

2022 QUARANTINE REPORT



WESTERN AUSTRALIA

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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 Western Australian quarantined trials.

Site description	Crop	Trial code	Sowing date	Harvest date	Mean yield	CV value	P value	F value
Ogilvie	Wheat	WMaA22OLGI6	4-May	12-Nov	4.55	3.55	<0.001	94.32
Dandaragan	Canola	CHGA22DAND6	26-Apr	28-Oct	2.38	3.85	<0.001	26.88
Gibson	Canola	CHGA22GIBS6	30-Apr	16-Nov	3.30	8.46	<0.001	3.10
Williams	Canola	CHGA22WILL6	12-May	2-Dec	2.57	5.77	<0.001	7.86
Gibson	Canola	CHIA22GIBS6	30-Apr	16-Nov	3.35	8.94	<0.001	10.16
Dandaragan	Canola	CHTA22DAND6	26-Apr	28-Oct	1.73	5.26	<0.001	21.39
Gibson	Canola	CHTA22GIBS6	30-Apr	16-Nov	3.30	8.46	<0.001	4.52
Williams	Canola	CHTA22WILL6	12-May	2-Dec	2.38	6.17	<0.001	7.99
Hyden	Canola	CLGA22HYDE6	17-Apr	1-Nov	2.40	5.26	<0.001	9.95
Merredin	Canola	CLIA22MERR6	4-May	27-Oct	2.74	6.36	0.35	1.11
Hyden	Canola	CLTA22HYDE6	17-Apr	1-Nov	2.48	5.00	<0.001	17.56
Merredin	Chickpea	DMDA22MERR6	25-May	15-Dec	0.66	19.64	0.40	1.16
Mullewa	Chickpea	DMDA22MULL6	18-May	27-Oct	1.56	10.21	0.61	0.85
Scaddan	Chickpea	DMDA22SCAD6	18-May	18-Dec	1.12	31.57	0.15	1.72
Scaddan	Field Pea	PMaA22SCAD6	18-May	11-Dec	1.30	15.43	<0.001	9.89
Mingenew	Lentil	QMaA22MING6	13-Jun	11-Nov	1.45	8.83	<0.001	69.55

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 Western Australian wheat.

Table 2: Main season wheat trial yield data.

Region	Agzone1	
Locality	Ogilvie	
Trial ID	WMaA22OLGI6	
Variety name	tonnes/ha	% site mean
Ballista	4.77	105
Borlaug 100	3.84	84
Brumby	5.37	118
Calibre	4.38	96
Catapult	5.17	114
Chief CL Plus	4.35	96
Cutlass	5.17	114
Denison	6.29	138
Devil	4.82	106
Emu Rock	3.28	72
Hammer CL Plus	4.72	104
Kinsei	5.28	116
LRPB Anvil CL Plus	2.49	55
LRPB Avenger	2.48	55
LRPB Cobra	4.62	101
LRPB Havoc	4.16	91
LRPB Trojan	4.99	110
Mace	4.40	97
Magenta	4.69	103
Ninja	5.02	110
Razor CL Plus	3.27	72

Table 2: Main season wheat trial yield data.

Region	Agzone1	
Locality	Ogilvie	
Trial ID	WMaA22OLGI6	
Variety name	tonnes/ha	% site mean
RockStar	5.56	122
Scepter	4.78	105
Sheriff CL Plus	4.91	108
Sting	3.84	84
Supreme	3.91	86
Tungsten	4.76	105
Valiant CL Plus	4.93	108
Vixen	3.12	69
Yitpi	4.92	108
Zen	4.92	108
Site mean (t/ha)	4.55	100
CV (%)	3.55	
Probability	<0.001	
LSD (t/ha)	0.28	
Sowing date	04-May-2022	
Trial comments	WARNING: Trial is not released due to late and split emergence. Results to be published in the quarantine report. These trial results should not be used to make variety selection decisions.	

2022 quarantine report Western Australian canola.

Table 3: Medium-high rainfall glyphosate tolerant trial yield data.

