

2022 QUARANTINE REPORT



QUEENSLAND

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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 Queensland quarantined trials.

Site description	Crop	Trial code	Sowing date	Harvest date	Mean yield	CV value	P value	F value
Brookstead	Wheat	WMaA22BROO4	17-Jun	24-Nov	3.85	6.47	<0.001	3539.19
Dulacca	Wheat	WMaA22DULA4	2-Jun	10-Nov	5.46	5.37	<0.001	48.82
Macalister	Wheat	WMaA22MCAL4	21-Jun	9-Dec	4.97	6.07	<0.001	41.07
Mungindi	Wheat	WMaA22MUNG4	16-Jun	15-Dec	2.66	7.59	<0.001	24.07
Roma	Wheat	WMaA22ROMA4	2-Jun	11-Nov	4.62	7.15	<0.001	27.68
Westmar	Wheat	WMaA22WEST4	1-Jun	12-Nov	4.02	5.46	<0.001	58.85
Yelarbon	Wheat	WMaA22YELA4	18-Jun	30-Nov	4.72	5.79	<0.001	1517.88
Brookstead	Barley	BMaA22BROO4	17-Jun	24-Nov	3.62	10.29	<0.001	7.07
Macalister	Barley	BMaA22MCAL4	21-Jun	9-Dec	3.44	12.39	<0.001	8.41

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

2022 quarantine report Queensland wheat.

Table 2: South East main season wheat trial yield data

Region	SEQ		SEQ	
Locality	Brookstead		MacAlister	
Trial ID	WMaA22BROO4		WMaA22MCAL4	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean
Boree	1.53	40	2.06	41
Borlaug 100	4.82	125	5.95	120
Calibre	3.22	84	4.00	80
Catapult	1.77	46	3.40	68
Condo	5.00	130	5.51	111
Coota	2.48	64	2.80	56
DS Faraday	3.86	100	5.21	105
EG Titanium	3.46	90	5.06	102
Elmore CL Plus	4.50	117	5.63	113
Jillaroo	1.90	49	3.28	66
LG Gold	2.18	57	4.22	85
LRPB Flanker	4.11	107	5.04	101
LRPB Hellfire	3.99	104	4.96	100
LRPB Lancer	4.59	119	5.68	114
LRPB Mustang	4.06	105	5.48	110
LRPB Raider	4.68	122	5.58	112
LRPB Reliant	4.73	123	5.36	108
LRPB Spitfire	2.91	76	4.26	86
LRPB Stealth	4.84	126	5.76	116
Rebel Rat	5.39	140	6.26	126
RockStar	1.61	42	2.45	49

Table 2: South East main season wheat trial yield data

Region	SEQ		SEQ	
Locality	Brookstead		MacAlister	
Trial ID	WMaA22BROO4		WMaA22MCAL4	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean
Scepter	4.08	106	4.76	96
SEA Condamine	4.30	112	5.57	112
Sunblade CL Plus	4.47	116	5.92	119
Suncentral	3.32	86	4.50	91
Sunchaser	5.51	143	5.32	107
Sunmaster	4.82	125	6.18	124
Sunprime	3.31	86	5.30	107
Suntop	4.86	126	5.94	120
Vixen	0.89	23	2.79	56
Site mean (t/ha)	3.85	100	4.97	100
CV (%)	6.47		6.07	
Probability	<0.001		<0.001	
LSD (t/ha)	0.43		0.49	
Sowing date	17-Jun-2022		21-Jun-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.

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Table 3: South West main season wheat trial yield data.

Region	SWQ		SWQ		SWQ		SWQ		SWQ	
Locality	Dulacca		Mungindi		Roma		Westmar		Yelarbon	
Trial ID	WMaA22DULA4		WMaA22MUNG4		WMaA22ROMA4		WMaA22WEST4		WMaA22YELA4	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Boree	3.36	61	2.19	82	2.66	58	2.08	52	3.37	71
Borlaug 100	6.66	122	2.86	108	5.60	121	4.72	118	5.87	124
Calibre	4.91	90	2.54	95	3.62	78	3.42	85	4.11	87
Catapult	3.17	58	1.97	74	2.90	63	2.30	57	2.78	59
Condo	6.25	114	3.15	118	5.30	115	5.33	133	5.65	120
Coota	3.99	73	1.99	75	3.02	65	2.71	67	3.08	65
DS Faraday	4.91	90	2.61	98	4.88	106	4.15	103	4.72	100
Elmore CL Plus	5.40	99	2.84	107	3.78	82	3.63	90	4.78	101
Jillaroo	3.73	68	1.45	54	3.87	84	2.47	61	3.77	80
LG Gold	3.97	73	1.64	62	3.32	72	2.64	66	3.60	76
LRPB Flanker	4.93	90	2.73	103	4.80	104	3.87	96	4.49	95
LRPB Hellfire	5.43	99	2.38	89	4.89	106	3.79	94	4.62	98
LRPB Lancer	5.73	105	2.81	105	5.09	110	4.31	107	4.61	98
LRPB Mustang	5.50	101	2.79	105	5.12	111	4.08	101	4.62	98
LRPB Raider	5.75	105	2.74	103	5.78	125	4.74	118	4.98	105

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Table 3: South West main season wheat trial yield data.

