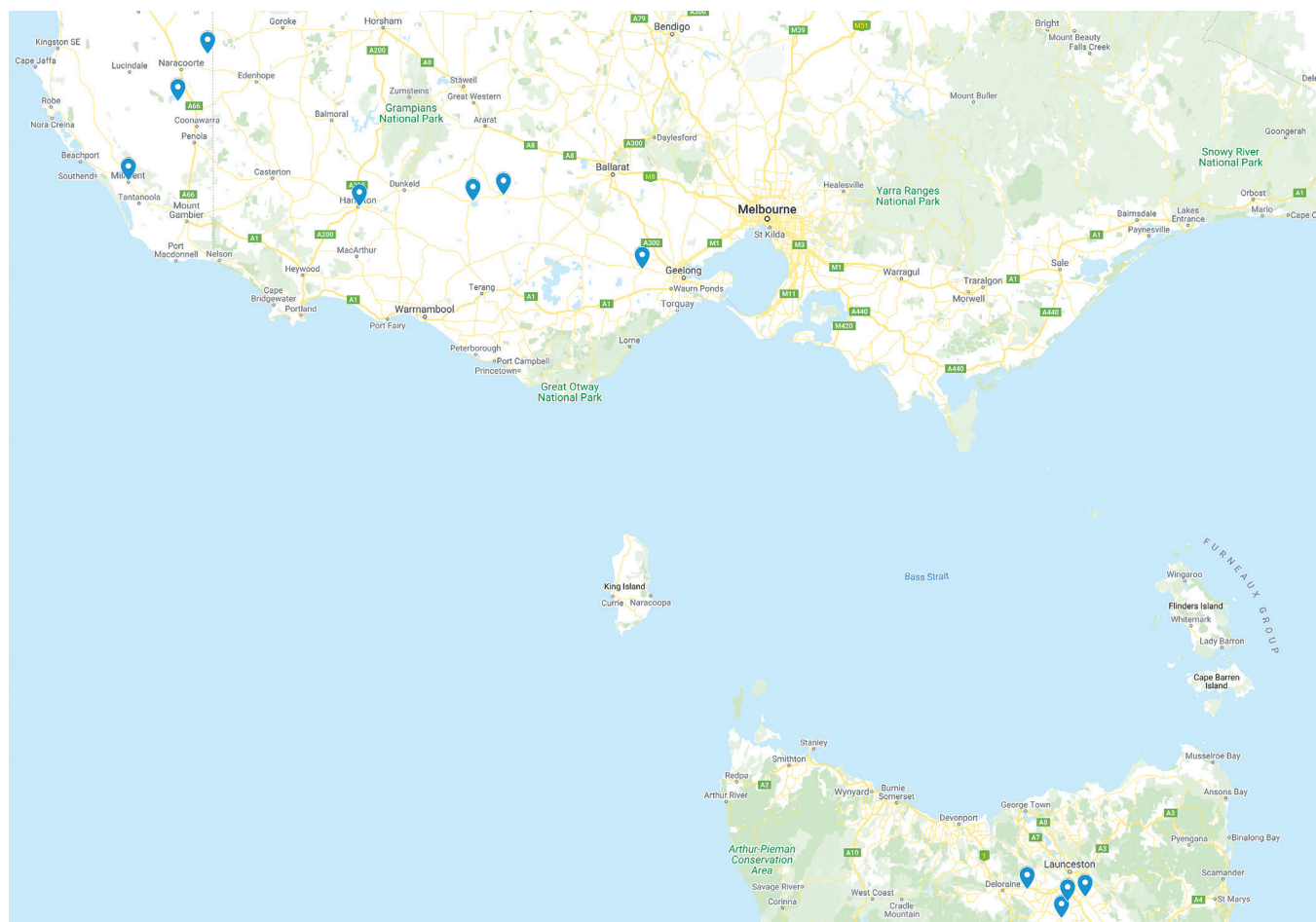
A factor analytic (FA) mixed model approach is used in the multi-environment trial (MET) analysis conducted by GRDC, supported by the Statistics for the Australian Grains Industry (SAGI) program. This approach generates long-term MET values for varieties at an individual trial level.

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 High Rainfall SA-VIC-TAS 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 High Rainfall SA-VIC-TAS.

NVT SITE LOCATIONS – HIGH RAINFALL SA-VIC-TAS 2015–2019

FIGURE 1 Location of NVT trial sites in High Rainfall SA-VIC-TAS from 2015–2019.



SOURCE: NVT ONLINE

WHEAT

NEW WHEAT VARIETIES

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

Variety	Breeding company	End Point Royalty* (\$)	Comments supplied by breeding company
Catapult [♢]	Australian Grain Technologies	3.25	Longer season than Scepter [♢] , with a mid-late maturity allowing growers to achieve Scepter [♢] -like yields when sown in late April. Catapult [♢] has a very flexible sowing window with wide adaptation and is viewed as a great alternative to Trojan [♢] , Magenta [♢] , Cutlass [♢] and Yitpi [♢] . Catapult [♢] offers a unique combination of features to growers with Australian Hard quality (WA/SA/VIC/southern NSW).
EG Jet [♢]	Elders/Seedmark	n/a	Not supplied
RockStar [♢]	InterGrain	3.50	High-yielding, mid-late flowering variety with a similar time to flowering as LRPB Trojan [♢] and Magenta [♢] . 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 [♢] 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 [♢] . RockStar [♢] is an excellent varietal alternative to LRPB Trojan [♢] , Magenta [♢] , Yitpi [♢] and Cutlass [♢] .

n/a not available, * EPR amount is ex-GST, [♢] denotes Plant Breeder's Rights apply.

Refer to *2020 South Australian Crop Sowing Guide* for further information at grdc.com.au/NVT-south-australian-crop-sowing-guide

Refer to the *2020 Victorian Crop Sowing Guide* for further information at grdc.com.au/NVT-Victorian-Winter-Crop-Summary

WHEAT

BARLEY

OAT

CANOLA

WHEAT VARIETY YIELD PERFORMANCE – HIGH RAINFALL SA-VIC-TAS

The following tables contain yield results from the top-performing varieties within each NVT location in High Rainfall SA-VIC-TAS 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 Conmurra main season wheat.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	6.16	4.43			7.65
LRPB Trojan ^d	109	113	Trial failed	Trial failed	117
RockStar ^d					115
LRPB Cobra ^d	112	107			112
RGT Zanzibar		111			118
LRPB Beaufort ^d					113
Beckom ^d	106	108			111
Catapult ^d					109
Vixen ^d		104			105
Scepter ^d	109	106			105
Cutlass ^d	99	108			109
CLEARFIELD® PLUS					
Sheriff CL Plus ^d		105			105
Razor CL Plus ^d					100
Chief CL Plus ^d		98			95
Sowing date	28 May	17 May	11 May	17 May	14 May
Rainfall J–M (mm)	71	74	139	31	53
Rainfall A–O (mm)	347	804	552	571	429

For more information click this [LINK](#)

TABLE 3 Hamilton early season wheat.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	5.57	7.32		4.87	6.28
RockStar ^{db}			Trial failed		118
RGT Zanzibar		119		116	118
LRPB Beaufort ^{db}	110	121		119	117
RGT Accroc	104	127		116	117
Catapult ^{db}				115	113
RGT Calabro	96	124		114	112
Scepter ^{db}				114	111
DS Bennett ^{db}		118		110	110
SF Adagio	100	117		109	109
Beckom ^{db}	116	102		112	109
CLEARFIELD® PLUS					
Sheriff CL Plus ^{db}					109
Elmore CL Plus ^{db}	96	98		96	97
Sowing date	22 May	14 May	11 May	9 May	16 May
Rainfall J–M (mm)	37	98	118	39	33
Rainfall A–O (mm)	393	675	458	328	422