Region	Agzone2		Agzone6		Agzone3	
Locality	Dandaragan		Gibson		Williams	
Trial ID	CHGA22DAND6		CHGA22GIBS6		CHGA22WILL6	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
DG Bindo TF	1.92	81	2.78	84	2.31	90
DG Hotham TF	-	-	3.20	97	2.52	98
DG Lofty TF	1.99	84	-	-	-	-
Hyola 410XX	2.27	95	-	-	-	-
Hyola Battalion XC	2.17	91	-	-	-	-
Hyola Garrison XC	2.65	111	2.94	89	-	-
Hyola Regiment XC	-	-	3.60	109	2.78	108
InVigor R 4022P	2.53	106	3.25	99	2.24	87
InVigor R 4520P	2.47	104	3.16	96	2.63	103
Nuseed Condor TF	2.66	112	2.86	87	3.08	120
Nuseed Eagle TF	2.42	102	3.29	100	2.65	103
Nuseed Emu TF	1.89	80	-	-	-	-
Nuseed Hunter TF	2.51	106	3.44	104	2.73	106
Nuseed Raptor TF	2.56	108	3.03	92	2.65	103
Pioneer 44Y27 (RR)	2.52	106	-	-	2.47	96
Pioneer 44Y30 RR	2.37	100	3.46	105	2.43	95
Pioneer 44Y94 CL	-	-	-	-	-	-
Pioneer 45Y28 RR	2.44	102	3.49	106	2.59	101
Site mean (t/ha)	2.38	100	3.30	100	2.57	100
CV (%)	3.85		8.46		5.77	
Probability	<0.001		<0.001		<0.001	
LSD (t/ha)	0.16		0.45		0.24	
Sowing date	26-Apr-2022		30-Apr-2022		12-May-2022	
Trial comments	WARNING: Trial is not released due to excessive bird damage. 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 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 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 4: Medium-high rainfall triazine tolerant trial yield data.

Region	Agzone2		Agzone6		Agzone3	
Locality	Dandaragan		Gibson		Williams	
Trial ID	CHTA22DAND6		CHTA22GIBS6		CHTA22WILL6	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
AFP Cutubury	1.42	82	-	-	2.14	90
ATR Bonito	1.18	68	2.55	77	2.08	87
ATR Swordfish	1.26	73	2.66	81	2.03	85
DG BIDGEE TT	1.53	88	2.98	91	2.29	96
DG MURRAY TT	-	-	3.36	102	2.02	85
DG Torrens TT	1.40	81	3.54	108	2.16	91
Hyola Blazer TT	1.69	98	3.59	109	2.49	105
Hyola Enforcer CT	1.85	107	-	-	-	-
HyTTec Trident	1.82	105	-	-	-	-
HyTTec Trifecta	2.09	121	3.64	111	2.70	113
HyTTec Trophy	1.92	111	3.54	108	2.54	107
HyTTec Velocity	1.83	106	-	-	-	-
InVigor LT 4530P	1.74	100	3.47	105	2.37	100
InVigor T 4510	1.90	109	3.40	103	2.56	108
InVigor T 4511	1.83	106	2.96	90	2.36	99
InVigor T 6010	-	-	3.36	102	2.45	103
Monola 422TT	-	-	-	-	1.86	78
PY520TC	-	-	3.71	112	2.58	108
Renegade TT	1.53	88	3.31	100	2.29	97
RGT Baseline TT	1.95	112	3.24	98	2.46	104
RGT Capacity TT	1.71	98	3.18	97	2.30	97
SF Dynatron TT	2.08	120	3.45	105	2.77	116
SF Spark TT	1.66	96	-	-	-	-
Site mean (t/ha)	1.73	100	3.30	100	2.38	100
CV (%)	5.26		8.46		6.17	
Probability	<0.001		<0.001		<0.001	
LSD (t/ha)	0.16		0.45		0.24	

Sowing date	26-Apr-2022	30-Apr-2022	12-May-2022
Trial comments	WARNING: Trial is not released due to excessive bird damage. 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 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 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 5: Low-medium rainfall glyphosate tolerant trial yield data

Region	Agzone5	
Locality	Hyden	
Trial ID	CLGA22HYDE6	
Variety name	tonnes/ha	% site mean
DG Bindo TF	2.21	92
DG Lofty TF	2.21	92
Hyola 410XX	2.03	84
Hyola Battalion XC	2.50	104
Hyola Garrison XC	2.45	102
InVigor R 4022P	2.45	102
InVigor R 4520P	2.25	94
Nuseed Emu TF	2.37	98
Nuseed Hunter TF	2.71	113
Pioneer 44Y27 (RR)	2.72	113
Pioneer 44Y30 RR	2.31	96
Site mean (t/ha)	2.40	100
CV (%)	5.26	
Probability	<0.001	
LSD (t/ha)	0.21	
Sowing date	17-Apr-2022	
Trial comments	<p>WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY CHEMICAL DRIFT and is not released. Results will be unreliable and not a true reflection of variety performance or ranking. The results will be published in the quarantine report. These trial results should not be used to make variety selection decisions.</p>	

Table 6: Low-medium rainfall imidazoline tolerant trial yield data.

