



**GRDC**

GRAINS RESEARCH  
& DEVELOPMENT  
CORPORATION

# 2024 QUARANTINE REPORT



**SOUTH AUSTRALIA**



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## Important information for quarantined trials

To ensure the NVT results remain robust, relevant and of the highest quality, it is agreed policy to exclude trials that have been compromised by events that affect the accuracy of the results from being reported at the single site level. The damage caused by frost, wind, hail, drought and other events is random, uncontrollable, unpredictable and extremely variable in both timing and severity of the damage caused. Therefore, variety tolerances to frost and many other random climatic events cannot be measured or gauged in field-based NVT.

When uncontrolled events occur that are not uniform in their impact, the results are skewed and no longer representative of varietal performance. In these scenarios, the results are quarantined to avoid skewing the overall NVT results.

**\*\*WARNING\*\***

Results presented within this report provide growers with a transparent account of NVT trials that were severely compromised by various factors rendering them unsuitable for inclusion in reporting. These trials were harvested, but the results were 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 these results is strictly prohibited, and ANY parties MUST NOT use them for producing variety brochures and marketing material, sowing guides, grower notes or ANY OTHER publication or communication activity.

Cover: NVT Barley.

Photo: Ben O'Connor NVT Systems Manager

## Quarantined trials list

**Table 1: 2024 South Australian quarantined trials.**

Site description	Crop	Trial code	Sowing date	Harvest date	Mean yield	CV value	P value	F value
Cummins	Wheat	WMaA24CUMM5	3-Jun	3-Dec	4.22	5.51	<0.001	3.58
Rudall	Wheat	WMaA24RUDA5	6-Jun	20-Nov	2.40	8.07	<0.001	4.98
Mitchellville	Wheat	WMaA24MITC5	14-Jun	18-Nov	1.21	6.88	<0.001	2.81
Booleroo Centre	Wheat	WMaA24BOOL5	31-May	1-Nov	0.49	8.33	<0.001	16.44
Mintaro	Wheat	WMaA24MINT5	5-Jun	5-Dec	2.86	4.48	<0.001	17.94
Pinery	Wheat	WMaA24PINE5	30-May	22-Nov	1.89	4.88	<0.001	1469.59
Nangari	Wheat	WMaA24NANG5	12-Jun	21-Nov	1.10	6.14	<0.001	17.52
Pinnaroo	Wheat	WMaA24PINN5	11-Jun	4-Dec	1.99	9.17	<0.001	284.71
Wunkar	Wheat	WMaA24WUNK5	13-Jun	21-Nov	0.56	8.67	<0.001	9.82
Keith	Wheat	WMaA24KEIT5	3-Jun	5-Dec	3.32	5.89	<0.001	275.84
Pinery	Wheat	WMDA24PINE5	30-May	22-Nov	0.98	7.13	<0.001	898.25
Cummins	Barley	BMaA24CUMM5	3-Jun	3-Dec	5.11	3.58	<0.001	12.36
Cooke Plains	Barley	BMaA24COOK5	18-Jun	9-Dec	2.20	6.68	<0.001	180.95
Keith	Barley	BMaA24KEIT5	3-Jun	5-Dec	4.14	7.55	<0.001	4.78
Piednippie	Barley	BMaA24PIED5	12-Jun	15-Nov	1.39	5.40	<0.001	483.50
Urania	Canola	CHTA24URAN5	30-May	18-Nov	1.93	6.56	<0.001	19.46
Crystal Brook	Lentil	QMaA24CRYS5	6-Jun	1-Nov	0.32	9.41	<0.001	16.97
Owen	Lentil	QMIA24OWEN5	30-May	11-Nov	1.04	4.02	<0.001	260.03
Kimba	Lentil	QMIA24KIMB5	7-Jun	19-Nov	0.12	30.59	<0.001	66.78
Maitland	Lentil	QMIA24MAIT5	5-Jun	8-Nov	1.32	15.46	<0.001	38.00
Willamulka	Lentil	QMIA24WILL5	5-Jun	4-Nov	0.85	8.48	0.001	4.36
Halidon	Lupin	LMNA24HALI5	14-Jun	3-Dec	0.80	12.14	0.01	2.67

Values listed in red are outside the acceptable range: P value  $\geq 0.2$  and F value  $\leq 1.0$ .

