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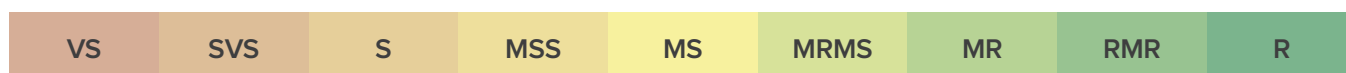
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LEGEND: MEAN VARIETY YIELD PERFORMANCE



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

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

INTRODUCTION

This *NVT Harvest Report* provides information to support growers and advisers with decisions on variety selection for the Eyre Peninsula. 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 Eyre Peninsula 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.

INTERPRETING LONG-TERM YIELD DATA

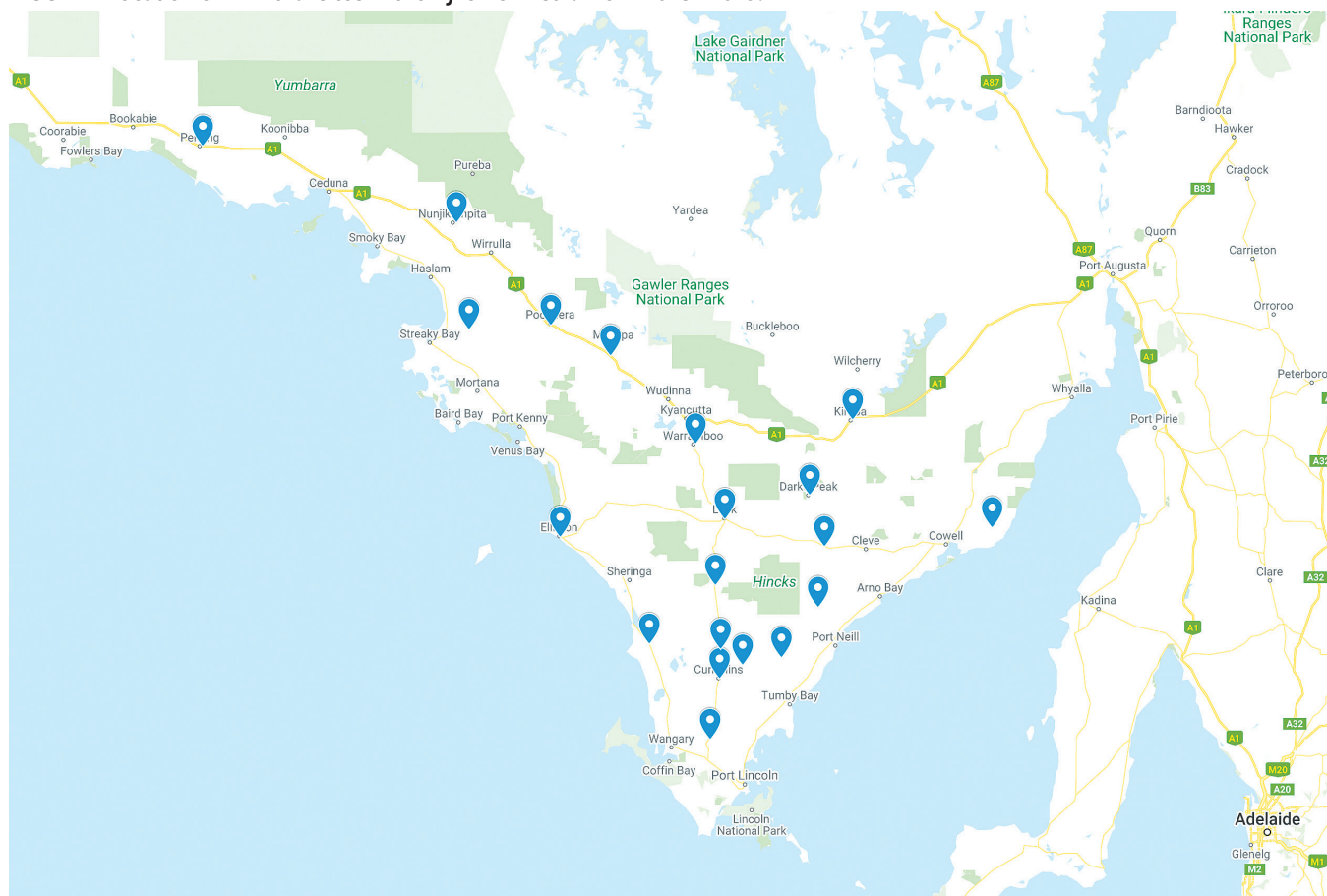
A factor analytic (FA) mixed model approach is used in the multi-environment trial (MET) analysis conducted by GRDC, supported by the Statistics for the Australian Grains Industry (SAGI) program. This approach generates long-term MET values for varieties at an individual trial level.

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 Eyre Peninsula 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 Eyre Peninsula.

NVT SITE LOCATIONS – EYRE PENINSULA 2015–2019

FIGURE 1 Location of NVT trial sites in the Eyre Peninsula 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 was 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).
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 [®] .

* 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

WHEAT

BARLEY

CANOLA

FIELD PEA

LENTIL

LUPIN

WHEAT VARIETY YIELD PERFORMANCE – EYRE PENINSULA

The following tables contain yield results from the top-performing varieties within each NVT location in the Eyre Peninsula 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 Cummins main season wheat.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	3.84	5.83	3.12	5.26	5.96
Vixen ^{db}			116	110	121
RockStar ^{db}				111	107
Scepter ^{db}	109	107	115	109	106
Beckom ^{db}	105	108	108	107	107
LRPB Cobra ^{db}	105	108	101	103	114
Catapult ^{db}				108	104
Devil ^{db}					105
LRPB Trojan ^{db}	103	109	106	107	102
LRPB Havoc ^{db}		100	107	101	111
LRPB Arrow ^{db}	105	104	107	104	106
CLEARFIELD® PLUS					
Razor CL Plus ^{db}			108	104	112
Sheriff CL Plus ^{db}		105		105	104
Chief CL Plus ^{db}		96	103	100	91
Sowing date	13 Jun	19 Jun	20 Jun	15 May	16 May
Rainfall J–M (mm)	26	83	88	24	3
Rainfall A–O (mm)	299	404	235	328	307

