

2024 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.

Cover: NVT Barley.

Photo: Ben O'Connor NVT Systems Manager





Quarantined trials list

Table 1:	2024 V	Vestern Aust	ralian q	uarantin	ed trial	S.		
Site description	Crop	Trial code	Sowing date	Harvest date	Mean yield	CV value	P value	F value
Miling	Barley	BMaA24MILI6	1-Jun	14-Nov	1.87	13.79	<0.001	15.34
Beacon	Oat	OMaA24BEAC6	2-Jun	6-Dec	1.32	11.31	<0.001	173.71
Bolgart	Canola	CHGA24BOLG6	3-May	22-Nov	2.60	7.48	<0.001	5.91
Kendenup	Canola	CHGA24KEND6	8-May	2-Dec	2.76	6.20	<0.001	7.62
Gibson	Canola	CHGA24GIBS6	2-May	5-Nov	2.57	4.48	<0.001	4.68
Bolgart	Canola	CHIA24BOLG6	3-May	23-Nov	2.48	8.00	<0.001	11.30
Gibson	Canola	CHIA24GIBS6	2-May	5-Nov	2.33	4.97	0.03	2.50
Bolgart	Canola	CHTA24BOLG6	3-May	23-Nov	1.94	9.98	<0.001	8.07
Kendenup	Canola	CHTA24KEND6	8-May	1-Dec	2.44	6.83	<0.001	8.61
Cascade	Canola	CHTA24CASC6	30-Apr	30-Oct	2.37	7.01	<0.001	4.09
Gibson	Canola	CHTA24GIBS6	2-May	5-Nov	2.09	5.49	<0.001	4.33
Dalwallinu	Canola	CLGA24DALW6	1-Jun	9-Nov	1.25	4.81	<0.001	24.10
Mt. Madden	Canola	CLGA24MADD6	7-May	29-Oct	3.26	3.74	<0.001	4.42
Dalwallinu	Canola	CLTA24DALW6	1-Jun	9-Nov	1.45	4.10	<0.001	21.11
Mt. Madden	Canola	CLTA24MADD6	7-May	29-Oct	2.48	4.82	<0.001	12.34
Corrigin	Lupin	LMNA24CORR6	9-May	10-Nov	1.77	8.81	<0.001	537.61
Cunderdin	Lupin	LMNA24CUND6	30-May	5-Dec	1.99	8.55	0.004	4.75

Values listed in red are outside the acceptable range: P value \geq 0.2 and F value \leq 1.0.



2024 quarantine report Western Australian barley.

Region	Agzon	e2
Locality	Milin	g
Trial ID	BMaA24N	MILI6
Variety name	tonnes/ha	% site mean
Alestar	1.07	57
Beast	2.47	132
Bigfoot CL	2.74	146
Buff	2.38	127
Combat	1.67	89
Commodus CL	2.09	111
Compass	2.23	119
Cyclops	2.31	123
Fathom	1.83	98
Granite CL	2.08	111
La Trobe	2.00	107
Laperouse	2.15	115
Leabrook	2.21	118
Litmus	1.91	102
Maximus CL	2.57	137
Minotaur	1.65	88
Neo CL	1.42	76
PegasusAX	2.39	128
RGT Atlantis	1.11	59
RGT Planet	0.81	43
Rosalind	2.94	157
Scope CL	1.35	72
Spartacus CL	2.57	137
Spinnaker	0.95	51
Titan AX	1.59	85
Zena CL	0.94	50





Region	Agzone	Agzone2				
Locality	Miling	Miling				
Trial ID	BMaA24N	11L16				
Variety name	tonnes/ha	% site mean				
Site mean (t/ha)	1.87	100				
CV (%)	13.79					
Probability	<0.001					
LSD (t/ha)	0.44					
Sowing date	01-Jun-20	024				
Trial comments	WARNING: THIS TRIAL WAS AFFECTED BY DROUGHT and HEAT STRESS and is not released. Drought and heat 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 Western Australian oat.

Table 3: Oat trial yield data.						
Region	Agzone	4				
Locality	Beacor	1				
Trial ID	OMaA24BI	EAC6				
Variety name	tonnes/ha	% site mean				
Archer	1.18	89				
Bannister	1.49	113				
Bilby	1.95	147				
Carrolup	1.23	93				
Durack	1.42	107				
Goldie	1.47	112				
Kingbale	0.65	49				
Koala	1.19	90				
Kojonup	1.23	93				
Kultarr	1.25	94				
Minnie	1.56	118				
Wallaby	0.89	67				
Wandering	1.76	133				
Williams	1.22	92				
Yallara	0.97	74				
Site mean (t/ha)	1.32	100				
CV (%)	11.31					
Probability	<0.001					
LSD (t/ha)	0.25					
Sowing date	02-Jun-20	02-Jun-2024				
Trial comments	SEVERE LODGING and is no will affect varieties differe will be unreliable and not variety performance or rai	WARNING: THIS TRIAL WAS AFFECTED BY SEVERE LODGING and is not released. Lodging 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 Western Australian canola.