## 2024 quarantine report South Australian wheat.

**Table 2: Eyre Peninsula main season wheat trial yield data**

Region	Lower EP		Lower EP		Upper EP	
Locality	Cummins		Rudall		Mitchellville	
Trial ID	WMaA24CUMM5		WMaA24RUDA5		WMaA24MITC5	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Ascot	3.53	84	2.43	102	-	-
Ballista	4.57	108	2.20	92	1.16	96
Boa	4.35	103	2.16	90	-	-
Boree	4.48	106	2.62	109	1.22	100
Brumby	4.54	107	2.33	97	1.30	108
Calibre	4.39	104	2.64	110	1.33	110
Catapult	4.54	107	2.47	103	1.19	98
Chief CL Plus	4.26	101	1.97	82	1.13	93
Denison	4.11	97	2.58	108	-	-
Dozer CL Plus	4.05	96	2.32	97	1.15	95
EG Titanium	3.99	94	2.16	90	1.24	103
Genie	4.15	98	2.52	105	1.40	116
Hammer CL Plus	4.04	96	2.40	100	1.22	101
Ironbark	4.22	100	2.26	94	-	-
Kingston	4.42	105	2.48	104	-	-
LRPB Anvil CL Plus	4.00	95	2.33	97	1.20	99
LRPB Dual	-	-	-	-	1.15	95
LRPB Major	4.29	102	2.66	111	1.28	106
LRPB Matador	4.38	104	2.50	104	1.09	90
LRPB Trojan	4.04	96	1.90	80	-	-
Mace	4.17	99	2.36	99	1.09	90
Mowhawk	3.74	88	2.14	89	-	-
Razor CL Plus	4.00	95	2.22	93	1.19	98
Reilly	3.94	93	2.30	96	1.19	98
RGT Ponsford	3.76	89	1.93	81	-	-
RockStar	4.40	104	2.17	91	1.33	110

**Table 2: Eyre Peninsula main season wheat trial yield data**

Region	Lower EP		Lower EP		Upper EP	
Locality	Cummins		Rudall		Mitchellville	
Trial ID	WMaA24CUMM5		WMaA24RUDA5		WMaA24MITC5	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Scepter	4.67	111	2.65	111	1.16	96
Sheriff CL Plus	4.16	99	1.98	83	1.07	88
Shotgun	4.43	105	2.90	121	1.25	103
Soaker	4.30	102	2.64	110	1.14	94
Sunblade CL Plus	4.21	100	2.17	91	1.23	102
Sunmaster	4.40	104	2.50	104	1.15	95
Tomahawk CL Plus	4.71	112	2.68	112	1.17	97
Valiant CL Plus	3.82	90	2.14	89	-	-
Vixen	4.48	106	2.49	104	1.20	99
Yitpi	3.98	94	2.05	85	1.23	102
Site mean (t/ha)	4.22	100	2.40	100	1.21	100
CV (%)	5.51		8.07		6.88	
Probability	<0.001		<0.001		<0.001	
LSD (t/ha)	0.41		0.34		0.14	
Sowing date	03-Jun-2024		06-Jun-2024		14-Jun-2024	
Trial comments	<p>WARNING: THIS TRIAL WAS BADLY AFFECTED BY WEED PRESSURE and is not released. Weed competition 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.</p>		<p>WARNING: Trial is not released due to unacceptable within plot and trial variability. The trial results would be unreliable and not a true reflection of variety performance. These trial results should not be used to make variety selection decisions.</p>		<p>WARNING: THIS TRIAL WAS AFFECTED BY HAIL and is not released. Storm damage 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.</p>	