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 Conmurra early season wheat.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	5.90	5.60	5.85	7.58	8.05
RGT Calabro	107	128	117	121	129
RGT Accroc	109	124	115	123	126
SF Adagio	109	118	111	114	123
LRPB Beaufort ^{db}	107	120	115	116	117
Manning ^{db}	98	123	109	117	120
RGT Zanzibar		112	110	114	116
DS Bennett ^{db}		116	109	115	112
RockStar ^{db}					110
EG Jet ^{db}					112
Illabo ^{db}		103	104	103	110
CLEARFIELD® PLUS					
Sheriff CL Plus ^{db}					104
Elmore CL Plus ^{db}	96	97	96	99	95
Sowing date	15 May	4 May	28 Apr	20 Apr	17 Apr
Rainfall J–M (mm)	71	74	139	31	53
Rainfall A–O (mm)	347	864	552	571	429

For more information click this [LINK](#)

TABLE 4 Inverleigh early season wheat.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)		6.86	6.95	5.26	6.80
RGT Calabro	No trial	123	102	120	128
RockStar ^{db}					119
SF Adagio		119	102	117	126
RGT Accroc		121	104	114	123
EG Jet ^{db}			106	114	124
LRPB Beaufort ^{db}		118	111	111	115
LRPB Trojan ^{db}		113	113	112	116
RGT Zanzibar		116	110	108	115
Beckom ^{db}		111	114	109	112
SQP Revenue ^{db}		115	95	115	121
CLEARFIELD® PLUS					
Sheriff CL Plus ^{db}					106
Elmore CL Plus ^{db}		93	96	93	90
Sowing date		11 May	22 May	3 May	4 May
Rainfall J–M (mm)		66	78	59	47
Rainfall A–O (mm)		424	296	223	320

For more information click this [LINK](#)

TABLE 5 Evandale long season wheat.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)			7.75	10.63	11.40
RGT Accroc	No trial	No trial	109	125	117
RGT Calabro			111	114	111
SF Hekto			112	114	109
Manning ^{db}			113	114	107
SQP Revenue ^{db}			107	115	108
LRPB Beaufort ^{db}			106	109	113
SF Adagio			107	112	108
DS Bennett ^{db}			108	109	110
RGT Zanzibar			106		106
Einstein			109	102	100
Sowing date			4 May	15 May	20 May
Rainfall J–M (mm)			78	173	114
Rainfall A–O (mm)			341	374	325

Trial has supplementary irrigation
For more information click this [LINK](#)

TABLE 6 Hamilton long season wheat.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	5.33	7.10	5.05	5.16	5.95
RGT Accroc	113	125	126	118	123
RGT Zanzibar		117	111	110	119
DS Bennett ^{db}		122	110	112	118
LRPB Beaufort ^{db}	110	123	108	116	118
RGT Calabro	108	124	110	112	115
SF Adagio	112	116	113	108	113
Manning ^{db}	108	118	112	107	110
SQP Revenue ^{db}	105	122	104	106	114
LRPB Trojan ^{db}	122	107	101	102	110
Illabo ^{db}		102	101	97	106
Sowing date	14 Apr	5 May	24 Apr	23 Apr	9 May
Rainfall J–M (mm)	37	98	118	39	33
Rainfall A–O (mm)	393	675	458	328	422

For more information click this [LINK](#)

TABLE 7 Streatham long season wheat.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	2.28	7.82		5.41	
RGT Accroc	124	127	Trial failed	113	Delayed harvest and not analysed
SQP Revenue ^{db}	112	121		120	
LRPB Beaufort ^{db}	131	124		106	
DS Bennett ^{db}		122		108	
RGT Calabro	93	124		117	
RGT Zanzibar		117		99	
SF Adagio	110	116		110	
Manning ^{db}	72	119		119	
LRPB Trojan ^{db}	136	106		95	
DS Pascal ^{db}	128	103		99	
Sowing date	28 Apr	27 Apr	30 Apr	14 Apr	1 May
Rainfall J–M (mm)	71	87	79	26	31
Rainfall A–O (mm)	230	522	364	199	402

For more information click this [LINK](#)

WHEAT VARIETY QUALITY – HIGH RAINFALL SA-VIC-TAS

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 either higher test weights or low grain screenings 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 the High Rainfall SA-VIC-TAS. Only the varieties evaluated at every site are included.

FIGURE 1 Test weight (kg/hl) comparisons for early season wheat varieties from three NVT sites in High Rainfall SA-VIC-TAS 2019.

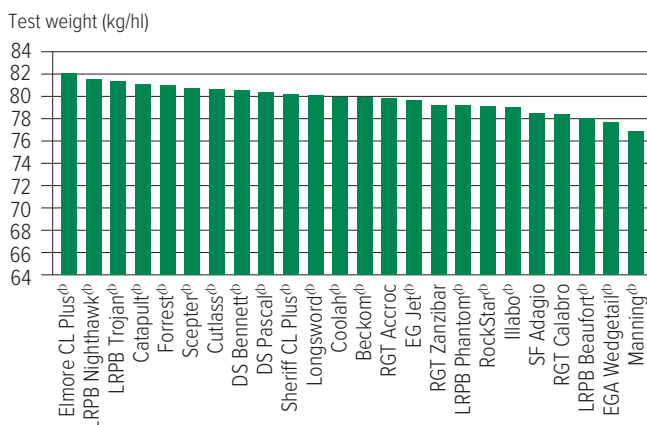


FIGURE 2 Test weight (kg/hl) comparisons for early season wheat varieties from three NVT sites in High Rainfall SA-VIC-TAS 2018.

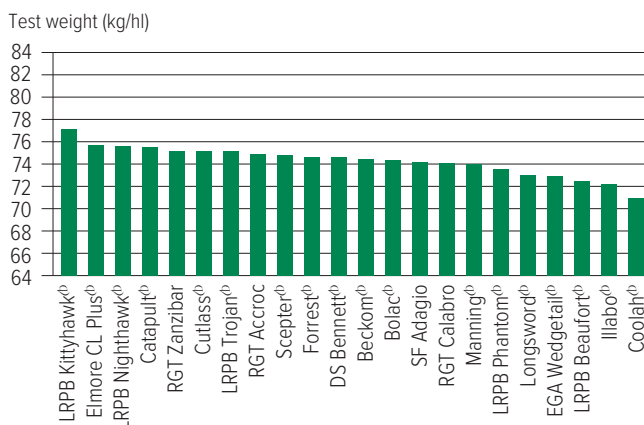


FIGURE 3 Test weight (kg/hl) comparisons for long season wheat varieties from two NVT sites in High Rainfall SA-VIC-TAS 2019.

