



GRDC

GRAINS RESEARCH
& DEVELOPMENT
CORPORATION

2024 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.

Cover: NVT Barley.

Photo: Ben O'Connor NVT Systems Manager

Quarantined trials list

Table 1: 2024 Queensland quarantined trials.

Site description	Crop	Trial code	Sowing date	Harvest date	Mean yield	CV value	P value	F value
Surat	Wheat	WEaA24SURA4	18-Apr	3-Oct	1.13	13.53	<0.001	9.83
Mungindi	Barley	BMaA24MUNG4	9-May	29-Oct	3.05	20.25	0.003	2.83
Brookstead	Chickpea	DMDA24BROO4	17-Jun	26-Nov	2.53	14.35	0.39	1.12

Values listed in red are outside the acceptable range: P value ≥ 0.2 and F value ≤ 1.0 .

2024 quarantine report Queensland wheat.

Table 2: Early season wheat trial yield data.

Region	SWQ	
Locality	Surat	
Trial ID	WEaA24SURA4	
Variety name	tonnes/ha	% site mean
Avoca	1.52	134
Brumby	1.03	90
Coolah	1.03	91
Coota	1.24	109
EGA Gregory	0.60	53
Genie	1.76	155
Intrigue	1.33	118
Jumbuck	1.38	122
Leverage	1.36	120
LRPB Flanker	0.67	59
LRPB Lancer	0.86	76
LRPB Nighthawk	1.09	96
LRPB Optimus	0.81	71
LRPB Raider	1.30	115
LRPB Stealth	0.83	74
Rebel 65	1.03	91
RockStar	0.91	80
Sundancer	0.98	86
Sunflex	1.28	113
Sunmax	1.09	96
Valiant CL Plus	1.40	123
Wallaroo	1.09	96
Site mean (t/ha)	1.13	100
CV (%)	13.53	
Probability	<0.001	
LSD (t/ha)	0.26	
Sowing date	18-Apr-2024	
Trial comments	WARNING: THIS TRIAL WAS AFFECTED BY FROST combined with environmental stress 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 Queensland barley.

Table 3: Barley main season trial yield data.

Region	SWQ	
Locality	Mungindi	
Trial ID	BMaA24MUNG4	
Variety name	tonnes/ha	% site mean
Alestar	3.26	107
Beast	3.06	100
Bigfoot CL	3.60	118
Bottler	2.29	75
Combat	2.35	77
Commander	2.26	74
Commodus CL	2.40	79
Compass	2.30	75
Cyclops	2.76	90
Fathom	2.58	84
La Trobe	2.63	86
Laperouse	3.33	109
Leabrook	2.96	97
Maximus CL	4.04	133
Minotaur	3.33	109
Neo CL	3.98	131
PegasusAX	2.83	93
RGT Planet	3.89	127
Rosalind	3.74	123
Spartacus CL	3.02	99
Spinnaker	3.76	123
Titan AX	2.24	73
Yeti	2.89	95
Zena CL	4.06	133
Site mean (t/ha)	3.05	100
CV (%)	20.25	
Probability	0.003	
LSD (t/ha)	1.02	
Sowing date	09-May-2024	

Trial comments

WARNING: This trial displayed a degree of variability as indicated by the high CV of 20% indicating high variability across the trial. These trial results should not be used to make variety selection decisions.

2024 quarantine report Queensland chickpea.

Table 4: Desi chickpea trial yield data.

Region	SEQ	
Locality	Brookstead	
Trial ID	DMDA24BRO04	
Variety name	tonnes/ha	% site mean
CBA Captain	2.13	84
Kyabra	2.52	100
PBA Boundary	2.50	99
PBA Drummond	2.52	100
PBA HatTrick	2.33	92
PBA Seamer	2.42	96
Site mean (t/ha)	2.53	100
CV (%)	14.35	
Probability	0.39	
LSD (t/ha)	0.57	
Sowing date	17-Jun-2024	
Trial comments	Abandoned: Delayed harvest with multiple weather events resulting in unacceptable levels of shattering when combined with lodging. This trial displayed a degree of variability as indicated by the high CV of 14% and p-value of 0.39 indicating low significance of variety effect. The trial results would be unreliable and not a true reflection of variety performance.	