**Table 3: Mid North main season wheat trial yield data**

Locality	Booleroo Centre		Mintaro		Pinery	
Trial ID	WMaA24BOOL5		WMaA24MINT5		WMaA24PINE5	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Ascot	0.50	101	2.84	99	2.00	106
Ballista	0.64	130	3.27	114	2.14	114
Boa	0.52	106	3.02	105	1.63	87
Boree	0.57	116	3.05	106	2.30	122
Brumby	0.64	129	3.01	105	2.33	124
Calibre	0.61	124	3.11	109	1.97	104
Catapult	0.49	98	3.00	105	1.92	102
Chief CL Plus	0.33	66	2.70	94	1.62	86
Denison	0.46	92	3.20	112	2.01	106
Dozer CL Plus	0.48	97	2.60	91	1.98	105
EG Titanium	0.48	97	3.11	108	2.31	122
Genie	0.43	88	2.84	99	2.06	109
Hammer CL Plus	0.63	128	2.51	88	1.88	100
Ironbark	0.42	84	2.88	101	1.55	82
Kingston	0.52	105	3.15	110	1.85	98
Lancelin	0.54	109	2.78	97	1.56	83
LRPB Anvil CL Plus	0.64	130	2.77	97	1.32	70
LRPB Bale	0.21	42	2.48	87	2.16	115
LRPB Dual	0.47	96	2.87	100	1.69	90
LRPB Major	0.41	82	2.43	85	2.09	111
LRPB Matador	0.54	108	3.04	106	1.86	99
LRPB Trojan	0.40	81	2.21	77	2.31	122
Mace	0.57	116	2.86	100	1.77	94
Mowhawk	0.37	75	2.64	92	2.18	116
Razor CL Plus	0.60	121	2.65	92	1.10	58
Reilly	0.57	115	3.12	109	1.41	75
RGT Ponsford	0.51	104	2.67	93	2.08	110
RGT Zanzibar	0.26	54	2.52	88	1.76	94
RockStar	0.51	103	2.91	102	2.10	111
Scepter	0.57	114	3.17	111	1.96	104

**Table 3: Mid North main season wheat trial yield data**

Locality	Booleroo Centre		Mintaro		Pinery	
Trial ID	WMaA24BOOL5		WMaA24MINT5		WMaA24PINE5	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Sheriff CL Plus	0.38	77	2.81	98	1.88	100
Shotgun	0.57	115	3.17	111	1.92	102
Soaker	0.44	89	2.61	91	1.70	90
Sunblade CL Plus	0.50	101	2.59	91	1.79	95
Sunmaster	0.49	100	2.88	101	1.98	105
Tomahawk CL Plus	0.59	120	3.07	107	1.86	99
Valiant CL Plus	0.29	59	2.45	86	2.35	124
Vixen	0.55	112	3.15	110	1.83	97
Yitpi	0.39	80	2.30	80	2.28	121
Site mean (t/ha)	0.49	100	2.86	100	1.89	100
CV (%)	8.33		4.48		4.88	
Probability	<0.001		<0.001		<0.001	
LSD (t/ha)	0.07		0.22		0.17	

Sowing date	31-May-2024	05-Jun-2024	30-May-2024
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Trial comments	<p>WARNING: Trial is not released due to severe drought. These trial results should not be used to make variety selection decisions.</p>	<p>WARNING: THIS TRIAL WAS BADLY AFFECTED BY WEED PRESSURE and is not released. Weed competition 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.</p>	<p>WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST and is not released. 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.</p>
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**Table 4: Murray Mallee main season wheat trial yield data**

Locality	Nangari		Pinnaroo		Wunkar	
Trial ID	WMaA24NANG5		WMaA24PINN5		WMaA24WUNK5	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Ballista	1.11	101	1.95	98	0.63	114
Boree	1.22	111	2.12	107	0.61	110
Brumby	1.20	109	1.91	96	0.63	114
Calibre	1.37	124	2.37	119	0.67	121
Catapult	1.23	112	2.20	111	0.56	100
Chief CL Plus	0.98	89	1.74	87	0.42	76
Dozer CL Plus	1.00	91	1.94	97	0.64	114
EG Titanium	1.20	109	2.21	111	0.44	80
Genie	1.30	118	2.45	123	0.43	78
Hammer CL Plus	0.97	88	1.70	86	0.56	100
LRPB Anvil CL Plus	1.17	106	2.08	105	0.65	117
LRPB Dual	1.06	96	2.07	104	0.45	81
LRPB Major	1.24	113	2.34	117	0.42	76
LRPB Matador	1.18	108	1.94	98	0.62	112
LRPB Scout	1.05	96	1.88	94	0.53	96
Mace	1.08	98	1.70	85	0.56	101
Razor CL Plus	0.92	84	1.46	73	0.67	120
Reilly	1.14	104	2.04	102	0.57	103
RockStar	1.06	96	2.21	111	0.47	85
Scepter	1.07	97	1.99	100	0.65	118
Sheriff CL Plus	1.06	96	1.93	97	0.42	76
Shotgun	1.11	101	2.00	101	0.63	114
Soaker	1.08	98	1.89	95	0.65	116
Sunblade CL Plus	0.67	60	1.64	83	0.49	88
Sunmaster	1.04	95	2.01	101	0.59	106
Tomahawk CL Plus	1.15	105	1.97	99	0.70	126
Vixen	1.07	97	1.79	90	0.63	113
Yitpi	1.17	106	2.20	110	0.42	75