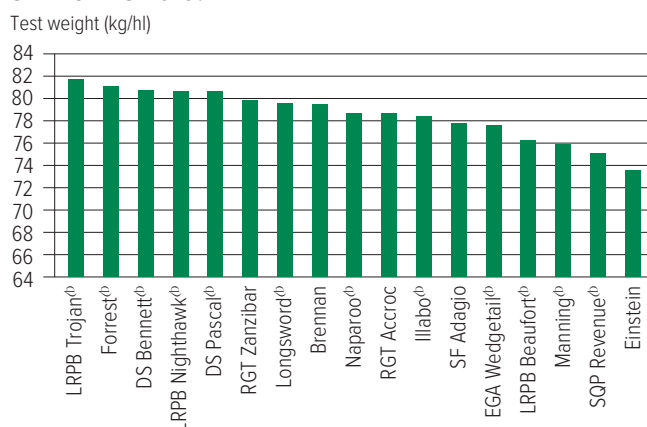


FIGURE 4 Test weight (kg/hl) comparisons for long season wheat varieties from three NVT sites in High Rainfall SA-VIC-TAS 2018.

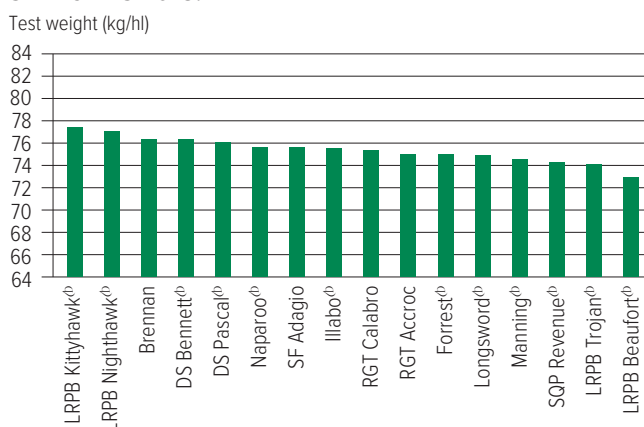


FIGURE 5 Screenings (<2.0mm) comparisons for early season wheat varieties from three NVT sites in High Rainfall SA-VIC-TAS 2019.

Screenings (% <2.0mm sieve)

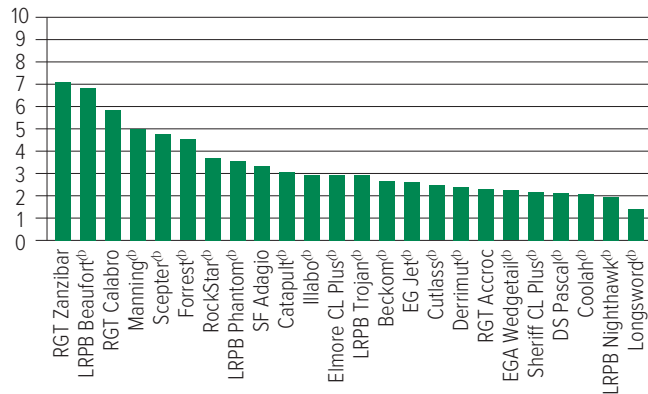


FIGURE 6 Screenings (<2.0mm) comparisons for early season wheat varieties from three NVT sites in High Rainfall SA-VIC-TAS 2018.

Screenings (% <2.0mm sieve)

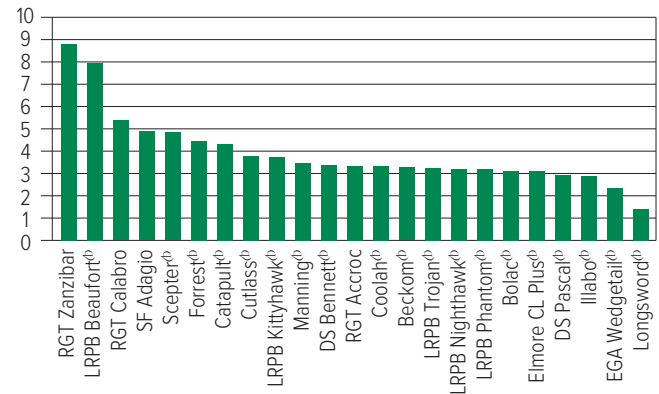


FIGURE 7 Screenings (<2.0mm) comparisons for long season wheat varieties from two NVT sites in High Rainfall SA-VIC-TAS 2019.

Screenings (% <2.0mm sieve)

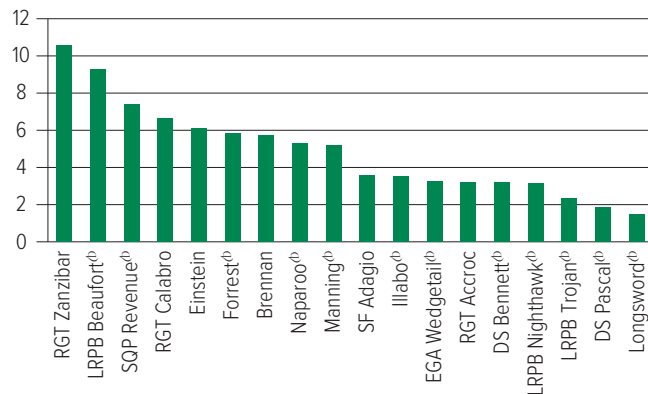
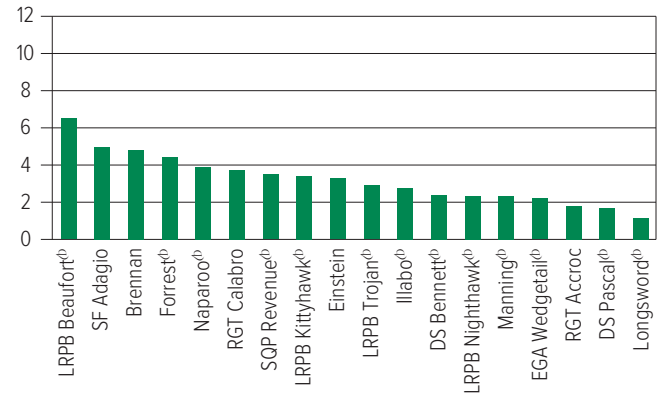


FIGURE 8 Screenings (<2.0mm) comparisons for long season wheat varieties from three NVT sites in High Rainfall SA-VIC-TAS 2018.

Screenings (% <2.0mm sieve)



WHEAT VARIETY DISEASE RATINGS – SOUTH AUSTRALIA AND VICTORIA

The following two tables contain varietal ratings for the predominant diseases of wheat in High Rainfall SA-VIC-TAS. As regionally specific differences in varietal reactions to some diseases can occur, varietal

responses for both South Australia and Victoria are provided.

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

TABLE 8 Wheat disease guide for South Australia.

