



2019 QUARANTINE REPORT

South Australia

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Important Information for Quarantined (Harvested but not released) Trials

To ensure the results of NVT remain robust, relevant and of the highest quality, it is agreed policy to exclude quarantined trial data from the published reports. Frost, wind and hail damage and drought events are random, uncontrollable, unpredictable and extremely variable in both timing and severity of the damage caused. Variety tolerances to frost and many other random climatic events cannot be measured or gauged in field based NVT.

****WARNING****

Data presented within this report provides growers with a transparent account of NVT trials that were severely compromised by various factors rendering them unsuitable for general publication. These trials were harvested but the data was not released as it was deemed of no value for the purposes of head to head variety comparison and should not be used for any variety selection decisions.

Replication of this data is strictly prohibited, and it MUST NOT be used by ANY parties for producing variety brochures and marketing material, sowing guides, grower notes or ANY OTHER publication or communication activities.

Cover: NVT Canola.

Photo: Ben O'Connor NVT Systems Officer

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Table 1: 2019 South Australia Unreleased Trials.

STATE	Site Description	Name	Trial Code	Sowing Date	Harvest Date	Site Mean Yield	CV Value
SA	Cummins	Barley	BMAA19CUMM5	16-May-19	26-Nov-19	2.64	20.48
SA	Cooke Plains	Barley	BMAA19COOK5	17-May-19	25-Nov-19	4.21	4.83
SA	Maitland	Barley	BMAA19MAIT5	21-May-19	27-Nov-19	5.17	5.03
SA	Minlaton	Chickpea	DMDB19MINL5	08-May-19	26-Nov-19	0.72	22.00
SA	Lameroo	Faba Bean	FMAA19LAME5	11-May-19	17-Nov-19	0.94	15.23
SA	Lameroo	Field Pea	PMaA19LAME5	21-May-19	17-Nov-19	0.21	49.54
SA	Mundulla	Field Pea	PMaB19MUND5	31-May-19	11-Dec-19	2.07	16.48
SA	Lameroo	Lentil	QMaA19LAME5	21-May-19	17-Nov-19	0.36	30.77
SA	Yeelanna	Lentil	QMaA19YEEL5	27-May-19	26-Nov-19	1.74	14.22
SA	Pinnaroo	Wheat	WEaA19PINN5	11-Apr-19	18-Nov-19	1.42	11.78
SA	Rudall	Wheat	WMaA19RUDA5	15-May-19	05-Dec-19	1.81	8.11
SA	Keith	Wheat	WMaA19KEIT5	16-May-19	07-Dec-19	4.16	6.87
SA	Wanbi	Wheat	WMaA19WANB5	22-May-19	18-Nov-19	0.41	22.80
SA	Geranium	Wheat	WMaA19GERA5	22-May-19	22-Nov-19	3.45	7.77

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2019 Quarantine Report South Australia Wheat.

Main Wheat Trial Yield data.

Region Nearest Town Crop Type Trial ID Variety Name	Lower EP Rudall Wheat WMAA19RUDA5 tonnes/ha %		Murray Mallee Geranium Wheat WMAA19GERA5 tonnes/ha %		Murray Mallee Wanbi Wheat WMAA19WANB5 tonnes/ha %		South East Keith Wheat WMAA19KEIT5 tonnes/ha %	
Beckom	2.10	116	3.69	107	0.38	91	4.53	109
Catapult	1.97	109	4.09	119	0.47	115	4.45	107
Chief CL Plus	1.01	56	3.50	102	0.28	68	4.48	108
Cobalt	2.23	123	3.66	106	0.50	123	4.85	117
Coolah	-	-	-	-	-	-	3.92	94
Corack	1.53	85	3.10	90	0.33	79	3.66	88
Cosmick	2.74	152	3.57	104	0.43	106	-	-
Cutlass	2.14	118	3.49	101	0.54	132	4.41	106
Devil	2.02	112	-	-	-	-	-	-
DS Darwin	1.87	103	3.01	87	0.42	103	4.11	99
DS Pascal	1.73	95	-	-	-	-	3.79	91
EG Jet	-	-	-	-	-	-	3.68	88
Emu Rock	1.89	104	2.38	69	0.39	94	2.53	61
Grenade CL Plus	1.74	96	3.12	90	0.44	108	4.00	96
Kord CL Plus	1.58	87	3.20	93	0.51	125	4.02	97
LRPB Arrow	1.43	79	3.46	100	0.31	75	4.58	110
LRPB Beaufort	-	-	-	-	-	-	4.59	110
LRPB Cobra	1.11	61	-	-	-	-	3.53	85
LRPB Havoc	1.41	78	2.94	85	0.15	36	3.32	80
LRPB Scout	2.02	112	3.13	91	0.55	134	4.52	109
LRPB Trojan	1.97	109	3.51	102	0.52	127	4.15	100
Mace	1.54	85	3.74	108	0.27	66	4.63	111
Razor CL Plus	0.97	54	3.10	90	0.24	58	4.12	99
RGT Zanzibar	-	-	-	-	-	-	4.08	98
RockStar	2.18	120	4.06	118	0.41	99	5.15	124
Scepter	1.74	96	4.05	117	0.34	83	4.87	117
Sheriff CL Plus	1.66	92	3.79	110	0.34	84	4.63	111
Shield	1.70	94	3.14	91	0.49	120	4.23	102