**Table 4: Murray Mallee main season wheat trial yield data**

Locality	Nangari		Pinnaroo		Wunkar	
Trial ID	WMaA24NANG5		WMaA24PINN5		WMaA24WUNK5	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Site mean (t/ha)	1.10	100	1.99	100	0.56	100
CV (%)	6.14		9.17		8.67	
Probability	<0.001		<0.001		<0.001	
LSD (t/ha)	0.12		0.32		0.08	
Sowing date	12-Jun-2024		11-Jun-2024		13-Jun-2024	
Trial comments	WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST and is not released. 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.		WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST and is not released. 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.		WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST and is not released. 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.	

**Table 5: South East main season wheat trial yield data**

Locality	Keith	
Trial ID	WMaA24KEIT5	
Variety name	tonnes/ha	% site mean
Ballista	3.31	100
Beckom	3.22	97
Boa	3.25	98
Boree	3.54	107
Brumby	3.60	108
Calibre	3.60	109
Catapult	3.65	110
Chief CL Plus	3.26	98
Denison	3.96	120
EG Jet	3.25	98
EG Titanium	3.19	96
Genie	3.71	112
Hammer CL Plus	3.25	98
Ironbark	3.09	93
Kingston	3.05	92
Lancelin	3.28	99
LRPB Major	3.40	103
LRPB Matador	3.56	107
LRPB Trojan	3.59	108
Mace	3.17	96
Mowhawk	3.37	102
Razor CL Plus	2.76	83
Reilly	3.27	98
RGT Ponsford	3.10	93
RGT Zanzibar	2.71	82
RockStar	3.73	113
Scepter	3.27	99

**Table 5: South East main season wheat trial yield data**

Locality	Keith	
Trial ID	WMAA24KEIT5	
Variety name	tonnes/ha	% site mean
Sheriff CL Plus	3.64	110
Shotgun	3.72	112
Soaker	3.25	98
Sunblade CL Plus	3.22	97
Sunmaster	3.18	96
Tomahawk CL Plus	3.36	101
Valiant CL Plus	3.37	102
Vixen	3.23	97
Yitpi	2.96	89
Site mean (t/ha)	3.32	100
CV (%)	5.89	
Probability	<0.001	
LSD (t/ha)	0.34	
Sowing date	03-Jun-2024	
Trial comments	<p>WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST and is not released. 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.</p>	



**Table 6: Durum wheat trial yield data**

Region	Mid North	
Locality	Pinery	
Trial ID	WMDA24PINE5	
Variety name	tonnes/ha	% site mean
Bitalli	0.76	77
Caparoi	1.24	126
DBA Bindaroi	0.91	93
DBA Mataroi	0.63	64
DBA Vittaroi	0.48	49
DBA-Aurora	1.13	115
Hyperno	1.06	108
Patron	1.05	107
Saintly	0.56	57
Westcourt	1.26	128
Site mean (t/ha)	0.98	100
CV (%)	7.13	
Probability	<0.001	
LSD (t/ha)	0.11	
Sowing date	30-May-2024	
Trial comments	WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST and is not released. 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.	