Variety	Stem rust	Stripe rust	Leaf rust	Septoria tritici blotch	Yellow leaf spot	Powdery mildew	CCN
Beckom ^{db}	MRMS	MRMS	MSS	S	MSS		R
Catapult ^{db}	MR	MRMS	S	MSS	MRMS	S	R
Chief CL Plus ^{db}	MR	S	MR	MSS	MRMS	SVS	MS
Cobalt ^{db}	S	RMR	MS	S	MS		MSS
Cutlass ^{db}	R	MS	R	MSS	MSS		MR
DS Bennett ^{db}	MRMS	S	SVS	MSS	MRMS	R	S
Emu Rock ^{db}	MS	MSS	SVS	SVS	MRMS		S
Grenade CL Plus ^{db}	MR	MRMS	S	S	S		R
Illabo ^{db}	MRMS	MR _p	S	MSS	MS	R	MRMS
Longsword ^{db}	MR	MR	MSS	MSS	MRMS	MSS	MRMS
LRPB Arrow ^{db}	S	S	SVS	S	MRMS	S	MS
LRPB Cobra ^{db}	MR [^]	MSS	MR/S	MSS	MRMS		MS
LRPB Havoc ^{db}	S	MR	MSS	S	MRMS		S
LRPB Impala ^{db}	MR	MR	SVS	SVS	MSS		MSS
LRPB Kittyhawk ^{db}		RMR		MRMS	MRMS		S
LRPB Nighthawk ^{db}	RMR	RMR	MSS	MSS	MS	S	MS
LRPB Trojan ^{db}	MRMS	MSS	MR/MS	MS	MSS	S	MS
Manning ^{db}	MR	RMR	MSS	MRMS	MR		S
Razor CL Plus ^{db}	MRMS	MS	S	SVS	MSS	MSS	MR
RGT Accroc	MS	R	SVS	MRMS	MR		S
RGT Calabro	MS	RMR	MSS	MRMS	MR		S
Scepter ^{db}	MRMS	MSS	MSS	S	MRMS	SVS	MRMS
Sheriff CL Plus ^{db}	MS	MSS	SVS	S	MRMS	SVS	MS
Tenfour ^{db}	SVS	SVS	MSS	S	MRMS		MS
Vixen ^{db}	MRMS	MRMS	SVS	S	MRMS	S	MSS
DURUM							
Bitalli ^{db}	MR	MS	MR	MRMS	MRMS	S	S
DBA Artemis ^{db}	MR [^]	MS	RMR	MRMS	MRMS	MSS	MS
DBA-Aurora ^{db}	RMR	MRMS	R	MR	MRMS	S	MSS
DBA Spes ^{db}	R	MS	R	MRMS/SVS	MRMS	MSS	MS
DBA Vittaro ^{db}	MR	MS	MR	MS	MRMS		S
Westcourt ^{db}	RMR	MR	RMR	MS	MRMS	MSS	MSS

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

[^] line contains a few susceptible off types.

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 ^{db}	MRMS	MRMS	MSS	MSS	S		R	S	MSS	S	MSS	MRMS
Catapult ^{db}	MR	MRMS	S	MRMS	MSS	S	R	S	MS	Sp	MS	MS/RMR
Chief CL Plus ^{db}	MR	S	MR	MRMS	MSS	SVS	MS	MRMS	MSS	MSS	MS	SVS
Cobalt ^{db}	S	RMR	MS	MS	S		MSS	S	S	S	MSS	RMR
Condo ^{db}	MR	MSS	MSS	MS	S		MR	S	MS	S	MSS	MSS
Coolah ^{db}	MR	RMR	RMR/MS	MSS	MSS		S	S	MS	MSS	S	R
Corack ^{db}	MR	MS	SVS	MRMS	S	VS	RMR	MSS	MSS	S	MS	S
Cosmick ^{db}	MS	MSS	SVS	MRMS	S		S	S	MSS	S	MSS	SVS
Cutlass ^{db}	R	MS	R	MSS	MSS		MR	MSS	MSS	S	MS	MSS
DS Bennett ^{db}	MRMS	S	SVS	MRMS	MSS	R	S	S	S	VS	S	SVS
DS Darwin ^{db}	MRMS	MRMS	MSS	S	S		MSS	S	S	S	MSS	MR
DS Pascal ^{db}	MSS	RMR	MS	MRMS	MSS		S	S	S	S	MS	S
EGA Gregory ^{db}	MR	MR	RMR/MS	S	MSS		S	S	MSS	S	MSS	MSS
EGA Wedgetail ^{db}	MRMS	MS	MSS	MSS	MSS		S	SVS	VS	S		
Elmore CL Plus ^{db}	MR	MRMS	RMR	S	MSS		S	S	S	S	S	MSS
Emu Rock ^{db}	MS	MSS	SVS	MRMS	SVS		S	MSS	S	MSS	MS	MS/MR
Grenade CL Plus ^{db}	MR	MRMS	S	S	S		R	MSS	S	S	MS	MR
Hatchet CL Plus ^{db}	MS	MSS	SVS	S	SVS		MR	MSS	MSS	S	MS	RMR
Illabo ^{db}	MRMS	MR ^p	S	MS	MSS	R	MRMS	S	S	Sp	MSS	R
Kiora	MR	RMR	MRMS	MSS	MSS		MS	S	MRMS	S	MS	MRMS
Longsword ^{db}	MR	MR	MSS	MRMS	MSS	MSS	MRMS	MRMS	MR	MSS	MS	MRMS
LRPB Arrow ^{db}	S	S	SVS	MRMS	S	S	MS	MRMS	MS	MSS	MS	MS
LRPB Cobra ^{db}	MR [^]	MSS	MR/S	MRMS	MSS		MS	MSS	MSS	S	MS	S
LRPB Hellfire ^{db}	MR	MR	MSS	MS	S	MSS	MRMS	S	MSS	MSS ^p	MSS	MS/RMR
LRPB Impala ^{db}	MR	MR	SVS	MSS	SVS		MSS	SVS	S	MSS	MSS	S
LRPB Kittyhawk ^{db}		RMR		MRMS	MRMS		S	S	S	SVS	S	RMR
LRPB Lancer ^{db}	R	MR	RMR/MS	MRMS	MS		S	S	MS	MSS	S	MSS
LRPB Nighthawk ^{db}	RMR	RMR	MSS	MS	MSS	S	MS	S	MS	MSS ^p	MSS	MSS
LRPB Parakeet ^{db}	MR	RMR	R	MSS	S	S	MS	MRMS	S	MSS	MS	MSS
Mace ^{db}	MRMS	SVS	MSS	MRMS	S	MSS	MRMS	MS	MS	S	MS	S
Manning ^{db}	MR	RMR	MSS	MR	MRMS		S	MSS	S	VS	SVS	R
Mitch ^{db}	MRMS	MR	MSS	MSS	S		S	S	S	MS	MS	S
Razor CL Plus ^{db}	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 ^p	SVS	MSS	RMR

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

[^] 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 _p	S	S	SVS
RockStar ^{db}	MR	MRMS	S	MRMS	MSS	S	MSS	MRMS	MRMS	Sp	MS	VS
Scepter ^{db}	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 ^{db}	MS	MSS	SVS	MRMS	S	SVS	MS	MRMS	MRMS	S	MS	S
SQP Revenue ^{db}	RMR [^]	R	VS	MRMS	MSS		S	S	S	S	SVS	S
Sunlamb ^{db}	RMR	MRMS	MS	MRMS	MR		MR	MSS	MSS	S	MS	S
Suntop ^{db}	MRMS	MRMS	MR	MSS	MSS		S	S	MRMS	MSS	MS	R
Tenfour ^{db}	SVS	SVS	MSS	MRMS	S		MS	S	S	MSS	MS	MR
Vixen ^{db}	MRMS	MRMS	SVS	MRMS	S	S	MSS	MRMS	MS	S	MS	SVS
Yitpi ^{db}	S	MS	S	SVS	MSS		MR	MSS	S	S	MS	MR
DURUM												
Bitalli ^{db}	MR	MS	MR	MRMS	MRMS	S	S	MSS	RMR	SVSp	MS	R
DBA-Aurora ^{db}	RMR	MRMS	R	MRMS	MR	S	MSS	MRMS	RMR	VS	MSS	
DBA Spes ^{db}	R	MS	R	MRMS	MRMS/SVS	MSS	MS	MRMS	RMR	VS	MS	R
DBA Vittaroi ^{db}	MR	MS	MR	MRMS	MS		S	MS	MR	SVS	MSS	R
Westcourt ^{db}	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,

[^] 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 South Australian Crop Sowing Guide* and the *2020 Victorian Crop Sowing Guide* were published.