For more information click this [LINK](#)

TABLE 3 Minnipa main season wheat.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	2.95	3.44	1.02	1.16	1.74
Vixen ^{db}			114	105	122
RockStar ^{db}				106	116
Scepter ^{db}	114	109	111	110	105
Devil ^{db}			109		106
Catapult ^{db}				106	107
Beckom ^{db}	104	107	104	103	109
Mace ^{db}	109	102	107	106	96
LRPB Arrow ^{db}	106	103	104	104	100
Cobalt ^{db}	108	102	105	107	94
Corack ^{db}	112	99	107	106	90
CLEARFIELD® PLUS					
Razor CL Plus ^{db}		107	108	103	109
Sheriff CL Plus ^{db}		104	104	105	102
Chief CL Plus ^{db}		95	102	106	82
Sowing date	12 May	16 May	16 May	15 Jun	8 May
Rainfall J–M (mm)	14	63	85	24	5
Rainfall A–O (mm)	258	260	155	186	216

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 Kimba main season wheat.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	1.90	2.79	2.06		0.33
Vixen ^{db}			103	Trial failed	151
RockStar ^{db}					126
Scepter ^{db}	116	108	107		124
Catapult ^{db}					115
Devil ^{db}			104		126
Beckom ^{db}	104	109	106		108
LRPB Arrow ^{db}	108	102	103		98
Mace ^{db}	113	99	100		111
LRPB Trojan ^{db}	102	104	109		74
Cobalt ^{db}	105	100	105		115
CLEARFIELD® PLUS					
Razor CL Plus ^{db}		107	99		125
Sheriff CL Plus ^{db}		104	104		103
Chief CL Plus ^{db}		90	101		83
Sowing date	14 May	12 May	3 May	5 May	2 May
Rainfall J–M (mm)	49	97	110	24	8
Rainfall A–O (mm)	225	321	161	121	132

For more information click this [LINK](#)

TABLE 4 Mitchellville main season wheat.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	1.49	2.08	1.18		1.10
Vixen [‡]			118	Trial failed	138
Emu Rock [‡]	117	108	103		133
RockStar [‡]					102
Scepter [‡]	113	111	114		106
Devil [‡]			112		109
LRPB Scout [‡]	99	114	104		115
Shield [‡]	97	112	104		116
Catapult [‡]					99
Beckom [‡]	103	111	108		102
Mace [‡]	115	99	104		109
CLEARFIELD® PLUS					
Razor CL Plus [‡]		109	108		124
Sheriff CL Plus [‡]		104	106		99
Grenade CL Plus [‡]	99	100	97		111
Sowing date	6 May	26 May	2 May	21 May	8 May
Rainfall J–M (mm)	32	102	115	43	2
Rainfall A–O (mm)	216	198	112	65	99

For more information click this [LINK](#)

TABLE 5 Nunjikipita main season wheat.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	0.75	2.01	1.12	1.29	1.09
RockStar ^{db}				109	115
Scepter ^{db}	114	106	104	110	113
Catapult ^{db}				108	110
Cobalt ^{db}	123	100	110	109	106
LRPB Trojan ^{db}	113	108	108	109	100
Devil ^{db}			102		111
Cutlass ^{db}	117	104	110	107	97
Beckom ^{db}	107	107	102	105	107
Vixen ^{db}			93	103	119
LRPB Arrow ^{db}	102	103	101	104	103
CLEARFIELD® PLUS					
Sheriff CL Plus ^{db}		104	103	106	105
Chief CL Plus ^{db}		98	106	107	96
Razor CL Plus ^{db}		102	94	100	109
Sowing date	7 May	24 May	8 May	18 Jun	14 May
Rainfall J–M (mm)	0	80	101	29	11
Rainfall A–O (mm)	184	274	141	225	165

For more information click this [LINK](#)

TABLE 7 Piednippe/Poochera main season wheat.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	0.98			1.8	2.29
Vixen ^{db}		Trial failed	No trial	104	119
Scepter ^{db}	113			109	112
RockStar ^{db}				107	115
Devil ^{db}					111
Catapult ^{db}				107	110
Mace ^{db}	112			104	104
Cobalt ^{db}	107			105	105
Beckom ^{db}	101			105	107
Corack ^{db}	114			105	100
LRPB Arrow ^{db}	105				
CLEARFIELD® PLUS					
Razor CL Plus ^{db}				101	108
Sheriff CL Plus ^{db}				105	105
Chief CL Plus ^{db}				106	96
Sowing date	18 Jun	23 May		8 May	7 May
Rainfall J–M (mm)	n/a	124		27	7
Rainfall A–O (mm)	n/a	323		200	273

n/a not available

For more information click this [LINK](#)

TABLE 6 Penong main season wheat.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	1.29	1.50		1.03	0.44
RockStar [Ⓛ]			Trial failed	109	116
LRPB Trojan [Ⓛ]	113	111		105	101
Cutlass [Ⓛ]	111	112		103	104
Cobalt [Ⓛ]	112	106		109	104
Catapult [Ⓛ]				109	106
Scepter [Ⓛ]	112	99		113	100
Beckom [Ⓛ]	106	104		105	106
Devil [Ⓛ]					103
Yitpi [Ⓛ]	102	109		96	107
Cosmick [Ⓛ]	100	103		100	110
CLEARFIELD® PLUS					
Sheriff CL Plus [Ⓛ]		101		106	99
Chief CL Plus [Ⓛ]		99		107	85
Razor CL Plus [Ⓛ]		92		104	99
Sowing date	7 May	24 May	8 May	20 Jun	3 May
Rainfall J–M (mm)	15	90	101	43	4
Rainfall A–O (mm)	170	234	141	194	52

For more information click this [LINK](#)