## 2024 quarantine report South Australian barley.

**Table 7: Barley main season trial yield data.**

Region	Lower EP		Murray Mallee		South East		Upper EP	
Locality	Cummins		Cooke Plains		Keith		Piednippie	
Trial ID	BMAA24CUMM5		BMAA24COOK5		BMAA24KEIT5		BMAA24PIED5	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Alestar	4.60	90	2.23	101	3.66	88	1.40	101
Beast	5.38	105	2.04	93	5.05	122	1.60	115
Bigfoot CL	5.56	109	2.22	101	4.34	105	1.38	100
Bottler	4.73	93	-	-	4.02	97	-	-
Buff	4.92	96	2.11	96	3.97	96	1.34	97
Combat	5.62	110	2.50	114	4.74	114	1.59	115
Commodus CL	5.32	104	2.39	108	4.24	102	1.60	115
Compass	5.02	98	2.01	91	4.45	108	1.51	109
Cyclops	5.45	107	2.32	105	4.58	111	1.54	111
Fandaga	-	-	-	-	4.22	102	-	-
Fathom	4.40	86	2.52	114	4.30	104	1.52	110
Granite CL	5.41	106	-	-	-	-	-	-
Kiwi	-	-	-	-	3.89	94	-	-
La Trobe	5.34	105	2.08	94	4.29	104	1.31	94
Laperouse	5.12	100	2.43	111	4.45	108	1.48	106
Leabrook	5.28	103	2.52	115	4.77	115	1.50	108
Maximus CL	5.47	107	2.03	92	3.79	91	1.33	96
Minotaur	5.51	108	2.35	107	4.10	99	1.37	99

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**Table 7: Barley main season trial yield data.**

Region	Lower EP		Murray Mallee		South East		Upper EP	
Locality	Cummins		Cooke Plains		Keith		Piednippie	
Trial ID	BMAA24CUMM5		BMAA24COOK5		BMAA24KEIT5		BMAA24PIED5	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Neo CL	5.68	111	2.11	96	4.33	105	1.16	84
PegasusAX	5.15	101	2.08	95	4.11	99	1.49	107
RGT Atlantis	4.83	95	-	-	3.75	91	-	-
RGT Planet	4.70	92	2.16	98	3.94	95	1.32	95
Rosalind	4.96	97	2.21	101	3.70	89	1.56	112
Scope CL	-	-	2.03	92	-	-	1.36	98
Spartacus CL	5.18	101	1.73	79	3.96	96	1.22	88
Spinnaker	4.70	92	2.07	94	4.10	99	1.08	78
Titan AX	4.72	92	2.71	123	4.39	106	1.51	109
Yeti	5.54	109	2.18	99	4.46	108	1.64	118
Zena CL	4.67	91	2.28	104	4.03	97	1.31	95
Site mean (t/ha)	5.11	100	2.20	100	4.14	100	1.39	100
CV (%)	3.58		6.68		7.55		5.40	
Probability	<0.001		<0.001		<0.001		<0.001	
LSD (t/ha)	0.32		0.26		0.54		0.14	
Sowing date	03-Jun-2024		18-Jun-2024		03-Jun-2024		12-Jun-2024	

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**Table 7: Barley main season trial yield data.**

Region	Lower EP		Murray Mallee		South East		Upper EP	
Locality	Cummins		Cooke Plains		Keith		Piednippie	
Trial ID	BMAA24CUMM5		BMAA24COOK5		BMAA24KEIT5		BMAA24PIED5	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Trial comments	WARNING: THIS TRIAL WAS BADLY AFFECTED BY WEED PRESSURE and is not released. Weed competition 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.		WARNING: Trial is not released due to poor establishment causing within plot and trial variability. The trial results would be unreliable and not a true reflection of variety performance. These trial results should not be used to make variety selection decisions.		WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST and is not released. 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.		WARNING: Trial is not released due to seeder drag compromising varietal purity within plots. These trial results should not be used to make variety selection decisions.	



## 2024 quarantine report South Australian canola.

**Table 8: Medium-high rainfall triazine tolerant trial yield data.**

Region	Yorke P	
Locality	Urania	
Trial ID	CHTA24URAN5	
Variety name	tonnes/ha	% site mean
ATR Bonito	1.41	73
DG BIDGEE TT	1.73	90
DG Torrens TT	1.30	67
Hyola Blazer TT	2.23	116
Hyola Defender CT	2.00	104
HyTTec Trident	2.32	120
HyTTec Trifecta	2.32	120
HyTTec Trophy	2.12	110
InVigor LT 4530P	1.64	85
InVigor T 4511	2.16	112
Nuseed Griffon TTI	1.86	96
Pioneer PY520TC	2.25	116
Renegade TT	1.79	93
RGT Baseline TT	1.94	101
RGT Capacity TT	1.84	95
SF Dynatron TT	2.06	107
Site mean (t/ha)	1.93	100
CV (%)	6.56	
Probability	<0.001	
LSD (t/ha)	0.21	
Sowing date	30-May-2024	
Trial comments	WARNING: Trial is not released due to unacceptable within plot and trial variability. The trial results would be unreliable and not a true reflection of variety performance. These trial results should not be used to make variety selection decisions.	