Variety	Breeding company	End Point Royalty* (\$)	Comments supplied by breeding company
Leabrook [Ⓛ]	University of Adelaide	3.80	Mid-early maturing, medium-tall variety under malting evaluation. Bred for yield and grain size improvement over Compass [Ⓛ] .
Maximus CL [Ⓛ]	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, [Ⓛ] denotes Plant Breeder's Rights apply.

Refer to *2020 South Australian Crop Sowing Guide* for further information at grdc.com.au/NVT-south-australian-crop-sowing-guide

Refer to the *2020 Victorian Crop Sowing Guide* for further information at grdc.com.au/NVT-Victorian-Winter-Crop-Summary

WHEAT

BARLEY

OAT

CANOLA

BARLEY VARIETY YIELD PERFORMANCE – HIGH RAINFALL SA-VIC-TAS

The following tables contain yield results from the top-performing varieties within each NVT location in High Rainfall SA-VIC-TAS 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 Hamilton long season barley.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	6.48	8.19		4.98	5.87
RGT Planet ^{db}		114	Trial failed	108	116
Topstart	102	112		101	107
Oxford	102	110		100	107
Bottler ^{db}		108		103	108
Rosalind ^{db}	105	101		107	103
LG Maltstar ^{db}	103	106		98	100
Capstan	103	106		97	99
LG Alestar ^{db}	102	99		101	101
Fairview ^{db}	103	99		98	98
Banks ^{db}	99	96		102	104
CLEARFIELD®					
Maximus CL ^{db}					113
Spartacus CL ^{db}	102	88		106	99
Sowing date	22 May	14 May	11 May	9 May	16 May
Rainfall J–M (mm)	37	98	118	39	33
Rainfall A–O (mm)	393	675	458	328	422

For more information click this [LINK](#)

TABLE 3 Streatham long season barley.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	3.25	6.76	4.35	4.26	5.32
RGT Planet ^{db}		115	112	108	110
Rosalind ^{db}	118	103	116	99	103
Topstart	94	111	107	98	105
Oxford	92	109	100	105	105
LG Alestar ^{db}	105	100	99	107	102
Bottler ^{db}		108	107	97	103
LG Maltstar ^{db}	100	105	104	97	102
Leabrook ^{db}	119	93	112	96	96
CLEARFIELD®					
Maximus CL ^{db}					104
Spartacus CL ^{db}	121	92	103	109	100
Sowing date	15 May	21 May	9 May	16 May	22 May
Rainfall J–M (mm)	71	87	79	26	31
Rainfall A–O (mm)	230	522	364	199	402

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 Inverleigh long season barley.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)		6.92	6.00		5.78
RGT Planet [Ⓓ]	No trial	114	110	Trial failed	114
Rosalind [Ⓓ]		108	107		109
Topstart		107	106		103
Oxford		107	103		105
LG Alestar [Ⓓ]		104	100		107
Fairview [Ⓓ]		104	99		106
LG Maltstar [Ⓓ]		105	102		101
Capstan		105	101		102
Bottler [Ⓓ]		103	105		99
Banks [Ⓓ]		99	98		104
CLEARFIELD [®]					
Maximus CL [Ⓓ]					105
Spartacus CL [Ⓓ]		101	99		110
Sowing date		15 May	15 May	15 May	19 May
Rainfall J–M (mm)		66	78	59	47
Rainfall A–O (mm)		424	296	228	320

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 either higher test weights, lower grain screenings or higher retention under a wider range of environments. For High Rainfall SA-VIC-TAS

the Victorian main season barley quality data has been presented. Although this data relates to main season trials, many of the varieties are relevant to long season, higher rainfall areas of Vic. 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.

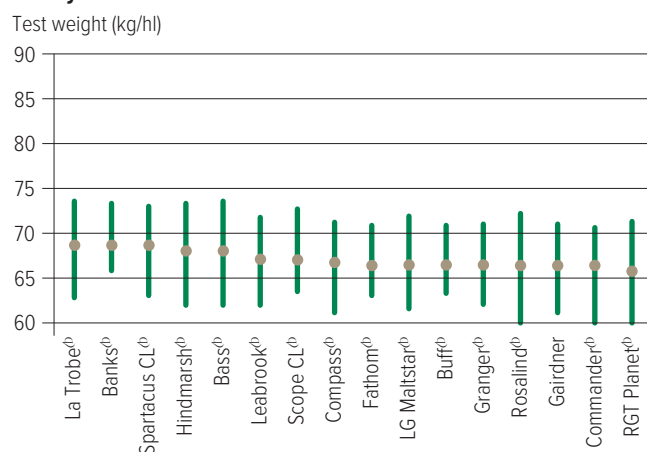


FIGURE 2 Test weight (kg/hl) comparisons for main season barley varieties from 10 NVT sites in Victoria 2018.

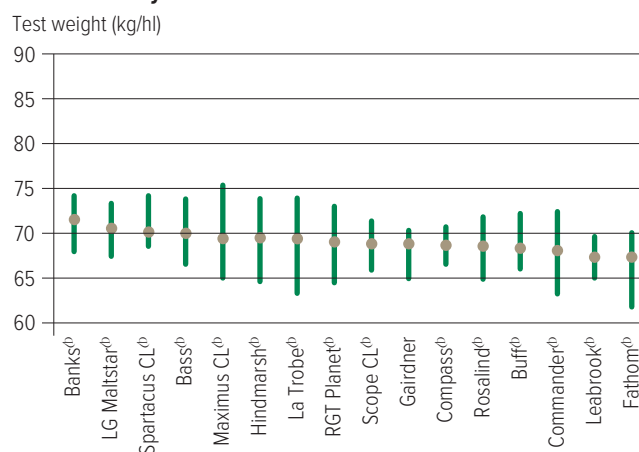


FIGURE 3 Screenings (<2.2mm) comparisons for main season barley varieties from 11 NVT sites in Victoria 2019.

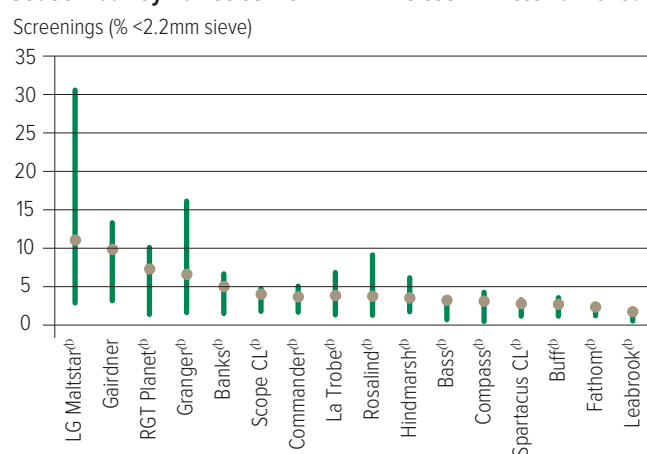


FIGURE 4 Screenings (<2.2mm) comparisons for main season barley varieties from 10 NVT sites in Victoria 2018.