Region	SWQ		SWQ		SWQ		SWQ		SWQ	
Locality	Dulacca		Mungindi		Roma		Westmar		Yelarbon	
Trial ID	WMAA22DULA4		WMAA22MUNG4		WMAA22ROMA4		WMAA22WEST4		WMAA22YELA4	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
LRPB Reliant	4.95	91	2.47	93	5.29	115	4.78	119	4.96	105
LRPB Spitfire	5.06	93	2.07	78	4.02	87	3.50	87	4.17	88
LRPB Stealth	5.75	105	3.12	117	5.23	113	4.63	115	4.86	103
Rebel Rat	6.55	120	3.09	116	5.61	121	4.84	121	6.03	128
RockStar	3.45	63	2.02	76	3.16	68	2.47	62	3.20	68
Scepter	5.44	100	3.07	115	4.46	97	3.75	93	4.76	101
SEA Condamine	5.76	105	2.82	106	4.90	106	4.17	104	5.52	117
Sunblade CL Plus	7.02	128	3.06	115	6.20	134	4.82	120	5.41	115
Suncentral	5.97	109	2.76	104	4.68	101	4.05	101	4.81	102
Sunchaser	6.71	123	3.17	119	5.80	126	5.07	126	5.70	121
Sunmaster	7.20	132	3.21	121	6.14	133	5.41	135	5.79	123
Sunprime	5.46	100	2.67	100	4.90	106	3.76	94	4.43	94
Suntop	6.79	124	3.04	114	5.04	109	4.94	123	5.59	118
Vixen	2.49	46	1.40	53	2.89	63	1.98	49	3.27	69
Site mean (t/ha)	5.46	100	2.66	100	4.62	100	4.02	100	4.72	100

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Table 3: South West main season wheat trial yield data.

Region	SWQ		SWQ		SWQ		SWQ		SWQ	
Locality	Dulacca		Mungindi		Roma		Westmar		Yelarbon	
Trial ID	WMAA22DULA4		WMAA22MUNG4		WMAA22ROMA4		WMAA22WEST4		WMAA22YELA4	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
CV (%)	5.37		7.59		7.15		5.46		5.79	
Probability	<0.001		<0.001		<0.001		<0.001		<0.001	
LSD (t/ha)	0.49		0.35		0.54		0.38		0.45	
Sowing date	02-Jun-2022		16-Jun-2022		02-Jun-2022		01-Jun-2022		18-Jun-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.		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.		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.		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.		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 Queensland barley.

Table 4: Barley trial yield data.

Region	SEQ		SEQ	
Locality	Brookstead		MacAlister	
Trial ID	BMAA22BROO4		BMAA22MCAL4	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean
Alestar	4.00	110	3.55	103
Beast	3.80	105	4.01	117
Bottler	4.26	117	4.29	125
Combat	3.68	102	3.28	95
Commander	3.72	103	3.42	99
Commodus CL	3.67	101	3.51	102
Compass	3.31	91	2.58	75
Cyclops	2.75	76	2.72	79
Fathom	3.09	85	2.94	86
La Trobe	4.10	113	3.22	94
Laperouse	3.40	94	3.19	93
Leabrook	3.20	88	2.57	75
Maximus CL	4.27	118	4.14	120
Minotaur	2.50	69	2.79	81
RGT Planet	4.61	127	3.96	115
Rosalind	4.27	118	3.69	107
Spartacus CL	2.71	75	3.66	106
Titan AX	3.05	84	2.58	75
Yeti	3.73	103	4.12	120
Zena CL	3.89	107	4.40	128
Site mean (t/ha)	3.62	100	3.44	100
CV (%)	10.29		12.39	
Probability	<0.001		<0.001	
LSD (t/ha)	0.61		0.69	
Sowing date	17-Jun-2022		21-Jun-2022	
Trial comments	<p>WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY Lodging and Head Loss, affecting 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 is not to be released but will be available via the quarantine report.</p>		<p>WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY Lodging and Head Loss, affecting 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 is not to be released but will be available via the quarantine report.</p>	