Region	Agzone4	
Locality	Merredin	
Trial ID	CLIA22MERR6	
Variety name	tonnes/ha	% site mean
Hyola Equinox CL	2.86	104
Pioneer 43Y92 (CL)	2.79	102
Pioneer 44Y94 CL	2.74	100
Site mean (t/ha)	2.74	100
CV (%)	6.36	
Probability	0.35	
LSD (t/ha)	0.28	

Sowing date 04-May-2022

Trial comments

WARNING: Trial has a high p-value (0.35) 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.

Table 7: Low-medium rainfall triazine tolerant trial yield data.

Region	Agzone5	
Locality	Hyden	
Trial ID	CLTA22HYDE6	
Variety name	tonnes/ha	% site mean
AFP Cutubury	2.11	85
ATR Bluefin	2.05	83
ATR Bonito	2.36	95
ATR Swordfish	2.15	87
Bandit TT	2.32	94
DG BIDGEE TT	1.98	80
Hyola Blazer TT	2.44	99
Hyola Enforcer CT	2.47	100
HyTTec Trident	3.05	123
HyTTec Trophy	2.78	112
HyTTec Velocity	2.75	111
InVigor LT 4530P	2.74	111
InVigor T 4510	2.86	115
InVigor T 4511	2.60	105
Renegade TT	2.32	94
RGT Capacity TT	2.54	102
SF Dynatron TT	2.70	109
SF Spark TT	2.55	103
Site mean (t/ha)	2.48	100
CV (%)	5.00	
Probability	<0.001	
LSD (t/ha)	0.21	
Sowing date	17-Apr-2022	
Trial comments	WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY CHEMICAL DRIFT and is not released. Results will be unreliable and not a true reflection of variety performance or ranking. The results will be published in the quarantine report. These trial results should not be used to make variety selection decisions.	

2022 quarantine report Western Australian chickpea.

Table 8: Desi chickpea trial yield data.

Region	Agzone4		Agzone4		Agzone5	
Locality	Merredin		Mullewa		Scaddan	
Trial ID	DMDA22MERR6		DMDA22MULL6		DMDA22SCAD6	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
CBA Captain	0.72	109	1.57	100	0.87	77
Genesis 090	0.67	101	1.43	92	1.25	111
Genesis 836	0.61	92	1.56	99	1.11	98
Neelam	0.66	101	1.60	102	0.88	78
PBA Maiden	0.60	91	1.49	96	0.93	82
PBA Seamer	0.64	97	1.47	94	0.96	86
PBA Slasher	0.60	92	1.49	95	1.47	131
PBA Striker	0.65	98	1.63	104	0.88	79
Site mean (t/ha)	0.66	100	1.56	100	1.12	100
CV (%)	19.64		10.21		31.57	
Probability	0.40		0.61		0.15	
LSD (t/ha)	0.21		0.26		0.57	
Sowing date	25-May-2022		18-May-2022		18-May-2022	
Trial comments	WARNING: Trial has a high p-value (0.40) 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.		WARNING: Trial has a high P value (0.61) and high F value (0.84) 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.		WARNING: This trial displayed a degree of variability as indicated by the high CV of 31.57% 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 Western Australian field pea.

Table 9: Field pea trial yield data.		
Region	Agzone5	
Locality	Scaddan	
Trial ID	PMaA22SCAD6	
Variety name	tonnes/ha	% site mean
GIA Kastar	1.02	78
GIA Ourstar	0.97	75
Kaspa	1.19	91
PBA Butler	1.97	152
PBA Gonyah	1.40	107
PBA Oura	1.01	78
PBA Taylor	1.15	89
PBA Twilight	0.84	65
PBA Wharton	1.20	92
Site mean (t/ha)	1.30	100
CV (%)	15.43	
Probability	<0.001	
LSD (t/ha)	0.32	
Sowing date	18-May-2022	
Trial comments	WARNING: This trial displayed a degree of variability as indicated by the high CV of 15.43%, 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 Western Australian lentil.

Table 10: Lentil trial yield data.		
Region	Agzone1	
Locality	Mingenew	
Trial ID	QMaA22MING6	
Variety name	tonnes/ha	% site mean
GIA Leader	0.84	58
GIA Lightning	1.85	128
GIA Metro	1.40	97
GIA Sire	1.25	86
GIA Thunder	2.03	140
Nipper	1.48	102
PBA Ace	2.01	139
PBA Blitz	0.96	66
PBA Bolt	0.62	43
PBA Hallmark XT	0.68	47
PBA HighlandXT	0.65	45
PBA Hurricane XT	0.87	60
PBA Jumbo2	1.01	70
PBA Kelpie XT	2.48	172
Site mean (t/ha)	1.45	100
CV (%)	8.83	
Probability	<0.001	
LSD (t/ha)	0.21	
Sowing date	13-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.