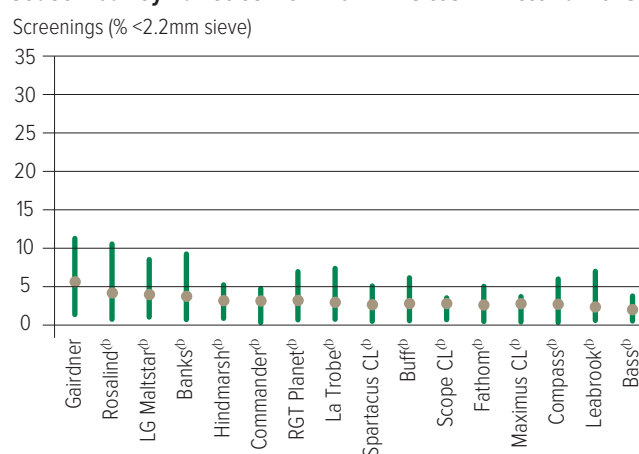


FIGURE 5 Retention (>2.5mm) comparisons for main season barley varieties from 11 NVT sites in Victoria 2019.

Retention (% >2.5mm sieve)

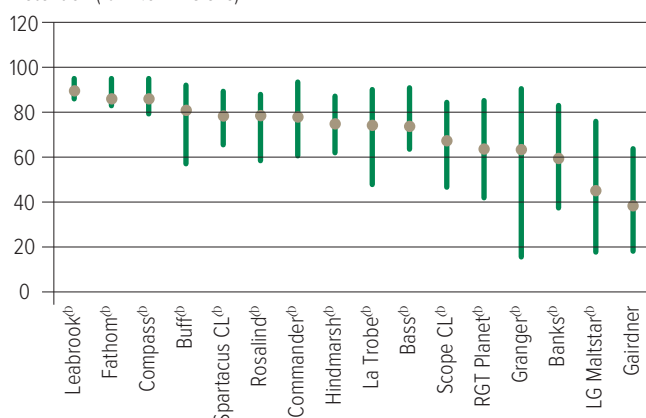
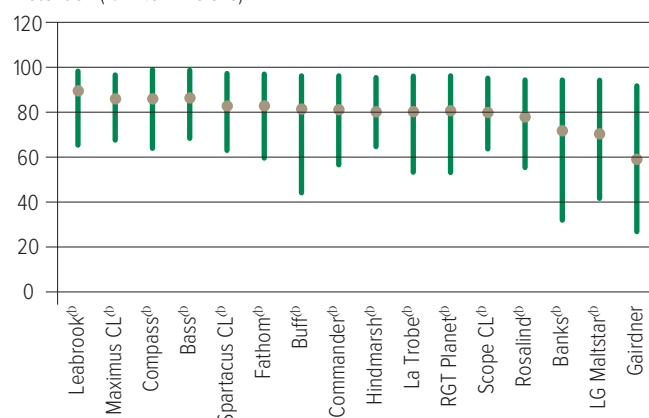


FIGURE 6 Retention (>2.5mm) comparisons for main season barley varieties from 10 NVT sites in Victoria 2018.

Retention (% >2.5mm sieve)



BARLEY VARIETY DISEASE RATINGS – SOUTH AUSTRALIA AND VICTORIA

The following two tables contain varietal ratings for the predominant diseases of barley in High Rainfall SA-VIC-TAS. As regionally specific differences in varietal reactions to some diseases can occur, varietal

responses for both South Australia and Victoria are provided.

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

TABLE 4 Barley disease guide for South Australia.

Variety	CCN	Leaf rust	Net form net blotch	Spot form net blotch	Leaf scald	Powdery mildew	Blackpoint
LG Alestar ^h	R [^]	R-MS	MR-S	MSS	MS-SVS	RMR	MRMS
Banks ^h	S	MR-S	R-MRMS	MRMS-S	R-SVS	MR-MS	MS
Buloke ^h	S		MR		MRMS-S	RMR	MS
Commander ^h	R	MS-S	MS-VS	MSS	MR-SVS	MRMS	MSS
Compass ^h	R	SVS	MR-MSS	MRMS-MSS	MR-SVS	MRMS-S	MSS
Fathom ^h	R	MRMS-S	MS-VS	RMR	R-S	MRMS	MSS
Flinders ^h	S	MRMS-S	MRMS	MRMS-S	MR-SVS	RMR	MRMS
Granger ^h	R	MR-MS	R-MSS	MS-S	MRMS-SVS	R	MS
Hindmarsh ^h	R	MRMS-S	MR-MS	S	R-SVS	MR-SVS	MSS
Keel	R	VS	S	MR	R-SVS	SVS	MSS
Leabrook ^h	MRMS	MS-SVS	MR-MS	MR-MS	R-SVS	MR-MS	MSS
Maritime ^h	R		R-VS		MR-SVS	S	MSS
Maximus CL ^h	R	MS-S	RMR-MRMS	MRMS-MS	R-MRMS	MR-S	MSS
Oxford	S	R-MS	MR-VS	MS-S	MS-SVS	R	MR
RGT Planet ^h	R ^p	MR-MS	MR-SVS	S-SVS	R-SVS	R	MRMS
Rosalind ^h	R	MR-MS	MR	MS-S	MR-S	MRMS-S	MSS
Schooner	VS	S-VS	MR	MS	MS-S	SVS	MS
Scope CL ^h	S	MS-SVS	MR	MS-S	MRMS-SVS	RMR	MS
Spartacus CL ^h	R	MR-S	MSS-SVS	S	R-SVS	MR-SVS	MSS
Westminster ^h		R-MRMS	R-S	S	R-S	R	MRMS

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, ^p = provisional rating.

- hyphen indicates a range of reactions, [^] line contains a few susceptible off types.

TABLE 5 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 ^{db}	S	S	S	RMR	MS	R [^]	MR	MR
Banks ^{db}	SVS	S	MRMS	MRMS	S	S	MRMS	MR
Bottler ^{db}	SVS	S	MS	R	MS		MS	RMR
Buff ^{db}	SVS	S	MS	S	SVS		MRMS	MRMS
Commander ^{db}	SVS	MSS	MS#	MRMS	S	R	MRMS	MRMS
Compass ^{db}	SVS	MS	MSS	MRMS	SVS	R	MRMS	MR
Fairview ^{db}	SVS	S	SVS	R	S		MR	MR
Fathom ^{db}	S	RMR	MS	MRMS	S	R	MRMS	MR
Gairdner	SVS	S	MRMS#	SVS	S	S	MRMS	MSS
Granger ^{db}	SVS	S	MSS	RMR	MS	R	MRMS	MRMS
Hindmarsh ^{db}	SVS	SVS	MS	SVS	S	R	MRMS	MRMS
La Trobe ^{db}	SVS	S	MS	MS#	S	R	MRMS	MRMS
Leabrook ^{db}	SVS	MS	MR _p	MRMS	SVS	MRMS	MR	RMR
Maximus CL ^{db}	MRMS	MS	MRMS	S	S	R	MRMS	MRMS
Oxford	SVS	S	VS	R	MS	S	MR	MR
RGT Planet ^{db}	SVS	S	SVS	R	MS	R _p	MRMS	MR
Rosalind ^{db}	S	S	MR	SVS	MR	R	MRMS	MR
Scope CL ^{db}	S	MSS	MR#	RMR	S	S	MRMS	MRMS
Shepherd ^{db}	VS	SVS	MSS	S	MRMS		MRMS	MSS
Spartacus CL ^{db}	SVS	SVS	MSS	SVS	S	R	MRMS	MRMS
Westminster ^{db}	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, ^ 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 South Australian Crop Sowing Guide* and the *2020 Victorian Crop Sowing Guide* were published.