TABLE 8 Rudall main season wheat.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	3.16		2.42	2.28	
Vixen ^{db}		Trial failed	114	120	Trial failed
Scepter ^{db}	117		116	112	
Corack ^{db}	120		103	106	
LRPB Havoc ^{db}			98	106	
RockStar ^{db}				110	
Mace ^{db}	114		107	107	
Catapult ^{db}				108	
LRPB Arrow ^{db}	110		103	104	
Beckom ^{db}	107		105	106	
Zen ^{db}	109		105	102	
CLEARFIELD® PLUS					
Razor CL Plus ^{db}			105	110	
Sheriff CL Plus ^{db}				105	
Chief CL Plus ^{db}			104	98	
Sowing date	12 May	17 May	19 Jun	6 Jun	15 May
Rainfall J–M (mm)	25	61	61	35	4
Rainfall A–O (mm)	229	312	190	176	162

For more information click this [LINK](#)

TABLE 9 Wanilla main season wheat.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	3.28	3.99	3.28	3.46	
Vixen ^{db}			113	109	Trial failed
Scepter ^{db}	114	117	115	116	
RockStar ^{db}				111	
Catapult ^{db}				111	
Corack ^{db}	113	105	109	109	
Beckom ^{db}	106	112	107	106	
Mace ^{db}	109	106	108	109	
LRPB Havoc ^{db}		106	107	105	
LRPB Arrow ^{db}	108	107	106	106	
Zen ^{db}	108	101	108	110	
CLEARFIELD® PLUS					
Razor CL Plus ^{db}			106	104	
Sheriff CL Plus ^{db}		108		108	
Chief CL Plus ^{db}		93	105	109	
Sowing date	15 May	17 May	2 Jun	17 May	17 May
Rainfall J–M (mm)	25	108	63	22	5
Rainfall A–O (mm)	328	480	298	400	346

For more information click this [LINK](#)

TABLE 10 Warramboos main season wheat.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	2.77	2.56	0.84	2.28	1.86
Vixen ^{db}			127	108	130
Scepter ^{db}	108	113	121	109	110
RockStar ^{db}				105	119
Devil ^{db}			118		111
Catapult ^{db}				105	109
Emu Rock ^{db}	104	108	112	99	117
Mace ^{db}	104	108	115	106	101
Beckom ^{db}	106	105	104	103	109
Corack ^{db}	106	108	114	107	94
LRPB Havoc ^{db}		108	111	106	93
CLEARFIELD® PLUS					
Razor CL Plus ^{db}		111	115	104	114
Sheriff CL Plus ^{db}		105	106	104	102
Grenade CL Plus ^{db}	97	98	101	96	104
Sowing date	13 May	11 May	19 Jun	30 May	7 May
Rainfall J–M (mm)	38	57	82	33	4
Rainfall A–O (mm)	252	286	178	205	257

For more information click this [LINK](#)

WHEAT VARIETY QUALITY – SOUTH AUSTRALIA

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 box and whisker plots from 2018 and 2019 NVT averaged for all trials in South Australia. Only the varieties evaluated at every site are included. Each figure shows the median value (circle) and variability (lines) of each wheat variety. The range of the lines represents the middle 50 per cent of grain screenings and test weights 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 wheat varieties from 22 NVT sites in SA 2019.

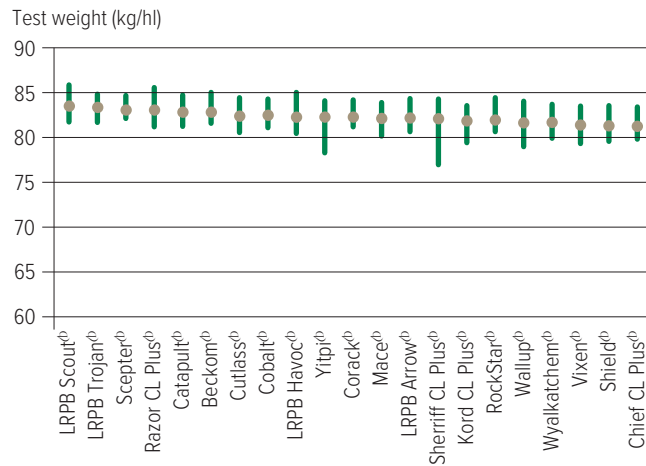


FIGURE 2 Test weight (kg/hl) comparisons for main season wheat varieties from 19 NVT sites in SA 2018.

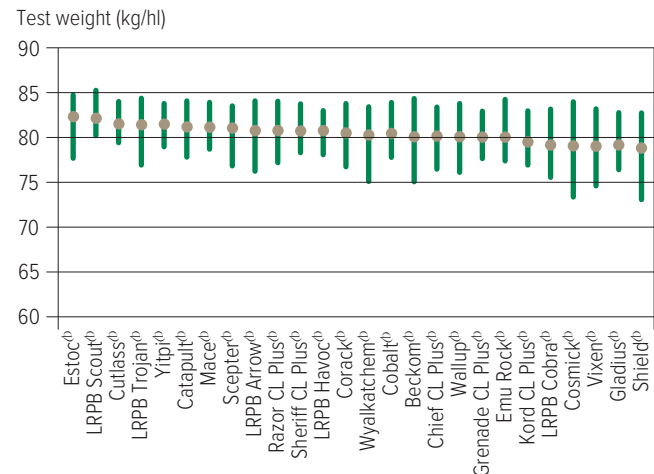


FIGURE 3 Screenings (<2.0mm) comparisons for main season wheat varieties from 22 NVT sites in SA 2019.

