

2022 QUARANTINE REPORT



NEW SOUTH WALES

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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.

Quarantined trials list

Table 1: 2022 New South Wales quarantined trials.

Site description	Crop	Trial code	Sowing date	Harvest date	Mean yield	CV value	P value	F value
Spring Ridge	Wheat	WMaA22SPRR2	24-May	22-Dec	3.88	3.24	<0.001	27.91
Bullarah	Wheat	WMaA22BULL2	16-Jun	10-Dec	3.05	6.25	<0.001	51.05
Coolah	Wheat	WMaA22COOL2	10-May	15-Dec	3.40	8.66	<0.001	86.49
Bellata	Wheat	WMaA22BELL2	25-May	17-Nov	3.77	7.17	<0.001	94.74
Coolah	Wheat	WEaA22COOL2	10-May	15-Dec	4.16	7.56	<0.001	116.10
Coolah	Oat	OMaA22COOL2	16-Jun	15-Dec	2.60	9.84	<0.001	22.62
Cootamundra	Canola	CHIA22COOT2	2-May	6-Dec	1.36	21.04	<0.001	5.74
Bellata	Chickpea	DMDA22BELL2	23-Jun	19-Dec	1.47	5.91	0.002	30.94
Walgett	Chickpea	DMDA22WALG2	14-Jun	26-Nov	0.16	31.37	<0.001	5.24
Walgett	Chickpea	DMKA22WALG2	14-Jun	26-Nov	0.26	19.02	0.008	3.19
Temora	Field Pea	PMaA22TEMO2	25-May	30-Nov	1.37	17.50	<0.001	112.23

Values listed in red are outside the acceptable range: CV \geq 15%, P value \geq 0.2 and F value \leq 1.0.

2022 quarantine report New South Wales wheat.

Table 2: Main season wheat trial data.

Region	N/E		N/E		N/E		N/W	
Locality	Bellata		Coolah		Spring Ridge		Bullarah	
Trial ID	WMaA22BELL2		WMaA22COOL2		WMaA22SPRR2		WMaA22BULL2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Beckom	5.44	144	5.62	165	4.04	104	3.37	111
Boree	0.94	25	0.41	12	4.10	106	1.41	46
Borlaug 100	4.28	114	0.98	29	4.19	108	4.04	133
Brumby	2.78	74	2.01	59	3.99	103	2.87	94
Calibre	2.63	70	2.07	61	3.82	98	2.39	78
Catapult	1.07	28	0.86	25	3.56	92	1.67	55
Condo	5.31	141	5.22	154	4.02	104	3.71	122
Coolah	2.44	65	1.62	48	3.74	96	2.49	82
Coota	1.83	48	1.86	55	3.20	82	1.91	63
DS Faraday	3.13	83	2.86	84	3.59	93	2.63	86
DS Tull	-	-	-	-	-	-	2.89	95
EG Titanium	3.62	96	3.32	98	3.02	78	2.38	78
EGA Gregory	3.00	80	2.69	79	3.67	95	2.47	81
Elmore CL Plus	4.26	113	5.13	151	3.87	100	2.91	96
Jillaroo	1.79	47	1.85	54	3.43	88	2.06	68
LG Gold	1.39	37	0.75	22	3.84	99	2.39	79
LRPB Flanker	2.77	74	1.75	51	3.84	99	2.71	89
LRPB Hellfire	3.71	99	3.85	113	3.62	93	2.82	93
LRPB Impala	5.19	138	4.88	143	3.88	100	3.27	107
LRPB Lancer	5.34	142	4.98	146	3.45	89	3.25	107
LRPB Mustang	4.36	116	4.35	128	3.73	96	2.91	95
LRPB Oryx	5.49	146	4.45	131	3.96	102	3.51	115
LRPB Raider	4.68	124	5.30	156	3.66	94	2.72	89
LRPB Reliant	4.76	126	5.09	150	3.77	97	2.65	87
LRPB Scotch	4.62	123	4.87	143	3.86	100	3.24	106
LRPB Spitfire	2.78	74	3.35	99	3.49	90	2.41	79
LRPB Stealth	5.21	138	5.76	169	3.55	92	3.74	123
QAL2000	2.24	59	2.65	78	3.60	93	-	-
Rebel Rat	5.04	134	2.66	78	4.31	111	4.60	151
RockStar	0.99	26	1.84	54	3.84	99	1.76	58
Scepter	3.36	89	1.89	56	4.01	103	3.50	115
SEA Condamine	2.93	78	2.02	60	4.40	113	3.56	117
Sunblade CL Plus	5.38	143	4.90	144	4.20	108	3.68	121
Suncentral	2.91	77	3.67	108	4.31	111	2.52	83

Table 2: Main season wheat trial data.