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## 2024 quarantine report South Australian lentil.

**Table 9: Lentil trial yield data.**

Region	Mid North		Mid North		Upper EP		Yorke P		Yorke P	
Locality	Crystal Brook		Owen		Kimba		Maitland		Willamulka	
Trial ID	QMaA24CRYS5		QMIA24OWEN5		QMIA24KIMB5		QMIA24MAIT5		QMIA24WILL5	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
ALB Terrier	0.30	93	1.16	111	0.06	51	1.47	111	0.81	96
GIA Leader	0.24	76	0.97	93	0.06	48	1.14	86	0.90	106
GIA Lightning	0.39	122	1.11	106	0.13	117	1.41	107	0.91	108
GIA Metro	0.24	74	0.89	85	0.09	76	0.80	60	0.78	92
GIA Sire	0.16	49	0.84	80	0.08	73	1.29	97	0.56	67
GIA Thunder	0.35	111	1.14	109	0.13	117	1.49	113	0.89	105
PBA Bolt	0.38	119	-	-	-	-	-	-	-	-
PBA Hallmark XT	0.37	116	1.02	98	0.16	135	1.29	98	0.83	98
PBA HighlandXT	0.42	133	1.02	98	0.17	148	1.39	106	0.81	96
PBA Hurricane XT	0.33	104	0.99	95	0.13	111	1.28	97	0.86	102
PBA Jumbo2	0.31	96	-	-	-	-	-	-	-	-
PBA Kelpie XT	0.35	111	1.07	102	0.11	93	1.20	91	0.88	104
Site mean (t/ha)	0.32	100	1.04	100	0.12	100	1.32	100	0.85	100

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**Table 9: Lentil trial yield data.**

Region	Mid North		Mid North		Upper EP		Yorke P		Yorke P	
Locality	Crystal Brook		Owen		Kimba		Maitland		Willamulka	
Trial ID	QMaA24CRYS5		QMIA24OWEN5		QMIA24KIMB5		QMIA24MAIT5		QMIA24WILL5	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
CV (%)	9.41		4.02		30.59		15.46		8.48	
Probability	<0.001		<0.001		<0.001		<0.001		0.00	
LSD (t/ha)	0.05		0.07		0.06		0.33		0.12	
Sowing date	06-Jun-2024		30-May-2024		07-Jun-2024		05-Jun-2024		05-Jun-2024	
Trial comments	WARNING: This trial yielded 0.3 t/ha and will display a low significance of varietal differences. These trial results should not be used to make variety selection decisions.		WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST and is not released. 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.		WARNING: This trial yielded less than 0.3 t/ha. These trial results should not be used to make variety selection decisions.		WARNING: Trial is not released due to significant weed pressure affecting trial variability. The trial results would be unreliable and not a true reflection of variety performance. These trial results should not be used to make variety selection decisions.		WARNING: Trial is not released due to extensive weed pressure causing unacceptable within trial variability. These trial results should not be used to make variety selection decisions.	

## 2024 quarantine report South Australian lupin.

**Table 10: Lupin trial yield data.**

Region	Murray Mallee	
Locality	Halidon	
Trial ID	LMNA24HALI5	
Variety name	tonnes/ha	% site mean
Coyote	0.71	88
Gidgee	0.99	123
Jenabillup	0.79	98
Lawler	0.72	89
Mandelup	0.73	91
PBA Barlock	0.80	100
PBA Bateman	0.80	99
PBA Gunyidi	0.67	83
PBA Jurien	0.90	111
Rosemont	0.86	107
Wonga	0.82	102
Site mean (t/ha)	0.80	100
CV (%)	12.14	
Probability	0.01	
LSD (t/ha)	0.16	
Sowing date	14-Jun-2024	
Trial comments	WARNING: Trial is not released due to unacceptable within plot and trial variability. The trial results would be unreliable and not a true reflection of variety performance. These trial results should not be used to make variety selection decisions.	