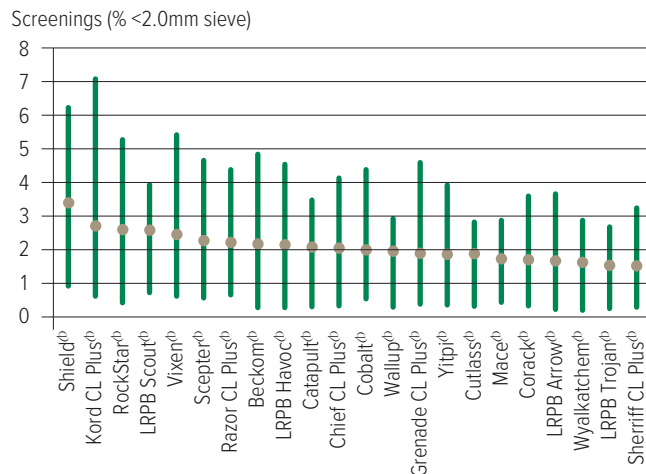
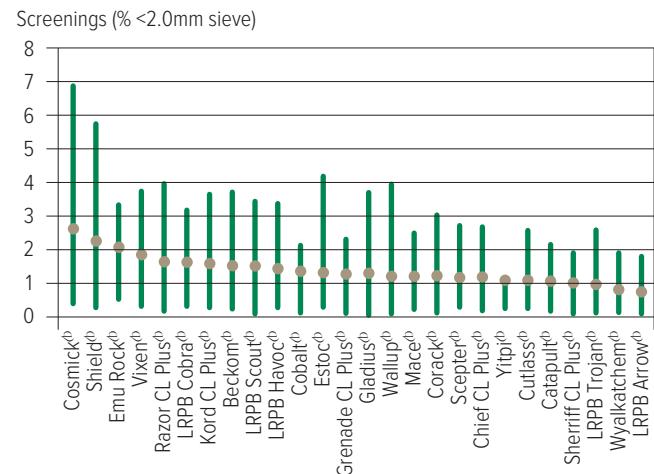


FIGURE 4 Screenings (<2.0mm) comparisons for main season wheat varieties from 19 NVT sites in SA 2018.



WHEAT VARIETY DISEASE RATINGS – SOUTH AUSTRALIA

The following table contains varietal ratings for the predominant diseases of wheat in South Australia.

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

TABLE 11 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 Vittaroi ^{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, T = tolerant, MT = moderately tolerant, MI = moderately intolerant, I = intolerant, VI = very intolerant, _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 was 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

WHEAT

BARLEY

CANOLA

FIELD PEA

LENTIL

LUPIN

BARLEY VARIETY YIELD PERFORMANCE – EYRE PENINSULA

The following tables contain yield results from the top-performing varieties within each NVT location in the Eyre Peninsula 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 Cummins main season barley.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	4.29	6.49	4.73	6.64	
Rosalind ^{db}	116	110	114	110	Trial failed
RGT Planet ^{db}		120	110	113	
Leabrook ^{db}	114	97	113	104	
Buff ^{db}				105	
La Trobe ^{db}	111	99	103	103	
Banks ^{db}	104	102	105	103	
Hindmarsh ^{db}	113	97	105	102	
Fathom ^{db}	105	101	102	103	
Compass ^{db}	113	92	108	101	
Granger ^{db}	101	101	102	100	
CLEARFIELD®					
Maximus CL ^{db}				102	
Spartacus CL ^{db}	115	97	104	102	
Scope CL ^{db}	95	95	92	95	
Sowing date	13 May	19 May	20 Jun	15 May	16 May
Rainfall J–M (mm)	26	83	88	24	3
Rainfall A–O (mm)	299	404	235	328	307

For more information click this [LINK](#)

TABLE 3 Elliston main season barley.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	1.19	5.01	3.61	2.25	3.68
Rosalind ^{db}	144	102	110	109	113
Leabrook ^{db}	110	97	113	116	115
RGT Planet ^{db}		114	104	96	106
Fathom ^{db}	115	101	108	115	111
Buff ^{db}				104	107
La Trobe ^{db}	130	94	108	109	106
Compass ^{db}	107	89	114	114	111
Hindmarsh ^{db}	129	92	109	110	107
Fleet Australia ^{db}	112	97	106	114	106
Banks ^{db}	106	101	106	105	106
CLEARFIELD®					
Spartacus CL ^{db}	128	93	106	111	107
Maximus CL ^{db}				108	107
Scope CL ^{db}	91	93	100	96	94
Sowing date	25 May	12 May	20 Jun	9 May	14 May
Rainfall J–M (mm)	10	91	103	29	3
Rainfall A–O (mm)	265	421	273	250	282

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 Darke Peak main season barley.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	3.68	4.53		2.48	1.52
Rosalind ^{db}	114	108	Trial failed	122	122
Leabrook ^{db}	105	108		125	137
Compass ^{db}	104	102		127	140
Fathom ^{db}	105	112		117	124
Hindmarsh ^{db}	106	101		125	126
La Trobe ^{db}	106	101		122	120
Buff ^{db}				121	110
Banks ^{db}	105	105		107	114
Fleet Australia ^{db}	96	108		118	108
Keel	101	101		117	118
CLEARFIELD®					
Spartacus CL ^{db}	106	100		125	128
Maximus CL ^{db}				125	129
Scope CL ^{db}	98	94		96	99
Sowing date	12 May	11 May	19 Jun	26 Jun	16 May
Rainfall J–M (mm)	33	86	71	38	6
Rainfall A–O (mm)	281	315	184	190	190

For more information click this [LINK](#)

TABLE 4 Minnipa main season barley.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	4.06	3.73	0.72	1.39	2.00
Leabrook ^{db}	119	119	122	120	128
Compass ^{db}	116	115	141	128	128
Fathom ^{db}	112	124	120	125	124
Rosalind ^{db}	116	120	119	114	130
Keel	110	117	152	127	117
Hindmarsh ^{db}	112	113	145	126	123
La Trobe ^{db}	109	112	141	125	119
Banks ^{db}	107	111	102	107	115
Fleet Australia ^{db}	101	110	123	126	102
Buff ^{db}				122	106
CLEARFIELD®					
Spartacus CL ^{db}	116	115	149	124	125
Maximus CL ^{db}				124	126
Scope CL ^{db}	94	95	114	107	97
Sowing date	12 May	16 May	16 Jun	15 Jun	8 May
Rainfall J–M (mm)	14	63	85	24	5
Rainfall A–O (mm)	258	260	155	186	216

For more information click this [LINK](#)