Region	N/E		N/E		N/E		N/W	
Locality	Bellata		Coolah		Spring Ridge		Bullarah	
Trial ID	WMAA22BELL2		WMAA22COOL2		WMAA22SPRR2		WMAA22BULL2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Sunchaser	5.80	154	5.40	159	4.21	108	3.88	127
Sunmaster	4.69	124	3.46	102	4.17	107	3.88	127
Sunprime	3.07	81	3.57	105	3.72	96	2.87	94
Suntop	5.11	136	4.25	125	4.00	103	3.70	122
Vixen	1.19	32	1.13	33	3.59	93	1.98	65
Site mean (t/ha)	3.77	100	3.40	100	3.88	100	3.05	100
CV (%)	7.17		8.66		3.24		6.25	
Probability	<0.001		<0.001		<0.001		<0.001	
LSD (t/ha)	0.44		0.49		0.21		0.32	

Sowing date	25-May-2022	10-May-2022	24-May-2022	16-Jun-2022
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Trial comments	<p>WARNING: THIS TRIAL WAS AFFECTED BY DISEASE and is not released. Disease will affect varieties differently and trial results will be unreliable and not a true reflection of variety performance or ranking. The results to be published in the quarantine report. These trial results should not be used to make variety selection decisions.</p>	<p>WARNING: THIS TRIAL WAS AFFECTED BY DISEASE and is not released. Disease will affect varieties differently and trial results will be unreliable and not a true reflection of variety performance or ranking. The results to be published in the quarantine report. These trial results should not be used to make variety selection decisions.</p>	<p>WARNING: THIS TRIAL WAS AFFECTED BY DISEASE and is not released. Disease will affect varieties differently and trial results will be unreliable and not a true reflection of variety performance or ranking. The results to be published in the quarantine report. These trial results should not be used to make variety selection decisions.</p>	<p>WARNING: THIS TRIAL WAS AFFECTED BY DISEASE and is not released. Disease will affect varieties differently and trial results will be unreliable and not a true reflection of variety performance or ranking. The results to be published in the quarantine report. These trial results should not be used to make variety selection decisions.</p>
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Table 3: Early season wheat trial data.

Region	N/E	
Locality	Coolah	
Trial ID	WEaA22COOL2	
Variety name	tonnes/ha	% site mean
Catapult	0.69	17
Coolah	0.98	24
Coota	1.47	35
DS Faraday	2.18	52
DS Tull	5.88	141
EG Titanium	3.17	76
EGA Gregory	2.19	53
EGA Wedgetail	3.67	88
Illabo	5.97	144
Longsword	5.72	138
LRPB Flanker	1.24	30
LRPB Kittyhawk	5.96	143
LRPB Lancer	5.64	136
LRPB Nighthawk	6.24	150
LRPB Raider	5.26	126
LRPB Reliant	4.98	120
LRPB Scotch	4.51	108
LRPB Stealth	5.67	136
Rebel 65	1.66	40
RGT Zanzibar	7.45	179
RockStar	1.37	33
Severn	6.71	161
Sunflex	3.42	82
Sunmax	6.63	159
Valiant CL Plus	2.55	61
Site mean (t/ha)	4.16	100
CV (%)	7.56	
Probability	<0.001	
LSD (t/ha)	0.51	

Sowing date 10-May-2022

Trial comments

WARNING: THIS TRIAL WAS AFFECTED BY DISEASE and is not released. Disease will affect varieties differently, and trial results will be unreliable and not a true reflection of variety performance or ranking. The results to be published in the quarantine report. These trial results should not be used to make variety selection decisions.

2022 quarantine report New South Wales oat.