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Region	Lower EP		Murray Mallee		Murray Mallee		South East	
Nearest Town	Rudall		Geranium		Wanbi		Keith	
Crop Type	Wheat		Wheat		Wheat		Wheat	
Trial ID	WMaA19RUDA5		WMaA19GERA5		WMaA19WANB5		WMaA19KEIT5	
Variety Name	tonnes/ha	%	tonnes/ha	%	tonnes/ha	%	tonnes/ha	%
Sunprime	-	-	3.42	99	0.34	82	3.54	85
Tungsten	-	-	-	-	-	-	3.80	91
Vixen	1.73	96	3.51	102	0.21	51	4.28	103
Wallup	1.65	91	3.06	89	0.37	91	3.83	92
Wyalkatchem	1.67	92	3.55	103	0.32	79	4.18	101
Yitpi	1.63	90	3.44	100	0.42	103	3.84	92
Zen	1.61	89	-	-	-	-	-	-
Site Mean (t/ha)	1.81		3.45		0.41		4.16	
CV (%)	8.11		7.77		22.80		6.87	
Probability	<0.001		<0.001		<0.001		<0.001	
LSD (t/ha)	0.26		0.45		0.16		0.49	
Analysis Date	06/01/2020		12/12/2019		03/12/2019		09/12/2019	
Sowing Date	15/05/2019		22/05/2019		22/05/2019		16/05/2019	
Trial Comments	WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST. Frost will affect varieties differently and trial results will be unreliable and not a true reflection of variety performance or ranking. These trial results should not be used to make variety selection decisions.		Trial not to be released as it was highly affected by early season sandblasting. These trial results should not be used to make variety selection decisions.		This trial has a CV greater than 15% indicating high variability across the trial with unacceptable within plot and trial variability. These trial results should not be used to make variety selection decisions.		WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST. Frost will affect varieties differently and trial results will be unreliable and not a true reflection of variety performance or ranking. These trial results should not be used to make variety selection decisions.	

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Early Wheat Trial Yield Data.

Region	Murray Mallee	
Nearest Town	Pinnaroo	
Crop Type	Wheat	
Trial ID	WEaA19PINN5	
Variety Name	tonnes/ha	%
Catapult	1.40	99
Coolah	1.25	89
DS Bennett	1.76	124
DS Pascal	1.46	103
EGA Wedgetail	1.62	114
Forrest	1.84	130
Illabo	1.70	120
Longsword	1.47	104
LRPB Nighthawk	1.91	134
LRPB Trojan	1.43	101
RockStar	1.06	75
Sheriff CL Plus	0.99	70
Site Mean (t/ha)	1.42	
CV (%)	11.78	
Probability	<0.001	
LSD (t/ha)	0.27	
Analysis Date	03/12/2019	
Sowing Date	11/04/2019	
Trial Comments	WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST. Frost will affect varieties differently and trial results will be unreliable and not a true reflection of variety performance or ranking. These trial results should not be used to make variety selection decisions.	

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2019 Quarantine Report South Australia Barley.

Barley Trial Yield data.

Region Nearest Town Crop Type Trial ID Variety Name	Lower EP Cummins Barley BMA19CUMM5 tonnes/ha %	Murray Mallee Cooke Plains Barley BMA19COOK5 tonnes/ha %	Yorke P Maitland Barley BMA19MAIT5 tonnes/ha %
Alestar	0.88 33	- -	6.04 117
Banks	1.42 54	4.28 102	5.86 113
Bass	4.35 165	4.31 102	6.06 117
Bottler	- -	- -	6.00 116
Buff	4.32 164	4.59 109	5.44 105
Commander	2.75 104	4.75 113	3.88 75
Compass	3.74 142	3.66 87	3.94 76
Fathom	2.74 104	4.73 112	4.28 83
Fleet	3.34 126	5.10 121	4.22 82
Flinders	2.36 89	- -	5.58 108
Granger	0.52 20	3.77 89	5.39 104
Hindmarsh	0.81 31	3.49 83	4.20 81
Keel	5.37 203	2.99 71	5.30 102
La Trobe	0.60 23	3.70 88	4.42 85
Leabrook	2.16 82	4.43 105	3.56 69
Oxford	2.67 101	5.11 121	6.20 120
RGT Planet	2.97 113	4.52 107	6.79 131
Rosalind	2.79 106	4.12 98	5.92 115
Scope	3.60 136	4.36 103	3.97 77
Spartacus CL	1.74 66	3.57 85	5.65 109
Site Mean (t/ha)	2.64	4.21	5.17
CV (%)	20.48	4.83	5.03
Probability	<0.001	<0.001	<0.001
LSD (t/ha)	0.88	0.34	0.42
Analysis Date	08/12/2019	29/11/2019	29/11/2019
Sowing Date	16/05/2019	17/05/2019	21/05/2019
Trial Comments	This trial has a CV greater than 15% indicating high variability across the trial from shattering and unacceptable within plot and trial variability. These trial results should not be used to make variety selection decisions.	WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST. Frost will affect varieties differently and trial results will be unreliable and not a true reflection of variety performance or ranking. These trial results should not be used to make variety selection decisions.	Not be released, unacceptable preharvest shattering. These trial results should not be used to make variety selection decisions.