TABLE 5 Piednippe/Poochera main season barley.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	1.03	2.63		2.60	2.98
Fathom [Ⓓ]	143	107	No trial	112	115
Fleet Australia [Ⓓ]	126	108		112	112
Leabrook [Ⓓ]	140	100		110	112
Compass [Ⓓ]	147	97		109	112
Keel	145	97		103	113
La Trobe [Ⓓ]	150	93		106	112
Rosalind [Ⓓ]	155	91		106	112
Hindmarsh [Ⓓ]	153	91		106	112
Buff [Ⓓ]				111	106
Banks [Ⓓ]	119	102		105	105
CLEARFIELD®					
Spartacus CL [Ⓓ]	153	90		103	112
Maximus CL [Ⓓ]				103	111
Scope CL [Ⓓ]	101	100		100	99
Sowing date	18 Jun	23 May		8 May	7 May
Rainfall J–M (mm)	n/a	124		27	7
Rainfall A–O (mm)	n/a	323		200	273

n/a not available

For more information click this [LINK](#)

TABLE 7 Wharminda main season barley.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	4.28	3.94	1.26		1.17
Compass [Ⓓ]	107	110	143	Trial failed	148
Leabrook [Ⓓ]	107	117	132		133
Fathom [Ⓓ]	106	112	123		136
Rosalind [Ⓓ]	113	106	114		125
Hindmarsh [Ⓓ]	106	100	130		135
La Trobe [Ⓓ]	106	98	127		131
Banks [Ⓓ]	105	107	111		119
Buff [Ⓓ]					122
Keel	101	100	112		130
Fleet Australia [Ⓓ]	97	104	129		112
CLEARFIELD®					
Maximus CL [Ⓓ]					138
Spartacus CL [Ⓓ]	106	102	123		134
Scope [Ⓓ]	98	92	108		115
Sowing date	11 May	10 May	10 Jul	11 May	16 May
Rainfall J–M (mm)	22	93	60	30	5
Rainfall A–O (mm)	284	339	205	192	180

For more information click this [LINK](#)

TABLE 6 Wanilla main season barley.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	3.49	4.44	3.87	5.29	
Rosalind [Ⓛ]	124	105	108	111	Trial failed
Leabrook [Ⓛ]	119	113	106	107	
RGT Planet [Ⓛ]		109	118	107	
Compass [Ⓛ]	119	105	103	105	
Banks [Ⓛ]	107	107	107	104	
Fathom [Ⓛ]	108	110	105	101	
Buff [Ⓛ]				102	
Hindmarsh [Ⓛ]	119	96	99	104	
La Trobe [Ⓛ]	115	95	100	102	
Bass [Ⓛ]	97	103	99	100	
CLEARFIELD®					
Maximus CL [Ⓛ]				106	
Spartacus CL [Ⓛ]	121	96	96	105	
Scope CL [Ⓛ]	96	91	98	96	
Sowing date	15 May	17 May	2 Jun	17 May	16 May
Rainfall J–M (mm)	13	108	63	22	5
Rainfall A–O (mm)	295	480	298	400	346

For more information click this [LINK](#)

BARLEY VARIETY QUALITY – SOUTH AUSTRALIA

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, low grain screenings or high 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 South Australia. 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 and test weights 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 15 NVT sites in SA 2019.

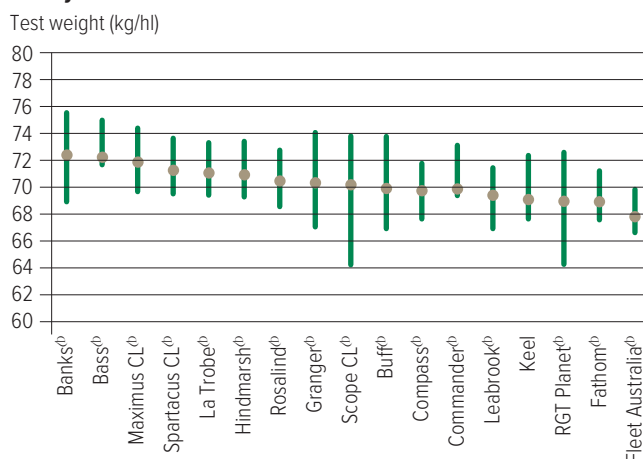


FIGURE 2 Test weight (kg/hl) comparisons for main season barley varieties from 16 NVT sites in SA 2018.

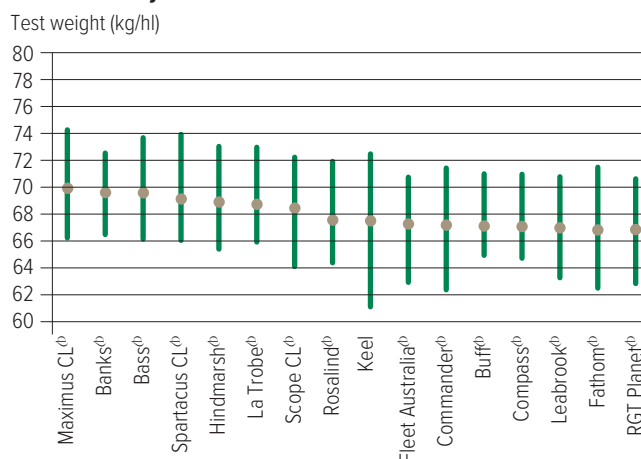


FIGURE 3 Screenings (<2.2mm) comparisons for main season barley varieties from 15 NVT sites in SA 2019.

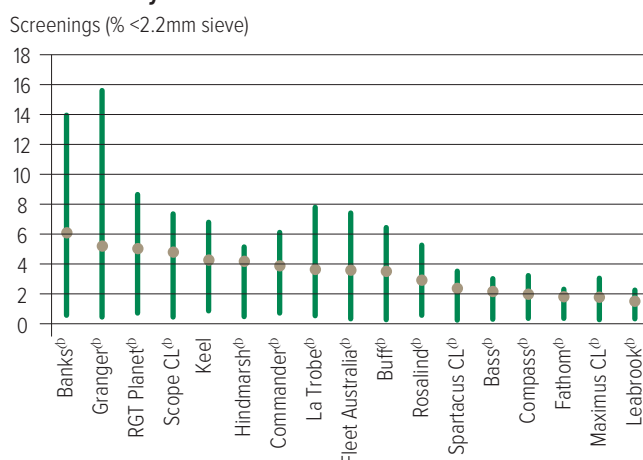


FIGURE 4 Screenings (<2.2mm) comparisons for main season barley varieties from 16 NVT sites in SA 2018.