Variety	Breeding company	End Point Royalty* (\$)	Comments supplied by breeding company
Bilby ^{db}	National Oat Breeding Program	2.50	High grain yield potentials and high β -glucan content with bright plump grain and high groat per cent leading to higher milling yield for processing.
Koorabup ^{db}	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, ^{db} denotes Plant Breeder's Rights apply.

Refer to *2020 South Australian Crop Sowing Guide* for further information at grdc.com.au/NVT-south-australian-crop-sowing-guide

Refer to the *2020 Victorian Crop Sowing Guide* for further information at grdc.com.au/NVT-Victorian-Winter-Crop-Summary

WHEAT

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OAT VARIETY YIELD PERFORMANCE – HIGH RAINFALL SA-VIC-TAS

The following tables contain yield results from the top-performing varieties within each NVT location in High Rainfall SA-VIC-TAS 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 Frances oat.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)		4.67	5.18		5.00
Bannister ^{db}	Trial failed	126	114	Trial failed	104
Williams ^{db}		113	114		108
Bilby ^{db}		115	110		100
Wombat		110	101		105
Kowari ^{db}		108	104		97
Possum		103	101		99
Mitika ^{db}		106	100		97
Durack ^{db}		88	97		95
Yallara ^{db}		79	92		93
Koorabup ^{db}		86	90		87
Sowing date	26 May	16 May	16 May	24 May	31 May
Rainfall J–M (mm)	78	66	107	40	22
Rainfall A–O (mm)	253	529	416	403	294

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 Hamilton oat.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	4.67	6.09	3.32		5.46
Bannister ^{db}	108	138	106	Trial failed	124
Echidna	90	132	104		120
Bilby ^{db}	100	125	114		108
Williams ^{db}	112	113	102		114
Kowari ^{db}	91	107	117		96
Possum	95	100	108		97
Mitika ^{db}	87	97	116		93
Yallara ^{db}	95	80	91		83
Durack ^{db}	87	75	111		77
Koorabup ^{db}	81	80	100		80
Sowing date	22 May	14 May	11 May	9 May	16 May
Rainfall J–M (mm)	37	98	118	39	33
Rainfall A–O (mm)	393	675	458	328	422

For more information click this [LINK](#)

TABLE 3 Streatham oat.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	2.15	6.24	2.90	3.85	4.35
Bannister ^{db}	108	126	126	100	123
Williams ^{db}	96	117	117	95	123
Echidna	105	113	123	106	109
Bilby ^{db}	112	112	118	97	111
Kowari ^{db}	110	98	111	96	100
Possum	106	96	101	99	98
Mitika ^{db}	109	90	105	97	95
Yallara ^{db}	85	89	94	97	91
Koorabup ^{db}	84	83	106	95	90
Durack ^{db}	97	81	98	91	90
Sowing date	15 May	21 May	9 May	16 May	23 May
Rainfall J–M (mm)	71	87	79	26	31
Rainfall A–O (mm)	230	522	364	199	402

For more information click this [LINK](#)

OAT VARIETY DISEASE RATINGS – SOUTH AUSTRALIA AND VICTORIA

The following table contains 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 2020. 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 susceptibility ratings.

TABLE 4 Oat disease guide for South Australia and Victoria.

Variety	Stem rust	Leaf (crown) rust	Barley yellow dwarf virus (BYDV)	Septoria blotch	Bacterial blight	Red leather leaf
Bannister ^{db}	S	S	MRMS	MSS	S	MSS
Bilby ^{db}	S	MR	MRMS _p	SVS	S	MS
Durack ^{db}	S	MSS	MSS	S	S	S
Koorabup ^{db}	S	MSS	MSS _p	MRMS-SVS _p	MSS	SVS
Kowari ^{db}	S	S	MSS	S	MSS	MS
Mitika ^{db}	S	S	S	SVS	MSS _p	S
Williams ^{db}	S	MRMS	MRMS	MS	MSS	MS
Wombat	S	SVS	MRMS	MR-MSS _p	S	S
Yallara ^{db}	S	MSS	MSS	MR-S _p	MSS	SVS

R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible, VS = very susceptible, _p = 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 South Australian Crop Sowing Guide* and the *2020 Victorian Crop Sowing Guide* were published.

Variety	Breeding company	End Point Royalty* (\$)	Comments supplied by breeding company
Hyola® 540XC	Pacific Seeds	n/a	Mid to mid-early maturing GM dual herbicide tolerant hybrid. World-first TruFlex® + Clearfield® tolerant hybrid in a new Australian canola market segment to cater for imidazoline soil residues and the use of glyphosate in-crop. Adapted growing zones are from 1.5t/ha to 3.5t/ha, medium-tall plant height, excellent early vigour, moderate oil content and yields similar to Hyola® 404RR.
HyTTec® 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, [Ⓛ] denotes Plant Breeder's Rights apply.

Refer to *2020 South Australian Crop Sowing Guide* for further information at grdc.com.au/NVT-south-australian-crop-sowing-guide

Refer to the *2020 Victorian Crop Sowing Guide* for further information at grdc.com.au/NVT-Victorian-Winter-Crop-Summary

WHEAT

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CANOLA VARIETY YIELD PERFORMANCE – HIGH RAINFALL SA-VIC-TAS

The following tables contain yield results from the top-performing varieties within each NVT location in High Rainfall SA-VIC-TAS 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 Hamilton mid season CL canola.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	2.38	2.95	2.79	2.57	2.76
Pioneer® 45Y93 CL			111		116
Saintly CL	112	107	105	107	102
Pioneer® 45Y91 CL		107	105	106	107
VICTORY® V75-03CL				98	100
Hyola® 575CL	88	92	95	94	93
Sowing date	1 May	6 May	28 Apr	29 Apr	9 May
Rainfall J–M (mm)	30	98	114	37	33
Rainfall A–O (mm)	318	675	422	378	422

For more information click this [LINK](#)

TABLE 2 Inverleigh mid season CL canola.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)		2.69	3.23	2.56	3.65
Pioneer® 45Y93 CL			116		111
Saintly CL		114	113	111	102
Pioneer® 45Y91 CL	No trial	114	107	108	105
VICTORY® V75-03CL					100
Hyola® 575CL		88	90	90	95
Sowing date		1 May	6 May	19 Apr	2 May
Rainfall J–M (mm)		66	78	59	47
Rainfall A–O (mm)		424	296	228	320

For more information click this [LINK](#)

TABLE 3 Lake Bolac mid season CL canola.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)		2.62		2.50	2.80
Pioneer® 45Y93 CL					118
Pioneer® 45Y91 CL		115		106	109
Saintly CL	No trial	112	No trial	107	104
VICTORY® V75-03CL				98	99
Hyola® 575CL		88		92	93
Sowing date		30 Apr		25 Apr	1 May
Rainfall J–M (mm)		88		30	31
Rainfall A–O (mm)		478		268	402

For more information click this [LINK](#)

TABLE 4 Streatham mid season CL canola.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)			2.47		
Pioneer® 45Y93 CL			114		
Banker CL			113		
Saintly CL			112		
Pioneer® 44Y90 CL	Trial failed	No trial	111	No trial	No trial
Pioneer® 45Y91 CL			107		
Hyola® 575CL			95		
Sowing date	1 May		30 Apr		
Rainfall J–M (mm)	71		79		
Rainfall A–O (mm)	230		364		

