



GRDC

GRAINS RESEARCH
& DEVELOPMENT
CORPORATION

2023 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.

Cover: NVT Barley.

Photo: Ben O'Connor NVT Systems Manager

Quarantined trials list

Table 1: 2023 New South Wales quarantined trials.

Site description	Crop	Trial code	Sowing date	Harvest date	Mean yield	CV value	P value	F value
Bullarah	Wheat	WMaA23BULL2	2-Jun	16-Nov	1.40	11.62	<0.001	1474.89
Spring Ridge	Wheat	WMaA23SPRR2	9-May	11-Dec	3.62	5.87	<0.001	2008.27
Spring Ridge	Wheat	WMDA23SPRR2	9-May	11-Dec	2.43	4.59	<0.001	1857.51
Yenda	Wheat	WMDA23YEND2	19-May	20-Dec	1.93	7.11	<0.001	17.89

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

2023 quarantine report New South Wales wheat.

Table 2: Main season wheat trial yield data.

Region	N/W		N/E	
Locality	Bullarah		Spring Ridge	
Trial ID	WMaA23BULL2		WMaA23SPRR2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean
Beckom	1.39	99	3.92	108
Boree	1.00	72	3.63	100
Borlaug 100	1.95	140	3.45	95
Brumby	0.85	61	4.07	112
Calibre	1.19	85	3.96	109
Catapult	0.88	63	4.09	113
Condo	1.54	110	2.04	56
Coolah	1.17	84	4.82	133
Coota	1.28	92	4.33	120
DS Faraday	0.71	51	3.89	107
DS Tull	1.37	98	-	-
EG Titanium	1.67	120	4.22	117
EGA Gregory	0.95	68	4.08	113
Genie	1.40	100	3.86	107
Jillaroo	1.03	74	2.80	77
Leverage	1.45	104	4.56	126
LRPB Flanker	0.87	62	3.90	108
LRPB Hellfire	0.82	58	2.77	77
LRPB Impala	0.63	45	4.21	116
LRPB Lancer	1.31	94	3.97	110
LRPB Major	1.34	96	-	-
LRPB Mustang	1.20	86	2.35	65
LRPB Oryx	0.88	63	3.64	101
LRPB Raider	1.74	124	4.17	115
LRPB Reliant	1.13	81	4.03	111
LRPB Scotch	1.12	80	3.63	100
LRPB Spitfire	0.82	59	2.51	69
LRPB Stealth	1.25	89	4.29	119
LRPB Tracer	1.53	109	3.20	88
QAL2000	-	-	4.30	119

Table 2: Main season wheat trial yield data.

Region	N/W		N/E	
Locality	Bullarah		Spring Ridge	
Trial ID	WMaA23BULL2		WMaA23SPRR2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean
Rebel 65	1.54	110	3.23	89
Rebel Rat	1.91	136	3.34	92
RockStar	1.01	72	3.25	90
Scepter	1.13	81	-	-
SEA Condamine	1.74	124	3.34	92
SEA Peel	0.92	66	2.85	79
SEA Stockman	1.45	103	3.32	92
SUN1081A	1.44	103	4.57	126
Sunblade CL Plus	1.15	83	3.94	109
Suncentral	1.94	139	4.10	113
Sunchaser	1.85	132	4.13	114
Sundancer	1.70	122	4.53	125
Sunmaster	1.84	132	3.96	109
Sunprime	1.49	107	3.67	101
Suntop	1.32	95	3.99	110
Vixen	0.77	55	2.03	56
Site Mean (t/ha)	1.40	100	3.62	100
CV (%)	11.62		5.87	
Probability	<0.001		<0.001	
LSD (t/ha)	0.28		0.37	
Sowing Date	02-Jun-2023		09-May-2023	
Trial Comments	WARNING: Trial is not released due to split and late emergence and unacceptable within plot and trial variability. Results to be published in the quarantine report. These trial results should not be used to make variety selection decisions.		WARNING: Trial is not released due to split and late emergence and unacceptable within plot and trial variability. Results to be published in the quarantine report. These trial results should not be used to make variety selection decisions.	

Table 3: Durum wheat trial yield data.

Region	N/E		S/W	
Locality	Spring Ridge		Yenda	
Trial ID	WMDA23SPRR2		WMDA23YEND2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean
Bitalli	1.74	72	2.19	114
Caparoi	3.23	133	1.86	96
DBA Bindaroi	2.44	100	1.82	94
DBA Lillaroi	1.72	71	1.41	73
DBA Mataroi	2.10	87	1.67	86
DBA Spes	2.62	108	2.00	104
DBA Vittaroi	1.51	62	1.77	92
DBA-Artemis	3.28	135	1.87	97
DBA-Aurora	2.45	101	2.14	111
Jandaroi	0.90	37	1.26	65
Patron	2.17	89	2.47	128
Westcourt	2.87	118	2.24	116
Site Mean (t/ha)	2.43	100	1.93	100
CV (%)	4.59		7.11	
Probability	<0.001		<0.001	
LSD (t/ha)	0.18		0.23	
Sowing Date	09-May-2023		19-May-2023	
Trial Comments	WARNING: Trial is not released due to split and late emergence and unacceptable within plot and trial variability. Results to be published in the quarantine report. These trial results should not be used to make variety selection decisions.		WARNING: This trial was impacted by sub soil constraints restricting plant growth and compromising grain yield and the 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.	