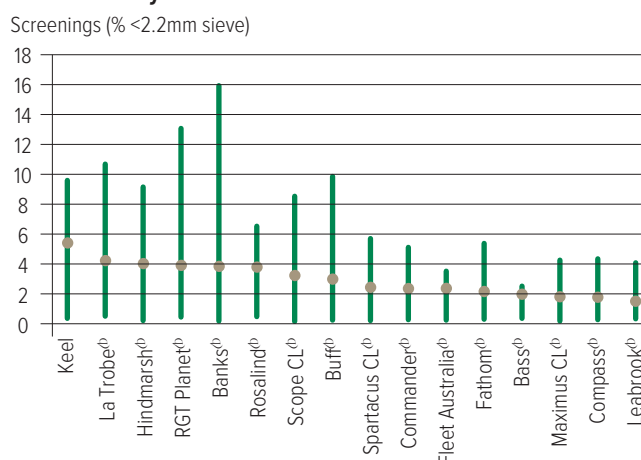


FIGURE 5 Retention (>2.5mm) comparisons for main season barley varieties from 15 NVT sites in SA 2019.

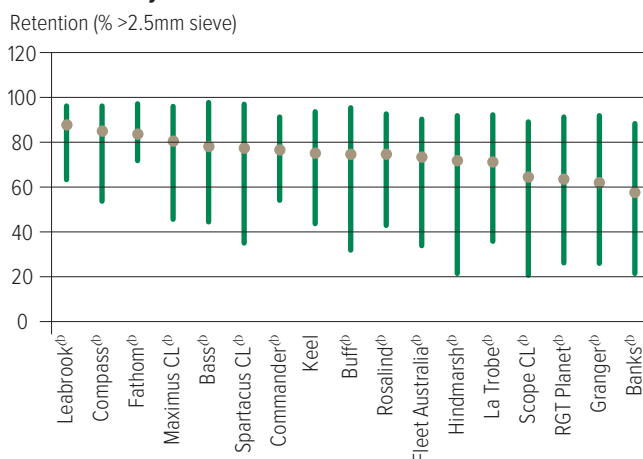
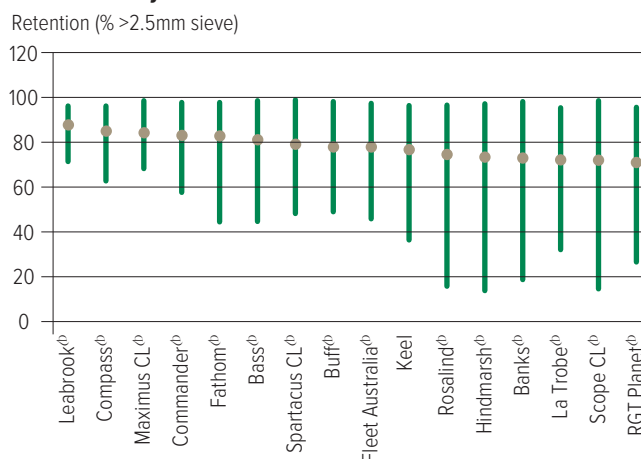


FIGURE 6 Retention (>2.5mm) comparisons for main season barley varieties from 16 NVT sites in SA 2018.



BARLEY VARIETY DISEASE RATINGS – SOUTH AUSTRALIA

The following table contains varietal ratings for the predominant diseases of barley in South Australia.

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

TABLE 8 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 ^{db}	R [^]	R-MS	MR-S	MSS	MS-SVS	RMR	MRMS
Banks ^{db}	S	MR-S	R-MRMS	MRMS-S	R-SVS	MR-MS	MS
Buloke ^{db}	S		MR		MRMS-S	RMR	MS
Commander ^{db}	R	MS-S	MS-VS	MSS	MR-SVS	MRMS	MSS
Compass ^{db}	R	SVS	MR-MSS	MRMS-MSS	MR-SVS	MRMS-S	MSS
Fathom ^{db}	R	MRMS-S	MS-VS	RMR	R-S	MRMS	MSS
Flinders ^{db}	S	MRMS-S	MRMS	MRMS-S	MR-SVS	RMR	MRMS
Granger ^{db}	R	MR-MS	R-MSS	MS-S	MRMS-SVS	R	MS
Hindmarsh ^{db}	R	MRMS-S	MR-MS	S	R-SVS	MR-SVS	MSS
Keel	R	VS	S	MR	R-SVS	SVS	MSS
Leabrook ^{db}	MRMS	MS-SVS	MR-MS	MR-MS	R-SVS	MR-MS	MSS
Maritime ^{db}	R		R-VS		MR-SVS	S	MSS
Maximus CL ^{db}	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 ^{td}	R ^p	MR-MS	MR-SVS	S-SVS	R-SVS	R	MRMS
Rosalind ^{db}	R	MR-MS	MR	MS-S	MR-S	MRMS-S	MSS
Schooner	VS	S-VS	MR	MS	MS-S	SVS	MS
Scope CL ^{db}	S	MS-SVS	MR	MS-S	MRMS-SVS	RMR	MS
Spartacus CL ^{db}	R	MR-S	MSS-SVS	S	R-SVS	MR-SVS	MSS
Westminster ^{db}		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.

CANOLA

NEW CANOLA VARIETIES

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

Variety	Breeding company	End Point Royalty* (\$)	Comments supplied by breeding company
HyITec® Trifecta	Nuseed Pty Ltd	10.00	Not supplied
VICTORY® V75-03CL	Cargill	n/a	Mid-maturing specialty hybrid.