For more information click this [LINK](#)

TABLE 5 Hamilton mid season RR canola.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	2.38	2.95	2.79	2.57	2.76
InVigor® R 4022P					107
Pioneer® 45Y25 RR	108	110	107	108	113
Xseed™ Raptor					107
Nuseed® GT-53	109	105	101	102	107
InVigor® R 5520P	104	104	104	104	102
Hyola® 410XX					100
Hyola® 506RR			99	99	98
Hyola® 540XC					98
VICTORY® V5003RR	89	93	96	95	97
Sowing date	1 May	5 May	28 Apr	29 Apr	9 May
Rainfall J–M (mm)	30	98	114	37	33
Rainfall A–O (mm)	318	675	422	378	422

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

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)		2.62		2.50	2.80
InVigor® R 4022P					112
Pioneer® 45Y25 RR		121		109	114
InVigor® R 5520P		110		104	105
Xseed™ Raptor					104
Nuseed GT-53	No trial	104	No trial	105	103
Hyola® 410XX					97
Hyola® 506RR		96		99	97
Hyola® 540XC					97
VICTORY® V5003RR		91		94	97
Sowing date		30 Apr		25 Apr	1 May
Rainfall J–M (mm)		88		30	31
Rainfall A–O (mm)		478		268	402

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

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)		2.69	3.23	2.56	
Pioneer® 45Y28 RR			111	113	
Pioneer® 45Y25 RR		118	107	110	
InVigor® R 5520P		110	106	106	
Nuseed® GT-53	No trial	103	103	104	
DG 460RR		101	98	99	
Hyola® 506RR		96	100	99	
VICTORY® V5003RR		90	90	91	
Sowing date		1 May	6 May	19 Apr	2 May
Rainfall J–M (mm)		66	78	59	47
Rainfall A–O (mm)		424	296	228	320

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

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)			2.47		
Pioneer® 43Y29 RR			114		
InVigor® R 5520P			109		
Pioneer® 45Y28 RR			107		
Pioneer® 45Y25 RR			105		
DG 460RR	Trial failed	No trial	100	No trial	No trial
Hyola® 506RR			98		
IH51 RR			97		
Nuseed® GT-53			96		
Nuseed® GT-42			93		
VICTORY® V5003RR			93		
Sowing date	1 May		30 Apr		
Rainfall J–M (mm)	71		79		
Rainfall A–O (mm)	230		364		

For more information click this [LINK](#)

TABLE 9 Hamilton mid season TT canola.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)		2.95	2.79	2.57	2.76
HyTTec® Trifecta	Trial failed			117	121
SF Ignite TT		116	110	112	118
HyTTec® Trophy			109	112	116
DG 670TT		114	110	111	114
InVigor® T 4510			109	112	112
ATR Wahoo [®]		102	102	102	106
Hyola® 550TT				102	101
Pioneer® 45T03 TT				103	102
Hyola® 580CT			100	100	102
Hyola® 530XT					100
Sowing date	1 May	5 May	28 Apr	29 Apr	9 May
Rainfall J–M (mm)	30	98	114	37	33
Rainfall A–O (mm)	318	675	422	378	422

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

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)		2.69	3.23	2.56	3.65
HyTTec® Trifecta	No trial			128	115
HyTTec® Trophy			119	120	111
InVigor® T 4510			119	119	109
SF Ignite TT		127	113	117	112
DG 670TT		125	114	116	110
Hyola® 550TT				106	101
Pioneer® 45T03 TT				103	102
ATR Wahoo [®]		107	97	100	104
Hyola® 530XT					100
Hyola® 580CT			98	99	102
Sowing date		1 May	6 May	19 Apr	2 May
Rainfall J–M (mm)		66	78	59	47
Rainfall A–O (mm)		424	296	228	320

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

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)		2.62		2.50	2.80
HyTTec® Trifecta	No trial		No trial	122	121
SF Ignite TT		131		114	120
DG 670TT		127		113	116
HyTTec® Trophy				116	114
InVigor® T 4510				114	112
ATR Wahoo [®]		110		101	109
Pioneer® 45T03 TT				102	104
Hyola® 550TT				104	98
Hyola® 580CT				100	101
Hyola® 530XT					100
Sowing date		30 Apr		25 Apr	1 May
Rainfall J–M (mm)		88		30	31
Rainfall A–O (mm)		478		268	402

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

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)			2.47		
InVigor® T 4510	Trial failed	No trial	113	No trial	No trial
DG 670TT			112		
SF Ignite TT			111		
HyTTec® Trophy			109		
HyTTec® Trident			103		
Monola® 416TT			102		
ATR Wahoo [®]			101		
ATR Mako [®]			97		
DG 560TT			97		
Hyola® 580CT			97		
Sowing date	1 May		30 Apr		
Rainfall J–M (mm)	71		79		
Rainfall A–O (mm)	230		364		

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

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)		2.62		2.50	2.80
Nuseed® Quartz	No trial	112	No trial	110	107
Nuseed® Diamond		96		100	94
AV-Garnet [®]		93		94	98
Sowing date		30 Apr		25 Apr	1 May
Rainfall J–M (mm)		88		30	31
Rainfall A–O (mm)		478		268	402

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

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)			2.47		
Nuseed® Quartz	Trial failed	No trial	104	No trial	No trial
AV-Garnet [®]			94		
Victory® V3002			90		
Sowing date	1 May		29 Apr		
Rainfall J–M (mm)	71		79		
Rainfall A–O (mm)	230		364		

For more information click this [LINK](#)

CANOLA VARIETY DISEASE RATINGS – SOUTH AUSTRALIA AND VICTORIA

The following two tables contain varietal ratings for the predominant diseases of canola in High Rainfall SA-VIC-TAS. As regionally specific differences in varietal reactions to some diseases can occur, varietal

responses for both South Australia and Victoria are provided.

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

TABLE 15 Canola disease guide for South Australia.

Variety	2020 autumn Blackleg rating				Type
	Bare	Jockey®	ILeVO®	Saltro®	
CONVENTIONAL VARIETIES					
AV-Garnet [Ⓓ]	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 [Ⓓ]	MS	R-MR	R	R	Open pollinated
ATR Mako [Ⓓ]	MR	R-MR	R	R	Open pollinated
ATR Stingray [Ⓓ]	MR	R	R	R	Open pollinated
ATR Wahoo [Ⓓ]	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
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					
Hyola® 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 16 Canola disease guide for Victoria.

	2020 autumn Blackleg rating				
Variety	Bare	Jockey®	ILeVO®	Saltro®	Type
CONVENTIONAL VARIETIES					
AV-Garnet ^{db}	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 ^{db}	MS	R-MR	R	R	Open pollinated
ATR Mako ^{db}	MR	R-MR	R	R	Open pollinated
ATR Stingray ^{db}	MR	R	R	R	Open pollinated
ATR Wahoo ^{db}	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					
Hyola® 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 16 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

Variety Central

varietycentral.com.au

NVT Overview Podcast (1 November 2018)

grdc.com.au/news-and-media/audio/podcast/nvt-overview

NVT Overview Video (29 October 2019)

youtu.be/ThGjxFXR_ug

NVT Southern Region (29 October 2019)

youtu.be/uagizCbCalg

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

youtu.be/GbasB-xUIQA

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

youtu.be/eS4UbszsEAg