Table 4: Oat yield trial data.		
Region	N/E	
Locality	Coolah	
Trial ID	OMaA22COOL2	
Variety name	tonnes/ha	% site mean
Bannister	1.75	67
Bilby	2.69	103
Durack	2.93	113
Koala	2.35	90
Koorabup	2.78	107
Kowari	2.09	80
Mitika	2.63	101
Possum	3.06	118
Williams	2.89	111
Yallara	2.33	90
Site mean (t/ha)	2.60	100
CV (%)	9.84	
Probability	<0.001	
LSD (t/ha)	0.46	
Sowing date	16-Jun-2022	
Trial comments	<p>WARNING: THIS TRIAL WAS AFFECTED BY DISEASE and is not released. Disease will affect varieties differently and trial results will be unreliable and not a true reflection of variety performance or ranking. The results are to be published in the quarantine report. These trial results should not be used to make variety selection decisions.</p>	

2022 quarantine report New South Wales canola.

Table 5: Medium-high rainfall imidazoline tolerant yield trial data.

Region	S/E	
Locality	Cootamundra	
Trial ID	CHIA22COOT2	
Variety name	tonnes/ha	% site mean
Hyola Solstice CL	1.73	127
Pioneer 44Y94 CL	1.39	102
Pioneer 45Y93 CL	1.40	103
Pioneer 45Y95 (CL)	1.08	79
PY520TC	1.22	89
Site mean (t/ha)	1.36	100
CV (%)	21.04	
Probability	<0.001	
LSD (t/ha)	0.48	
Sowing date	02-May-2022	
Trial comments	WARNING: This trial displayed a degree of variability as indicated by the high CV of 21.0%, indicating high variability across the trial. Trial is not released and will be available via the quarantine report. These trial results should not be used to make variety selection decisions.	

2022 quarantine report New South Wales chickpea.

Table 6: Desi chickpea yield trial data.

Region	N/E		N/W	
Locality	Bellata		Walgett	
Trial ID	DMDA22BELL2		DMDA22WALG2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean
Kyabra	0.91	62	0.18	111
PBA Boundary	1.38	94	0.15	93
PBA Drummond	1.40	95	0.24	148
PBA HatTrick	1.72	117	0.21	129
PBA Seamer	1.82	124	0.23	145
Site mean (t/ha)	1.47	100	0.16	100
CV (%)	5.91		31.37	
Probability	0.00		<0.001	
LSD (t/ha)	0.20		0.08	

Sowing date

23-Jun-2022

14-Jun-2022

Trial comments

WARNING: THIS TRIAL WAS AFFECTED BY WATERLOGGING and PRE-MATURE SENESENCE and is not released. These affected varieties differently and trial results will be unreliable and not a true reflection of variety performance or ranking. The results to be published in the quarantine report. These trial results should not be used to make variety selection decisions.

This trial displayed a degree of variability as indicated by the low site mean yield and a high CV of 31.4%, indicating high variability across the trial. Interpret results with caution. Trial is not released and will be available via the quarantine report. These trial results should not be used to make variety selection decisions.

Table 7: Kabuli chickpea yield trial data.

Region	N/W	
Locality	Walgett	
Trial ID	DMKA22WALG2	
Variety name	tonnes/ha	% site mean
Almaz	0.28	106
Genesis 090	0.23	87
Genesis Kalkee	0.27	104
PBA Magnus	0.21	81
PBA Monarch	0.34	130
PBA Royal	0.24	91
Site mean (t/ha)	0.26	100
CV (%)	19.02	
Probability	0.01	
LSD (t/ha)	0.08	
Sowing date	14-Jun-2022	
Trial comments	This trial displayed a degree of variability as indicated by the low site mean yield and a high CV of 19.0%, indicating high variability across the trial. Interpret results with caution. Trial is not released and will be available via the quarantine report. These trial results should not be used to make variety selection decisions.	

2022 quarantine report New South Wales field pea.

Table 8: Field pea yield trial data.

Region	S/E	
Locality	Temora	
Trial ID	PMaA22TEMO2	
Variety name	tonnes/ha	% site mean
GIA Kastar	0.68	50
GIA Ourstar	0.94	69
Kaspa	1.30	95
PBA Butler	1.55	113
PBA Noosa	1.19	87
PBA Oura	0.99	72
PBA Pearl	1.81	132
PBA Percy	1.33	97
PBA Taylor	1.31	96
PBA Wharton	1.15	85
Sturt	1.17	86
Site mean (t/ha)	1.37	100
CV (%)	17.50	
Probability	<0.001	
LSD (t/ha)	0.40	

Sowing date	25-May-2022
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Trial comments

WARNING: This trial displayed a degree of variability as indicated by the high CV of 17.5%, indicating high variability across the trial. Trial is not released and will be available via the quarantine report. These trial results should not be used to make variety selection decisions.