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

WHEAT

BARLEY

CANOLA

FIELD PEA

LENTIL

LUPIN

CANOLA VARIETY YIELD PERFORMANCE – EYRE PENINSULA

The following tables contain yield results from the top-performing varieties within each NVT location in the Eyre Peninsula 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 Yeelanna mid season CL canola.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	2.04	2.64			2.57
Pioneer® 45Y93 CL			Trial failed	Trial failed	112
Pioneer® 44Y90 CL	108	115			110
Saintly CL	104	109			108
VICTORY® V75-03CL					97
VICTORY® V7002CL					96
Hyola® 575CL	93	88			92
Sowing date	27 Apr	4 May	27 Jun	8 May	7 May
Rainfall J–M (mm)	23	71	59	28	6
Rainfall A–O (mm)	295	449	227	346	346

For more information click this [LINK](#)

TABLE 3 Minnipa early season CL canola.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	1.62	1.01		0.95	1.11
Pioneer® 43Y92 CL		97	Trial failed	104	109
Pioneer® 44Y90 CL	106	102		105	107
Saintly CL	107				108
VICTORY® V7002CL				105	100
Hyola® 575CL	104	86		91	96
Sowing date	28 Apr	10 May	31 May	29 May	2 May
Rainfall J–M (mm)	14	63	85	24	5
Rainfall A–O (mm)	258	260	155	186	216

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 Lock early season CL canola.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	1.49	1.68		1.37	
Pioneer® 44Y90 CL	106	105	No trial	105	Trial failed
Pioneer® 43Y92 CL		102		103	
VICTORY® V7002CL				102	
Hyola® 575CL	99	92		90	
Sowing date	29 Apr	12 May		30 May	7 May
Rainfall J–M (mm)	14	42		31	3
Rainfall A–O (mm)	204	288		241	198

For more information click this [LINK](#)

TABLE 4 Yeelanna mid season TT canola.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	2.04	2.64			2.57
HyITec® Trifecta			Trial failed	Trial failed	121
HyITec® Trophy					115
InVigor® T 4510					114
SF Ignite TT					112
DG 670TT					111
Hyola® 550TT					106
Hyola® 559TT	104	104			102
SF Spark TT					102
Pioneer® 45T03 TT					102
Hyola® 580CT					100
Sowing date	27 Apr	4 May	27 Jun	8 May	6 May
Rainfall J–M (mm)	23	71	59	28	6
Rainfall A–O (mm)	295	449	227	346	346

For more information click this [LINK](#)

TABLE 5 Lock early season TT canola.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	1.49	1.68		1.37	
HyITec® Trident			No trial	121	Trial failed
Hyola® 350TT				114	
InVigor® T 4510		110		110	
HyITec® Trophy				109	
Pioneer® 44T02 TT	107	104		110	
Hyola® 559TT	106	106		108	
InVigor® T 3510				107	
DG 560TT				100	
ATR Bonito ^{db}	99	96		91	
ATR Stingray ^{db}	92	97		89	
Sowing date	29 Apr	12 May		30 May	7 May
Rainfall J–M (mm)	14	42		31	3
Rainfall A–O (mm)	204	288		241	198

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

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	2.04	2.64			2.57
Nuseed® Quartz		115	Trial failed	Trial failed	110
Nuseed® Diamond	98	99			102
AV-Garnet ^{db}	94	90			93
Sowing date	27 Apr	4 May	27 Jun	8 May	7 May
Rainfall J–M (mm)	23	71	59	28	6
Rainfall A–O (mm)	295	449	227	346	346

For more information click this [LINK](#)**TABLE 6 Minnipa early season TT canola.**

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	1.62	1.01		0.95	1.11
Hyola® 550TT			Trial failed		110
Hyola® 350TT				115	106
InVigor® T 4510		109		109	110
HyITec® Trophy				109	109
Pioneer® 44T02 TT	102	108		111	105
InVigor® T 3510				106	107
SF Spark TT					102
ATR Bonito ^{db}	105	89		92	99
ATR Stingray ^{db}	97	92		88	94
Sowing date	28 Apr	10 May	31 May	29 May	2 May
Rainfall J–M (mm)	14	63	85	24	5
Rainfall A–O (mm)	258	260	155	186	216

For more information click this [LINK](#)**TABLE 8 Lock early season conventional canola.**

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	1.49	1.68		1.37	
Nuseed® Diamond	112	106	Trial failed	118	Trial failed
Nuseed® Quartz		106		110	
VICTORY® V3002	98	88		89	
AV-Garnet ^{db}	82	97		86	
Sowing date	29 Apr	12 May		30 May	7 May
Rainfall J–M (mm)	14	42		31	3
Rainfall A–O (mm)	204	288		241	198

For more information click this [LINK](#)

CANOLA VARIETY DISEASE RATINGS – SOUTH AUSTRALIA

The following table contains varietal ratings for the predominant diseases of canola in South Australia. These ratings are updated annually by

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

TABLE 9 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.

FIELD PEA

FIELD PEA VARIETY YIELD PERFORMANCE – EYRE PENINSULA

The following tables contain yield results from the top-performing varieties within each NVT location in the Eyre Peninsula 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 Rudall field pea.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	1.30		1.47	1.51	0.87
PBA Pearl ^{db}	117	No trial	115	102	127
PBA Butler ^{db}	111		109	103	107
PBA Oura ^{db}	98		98	98	108
PBA Percy ^{db}	100		90	101	113
PBA Gunyah ^{db}	92		96	97	85
PBA Wharton ^{db}	89		94	96	89
Kaspa ^{db}	86		94	95	74
Sowing date	18 May		6 Jul	30 May	17 May
Rainfall J–M (mm)	25		56	0	3
Rainfall A–O (mm)	229		165	192	213

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).

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

TABLE 2 Yeelanna field pea.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	1.56	2.70	1.89	3.03	3.44
PBA Percy ^{db}	98	118	101	95	108
PBA Pearl ^{db}	113	95	100	109	102
PBA Oura ^{db}	105	100	102	98	102
PBA Wharton ^{db}	105	97	107	96	101
PBA Butler ^{db}	98	97	96	106	99
PBA Gunyah ^{db}	94	91	105	98	100
Kaspa ^{db}	86	83	104	95	98
Sowing date	20 May	31 May	6 Jul	14 May	27 May
Rainfall J–M (mm)	36	71	59	28	6
Rainfall A–O (mm)	284	449	227	346	346

For more information click this [LINK](#)

FIELD PEA VARIETY DISEASE RATINGS – SOUTH AUSTRALIA

The following table contains varietal ratings for the predominant diseases of field pea in South Australia. These ratings are updated annually by

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

TABLE 3 Field pea disease guide for South Australia.