2019 Quarantine Report South Australia Chickpea

Desi Chickpea Trial Yield data.

Region	Yorke P	
Nearest Town	Minlaton	
Crop Type	Chickpea	
Trial ID	DMDB19MINL5	
Variety Name	tonnes/ha	%
Ambar	1.01	140
Neelam	0.69	96
PBA Maiden	0.96	134
PBA Slasher	0.68	95
PBA Striker	0.64	89
Site Mean (t/ha)	0.72	
CV (%)	22.00	
Probability	0.00	
LSD (t/ha)	0.25	
Analysis Date	20/12/2019	
Sowing Date	08/05/2019	
Trial Comments	This trial has a CV greater than 15% indicating high variability across the trial. These trial results should not be used to make variety selection decisions.	

2019 Quarantine Report South Australia Faba bean

Faba Bean Trial Yield data.

Region	Murray Mallee	
Nearest Town	Lameroo	
Crop Type	Faba Bean	
Trial ID	FMaA19LAME5	
Variety Name	tonnes/ha	%
Farah	0.87	93
Fiesta VF	0.78	83
Nura	0.99	106
PBA Amberley	0.82	88
PBA Bendoc	1.08	115
PBA Marne	0.73	78
PBA Rana	0.84	90
PBA Samira	0.93	99
PBA Zahra	0.83	88
Site Mean (t/ha)	0.94	
CV (%)	15.23	
Probability	0.04	
LSD (t/ha)	0.23	
Analysis Date	28/11/2019	
Sowing Date	11/05/2019	
Trial Comments	This trial has a CV greater than 15% indicating high variability across the trial. These trial results should not be used to make variety selection decisions.	

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2019 Quarantine Report South Australia Field Pea

Field Pea Trial Yield data.

Region	Murray Mallee		South East	
Nearest Town	Lameroo		Mundulla	
Crop Type	Field Pea		Field Pea	
Trial ID	PMaA19LAME5		PMaB19MUND5	
Variety Name	tonnes/ha	%	tonnes/ha	%
Kaspa	0.15	70	1.70	82
PBA Butler	0.21	101	2.31	111
PBA Gunyah	0.24	111	1.74	84
PBA Oura	0.22	103	1.75	84
PBA Pearl	0.29	137	2.47	119
PBA Percy	0.19	92	1.87	90
PBA Wharton	0.15	71	1.93	93
Site Mean (t/ha)	0.21		2.07	
CV (%)	49.54		16.48	
Probability	0.04		0.01	
LSD (t/ha)	0.17		0.54	
Analysis Date	29/11/2019		16/12/2019	
Sowing Date	21/05/2019		31/05/2019	
Trial Comments	This trial has a CV greater than 15% indicating high variability across the trial. These trial results should not be used to make variety selection decisions.		This trial has a CV greater than 15% indicating high variability across the trial. These trial results should not be used to make variety selection decisions.	

2019 Quarantine Report South Australia Lentil

Lentil Trial Yield data.

Region	Lower EP		Murray Mallee	
Nearest Town	Yeelanna		Lameroo	
Crop Type	Lentil		Lentil	
Trial ID	QMaA19YEEL5		QMaA19LAME5	
Variety Name	tonnes/ha	%	tonnes/ha	%
Nipper	2.14	123	0.51	143
PBA Ace	2.23	128	0.38	106
PBA Blitz	2.18	125	0.23	64
PBA Bolt	1.83	105	0.37	103
PBA Hallmark XT	1.96	113	0.49	137
PBA Highland XT	1.51	87	0.32	91
PBA Hurricane XT	1.87	108	0.32	91
PBA Jumbo2	2.06	118	0.22	62
Site Mean (t/ha)	1.74		0.36	
CV (%)	14.22		30.77	
Probability	<0.001		0.04	
LSD (t/ha)	0.41		0.18	
Analysis Date	08/01/2020		10/12/2019	
Sowing Date	27/05/2019		21/05/2019	
Trial Comments	Trial severely affected by preharvest shattering. These trial results should not be used to make variety selection decisions.		This trial has a CV greater than 15% indicating high variability across the trial. These trial results should not be used to make variety selection decisions.	