



GRDC

GRAINS RESEARCH
& DEVELOPMENT
CORPORATION

2023 QUARANTINE REPORT



VICTORIA

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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 Victorian quarantined trials.

Site description	Crop	Trial code	Sowing date	Harvest date	Mean yield	CV value	P value	F value
Wunghnu	Canola	CHTA23WUNG3	2-May	16-Nov	2.05	6.26	<0.001	7.74
Birchip	Chickpea	DMDA23BIRC3	16-May	18-Dec	1.88	10.54	0.67	0.77
Horsham	Chickpea	DMKA23HORS3	29-Jun	29-Dec	1.45	7.80	0.33	1.21
Minimay	Faba Bean	FMaA23MINI3	16-May	23-Nov	3.45	7.71	0.21	1.53
Birchip	Lentil	QMaA23BIRC3	16-May	16-Nov	1.74	18.37	<0.001	53.19
Horsham	Lentil	QMaA23HORS3	29-Jun	15-Dec	1.00	12.03	<0.001	6.89
Walpeup	Lupin	LMNA23WALP3	27-Apr	15-Dec	2.20	15.18	0.82	0.53

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

2023 quarantine report Victorian canola.

Table 2: Medium-high rainfall triazine tolerant trial yield data.

Region	North East	
Locality	Wunghnu	
Trial ID	CHTA23WUNG3	
Variety name	tonnes/ha	% site mean
ATR Bonito	1.74	85
Bandit TT	1.88	92
DG BIDGEE TT	2.21	108
DG Torrens TT	1.76	86
Hyola Blazer TT	2.14	105
Hyola Defender CT	1.90	93
Hyola Enforcer CT	1.99	97
HyTTec Trident	2.05	100
HyTTec Trifecta	2.29	112
HyTTec Trophy	1.91	93
InVigor LT 4530P	1.87	92
InVigor T 4510	2.07	101
InVigor T 4511	2.24	110
InVigor T 6010	2.12	103
Monola 422TT	1.55	76
Monola H421TT	1.65	81
Monola H524TT	1.82	89
PY520TC	1.95	95
Renegade TT	2.10	103
RGT Baseline TT	2.25	110
RGT Capacity TT	2.21	108
SF Dynatron TT	2.02	99
Site mean (t/ha)	2.05	100
CV (%)	6.26	
Probability	<0.001	
LSD (t/ha)	0.22	
Sowing date	02-May-2023	
Trial comments	WARNING: Trial is not released due to waterlogging impacts. Results to be published in the quarantine report. These trial results should not be used to make variety selection decisions.	

2023 quarantine report Victorian chickpea.

Table 3: Desi chickpea trial yield data.

Region	Mallee	
Locality	Birchip	
Trial ID	DMDA23BIRC3	
Variety name	tonnes/ha	% site mean
CBA Captain	1.68	89
Neelam	1.81	96
PBA Maiden	1.97	105
PBA Slasher	1.67	89
PBA Striker	1.97	105
Site mean (t/ha)	1.88	100
CV (%)	10.54	
Probability	0.67	
LSD (t/ha)	0.39	
Sowing date	16-May-2023	
Trial comments	<p>WARNING: Trial has a high p-value (0.67) indicating low significance of variety effect. Trial is not released and will be available via the quarantine report. These trial results should not be used to make variety selection decisions.</p>	

Table 4: Kabuli chickpea trial yield data.

Region	Wimmera	
Locality	Horsham	
Trial ID	DMKA23HORS3	
Variety name	tonnes/ha	% site mean
Almaz	1.49	103
Genesis 090	1.34	92
Genesis Kalkee	1.40	96
PBA Magnus	1.40	96
PBA Monarch	1.38	95
PBA Royal	1.43	98
Site mean (t/ha)	1.45	100
CV (%)	7.80	
Probability	0.33	
LSD (t/ha)	0.19	
Sowing date	29-Jun-2023	
Trial comments	WARNING: Trial has a high p-value (0.33) indicating low significance of variety effect. Trial is not released and will be available via the quarantine report. These trial results should not be used to make variety selection decisions.	

2023 quarantine report Victorian faba bean.

Table 5: Faba bean trial yield data.

Region	Wimmera	
Locality	Minimay	
Trial ID	FMaA23MINI3	
Variety name	tonnes/ha	% site mean
Farah	3.65	106
Fiesta VF	3.53	102
Nura	3.19	93
PBA Amberley	3.57	104
PBA Bendoc	3.50	102
PBA Marne	3.44	100
PBA Rana	2.99	87
PBA Samira	3.48	101
PBA Zahra	3.67	107
Site mean (t/ha)	3.45	100
CV (%)	7.71	
Probability	0.21	
LSD (t/ha)	0.44	
Sowing date	16-May-2023	
Trial comments	WARNING: Trial has a high p-value (0.21) indicating low significance of variety effect. Trial is not released and will be available via the quarantine report. These trial results should not be used to make variety selection decisions.	

2023 quarantine report Victorian lentil.

Table 6: Lentil trial yield data.

Region	Mallee		Wimmera	
Locality	Birchip		Horsham	
Trial ID	QMaA23BIRC3		QMaA23HORS3	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean
ALB Terrier	2.05	118	0.91	90
GIA Leader	1.54	89	0.81	80
GIA Lightning	2.05	118	1.13	113
GIA Metro	1.06	61	0.52	52
GIA Sire	1.54	89	0.62	62
GIA Thunder	1.50	86	1.09	109
Nipper	1.28	74	0.77	77
PBA Ace	2.22	128	1.20	119
PBA Bolt	1.60	92	1.06	106
PBA Hallmark XT	1.85	107	0.97	97
PBA HighlandXT	1.78	103	0.93	93
PBA Hurricane XT	1.78	102	1.02	101
PBA Jumbo2	1.62	93	1.13	112
PBA Kelpie XT	1.54	88	1.11	111
Site mean (t/ha)	1.74	100	1.00	100
CV (%)	18.37		12.03	
Probability	<0.001		<0.001	
LSD (t/ha)	0.55		0.20	
Sowing date	16-May-2023		29-Jun-2023	
Trial comments	WARNING: Trial is not released due to chemical overspray and compaction related emergence issues. 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 harvesting issues related to severe weather conditions immediately prior to harvest. Results to be published in the quarantine report. These trial results should not be used to make variety selection decisions.	

2023 quarantine report Victorian lupin.

Table 7: Lupin trial yield data.

Region	Mallee	
Locality	Walpeup	
Trial ID	LMNA23WALP3	
Variety name	tonnes/ha	% site mean
Coyote	2.14	97
Jenabillup	2.29	104
Mandelup	2.04	92
PBA Barlock	2.08	95
PBA Bateman	2.31	105
PBA Gunyidi	2.36	107
PBA Jurien	2.11	96
Wonga	2.40	109
Site mean (t/ha)	2.20	100
CV (%)	15.18	
Probability	0.82	
LSD (t/ha)	0.55	
Sowing date	27-Apr-2023	
Trial comments	<p>WARNING: Trial has a high p-value (0.82) indicating low significance of variety effect. Trial is not released and will be available via the quarantine report. These trial results should not be used to make variety selection decisions.</p>	