Variety	Downy mildew	Blackspot (<i>Ascochyta blight</i>)	Powdery mildew	Bacterial blight
Kaspa [Ⓢ]	S	MS	S	S
PBA Butler [Ⓢ]	S	MS	S	MS
PBA Gunyah [Ⓢ]	S	MS	S	S
PBA Oura [Ⓢ]	S	MS	S	MS
PBA Pearl [Ⓢ]	S	MS	S	MS
PBA Percy [Ⓢ]	S	MS	S	MRMS
PBA Twilight [Ⓢ]	S	MS	S	S
PBA Wharton [Ⓢ]	S	MS	R	S

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

LENTIL

NEW LENTIL VARIETIES

The following information is for lentil varieties released during 2019 and since the 2020 South Australian Crop Sowing Guide was published.

Variety	Breeding company	End Point Royalty* (\$)	Comments supplied by breeding company
PBA HighlandXT [Ⓛ]	National Lentil Initiative	5.40	Not supplied

* 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

WHEAT

BARLEY

CANOLA

FIELD PEA

LENTIL

LUPIN

LENTIL VARIETY YIELD PERFORMANCE – EYRE PENINSULA

The following table contains yield results from the top-performing varieties within each NVT location in the Eyre Peninsula 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 Yeelanna lentil.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	1.09	2.29	2.14	3.23	
PBA Jumbo2 [Ⓛ]	100	104	101	109	Trial failed
PBA Flash [Ⓛ]	107	104	102	100	
PBA Hurricane XT [Ⓛ]	93	99	104	97	
Nipper [Ⓛ]	91	101	95	101	
Nugget	92	97	103	96	
PBA Hallmark XT [Ⓛ]	87	94	102	99	
PBA Bolt [Ⓛ]	100	94	100	94	
PBA HighlandXT [Ⓛ]		89	93	99	
PBA Blitz [Ⓛ]	99	79	75	102	
Sowing date	20 May	31 May	6 Jul	14 May	27 May
Rainfall J–M (mm)	36	71	59	28	6
Rainfall A–O (mm)	302	449	227	346	346

For more information click this [LINK](#)

The performance of varieties not listed within this table can be found by further interrogation of the NVT website via the link below the table.

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

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

LENTIL VARIETY DISEASE RATINGS – SOUTH AUSTRALIA

The following table contains varietal ratings for the predominant diseases of lentil in South Australia. These ratings are updated annually by crop

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

TABLE 2 Lentil disease guide for South Australia.

Variety	Ascochyta blight (Pathotype 1 Nipper virulent)	Ascochyta blight (Pathotype 2 Hurricane virulent)	Botrytis grey mould	RLN resistance (<i>Pratylenchus neglectus</i>)	RLN resistance (<i>Pratylenchus thornei</i>)
Nipper [Ⓛ]	MRMS	MR	RMR	RMR	MR
PBA Ace [Ⓛ]	R	R	MRMS	MR	MRMS
PBA Blitz [Ⓛ]	MRMS	MR	MR	MR	MRMS
PBA Bolt [Ⓛ]	MR	MRMS	S	MR	MR
PBA Hallmark XT [Ⓛ]	RMR	MRMS	RMR	MR _p	MRMS _p
PBA HighlandXT [Ⓛ]	MR	MR	MRMS	MR _p	MRMS _p
PBA Hurricane XT [Ⓛ]	RMR	MRMS	MRMS	MRMS	MRMS
PBA Jumbo2 [Ⓛ]	R	R	RMR	MR	MRMS

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

LUPIN

NEW LUPIN VARIETIES

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

Variety	Breeding company	End Point Royalty* (\$)	Comments supplied by breeding company
Coyote [Ⓛ]	National Lupin Initiative	3.00	A very widely adapted variety with a maturity similar to Jurien [Ⓛ] offering high and stable yields in all lupin growing areas, particularly WA.

* 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

WHEAT

BARLEY

CANOLA

FIELD PEA

LENTIL

LUPIN

LUPIN VARIETY YIELD PERFORMANCE – EYRE PENINSULA

The following table contains yield results from the top-performing varieties within each NVT location in the Eyre Peninsula 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 Ungarra narrow-leaf lupin.

Year	2015	2016	2017	2018	2019
Mean yield (t/ha)	1.53	2.32	1.11	2.90	1.26
Coyote ^{db}	125	121	106	112	
PBA Bateman ^{db}	125	119		112	99
PBA Gunyidi ^{db}	111	111	98		90
PBA Jurien ^{db}	96	111	91		70
Jenabillup ^{db}	105	110	96	100	81
Mandelup ^{db}	98	108	99		85
PBA Barlock ^{db}	89	108	93		69
Wonga	80	100	95	85	72
Sowing date	8 May	6 May	10 Jul	11 May	13 May
Rainfall J–M (mm)	20	105	65	26	4
Rainfall A–O (mm)	268	399	243	269	260

For more information click this [LINK](#)

LUPIN VARIETY DISEASE RATINGS – SOUTH AUSTRALIA

The following table contains varietal ratings for the predominant diseases of lupin in South Australia. These ratings are updated annually by crop

The performance of varieties not listed within this table can be found by further interrogation of the NVT website via the link below the table.

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

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

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

TABLE 2 Lupin disease guide for South Australia.

Variety	Anthraxnose resistance	Brown leaf spot	Phomopsis stem infection	Phomopsis pod infection
Coyote ^{db}	MRMS _p	MS _p	MR _p	MRMS _p
Jenabillup ^{db}	MS	MRMS	MS	MR
Mandelup ^{db}	MR	MS	RMR	MRMS
PBA Barlock ^{db}	RMR	MS	MR	MR
PBA Bateman ^{db}	MRMS	MS	RMR	MS
PBA Gunyidi ^{db}	MR	MS	RMR	MRMS
PBA Jurien ^{db}	RMR	MS	RMR	MR

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

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