Region	egion Agzone2 Ag		Agzo	ne3	Agzone6		
Locality	Bolg	art	Kende	enup	Gibson		
Trial ID	CHGA24	BOLG6	CHGA24	KEND6	CHGA24	GIBS6	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	
DG Buller G	2.57	99	2.49	90	2.55	99	
DG Hotham TF	1.93	74	2.37	86	2.60	101	
Hyola Regiment XC	2.76	106	3.04	110	2.56	100	
InVigor LR 4540P	3.07	118	3.06	111	2.82	110	
InVigor LR 5040P	3.03	116	3.15	114	2.66	104	
InVigor R 4520P	2.68	103	2.90	105	2.53	98	
Nuseed Eagle TF	2.61	100	2.55	92	2.86	112	
Nuseed Hunter TF	2.67	103	3.07	111	2.59	101	
Nuseed Raptor TF	2.48	95	2.68	97	2.59	101	
Pioneer 44Y27 (RR)	2.63	101	2.94	106	-	-	
Pioneer PY323G	2.42	93	-	-	-	-	
Pioneer PY422G	2.24	86	2.73	99	2.41	94	
Pioneer PY424GC	2.48	95	2.59	94	-	-	
Pioneer PY428R	2.64	101	2.52	91	-	-	
Pioneer PY525G	-	-	2.39	86	2.36	92	
Site mean (t/ha)	2.60	100	2.76	100	2.57	100	

Sowing date 03-May-2024 08-May-2024 03

6.20

< 0.001

0.29

Trial comments

CV (%)

Probability

LSD (t/ha)

AFFECTED BY DISEASE AND CHEMICAL DAMAGE 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. These trial results should not be used to make variety selection decisions.

WARNING: THIS TRIAL WAS

7.48

< 0.001

0.31

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. These trial results should not be used to make variety selection decisions.

WARNING: Trial is not to be released due to split 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.

4.48

< 0.001

0.23





Table 5: Medium-high rainfall imidazolinone tolerant trial yield data.						
Region	Agzor	ne2	Agzoı	ne6		
Locality	Bolga	art	Gibs	on		
Trial ID	CHIA24B	OLG6	CHIA24	GIBS6		
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean		
Hyola Continuum CL	2.60	105	2.33	100		
Hyola Solstice CL	2.86	115	2.33	100		
Pioneer 43Y92 (CL)	2.42	98	2.28	98		
Pioneer 44Y94 CL	2.23	90	2.53	109		
Pioneer 45Y95 (CL)	1.17	47	2.39	103		
Pioneer PY327C	2.60	105	-	-		
Pioneer PY421C	2.94	118	2.57	110		
Site mean (t/ha)	2.48	100	2.33	100		
CV (%)	8.00		4.97			
Probability	<0.001		0.03			
LSD (t/ha)	0.33		0.23			
Sowing date	03-May-2024 02-May-2024			-2024		
Trial comments	WARNING: THIS TRIAL WAS AFFECTED BY DISEASE AND CHEMICAL DAMAGE 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. These trial results should not be used to make variety selection decisions. WARNING: Trial is not to be due to split emergence an unacceptable within plot a variability. Results to be p quarantine report. These should not be used to make variety selection decisions.			te and blot and trial be published in the ese trial results		





Table 6: Medium-high rainfall triazine tolerant trial yield data.

Region	Agzo	ne2	Agzo	ne3	Agzo	ne5	Agzo	ne6
Locality	Bolg	art	Kendenup		Cascade		Gibson	
Trial ID	CHTA24	BOLG6	CHTA24	KEND6	CHTA24CASC6		CHTA24GIBS6	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
ATR Bluefin	-	-	-	-	1.80	76	-	-
ATR Bonito	1.66	85	1.89	77	2.04	86	1.85	89
ATR Swordfish	1.25	64	2.22	91	2.14	90	1.83	88
DG Avon TT	1.38	71	-	-	-	-	-	-
DG BIDGEE TT	1.52	79	1.86	76	2.03	86	1.85	89
DG Torrens TT	1.80	93	1.98	81	2.29	96	1.83	88
Hyola Blazer TT	2.25	116	2.85	117	2.48	105	2.35	113
Hyola Defender CT	1.97	102	2.48	102	2.35	99	2.03	97
HyTTec Trident	-	-	-	-	2.80	118	-	-
HyTTec Trifecta	2.37	122	2.59	106	2.81	119	2.51	120
HyTTec Trophy	2.30	119	2.85	117	2.42	102	2.21	106
HyTTec Velocity	-	-	-	-	2.41	102	-	-
InVigor LT 4530P	1.97	102	2.62	107	2.43	103	2.19	105
InVigor T 4511	1.87	96	2.33	96	2.45	103	2.11	101
Nuseed Griffon TTI	1.93	99	2.43	100	2.31	97	2.16	104
Pioneer PY429T	-	-	2.70	111	-	-	2.29	110
Pioneer PY520TC	2.19	113	2.58	106	2.40	101	2.06	99
Renegade TT	1.88	97	2.20	90	2.28	96	1.95	93
RGT Baseline TT	2.13	110	2.35	96	2.47	104	2.01	96
RGT Capacity TT	2.21	114	2.45	101	2.34	99	2.10	101
SF Dynatron TT	2.07	107	2.56	105	2.55	108	2.32	111
SF Spark TT	2.18	113	-	-	-	-	-	-

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Region	Agzor	ne2	Agzoi	ne3	Agzo	ne5	Agzo	ne6
Locality	Bolga		Kende		Casc		Gibs	
Trial ID	CHTA24E	CHTA24BOLG6		KEND6	CHTA24	CASC6	CHTA24	IGIBS6
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Site mean (t/ha)	1.94	100	2.44	100	2.37	100	2.09	100
CV (%)	9.98		6.83		7.01		5.49	
Probability	<0.001		<0.001		<0.001		<0.001	
LSD (t/ha)	0.31		0.28		0.28		0.23	
Sowing date	03-May-	-2024	08-May	-2024	30-Apr	-2024	02-May	-2024
Trial comments	WARNING: THIS TRIAL WAS AFFECTED BY CHEMICAL DAMAGE and is not released. Chemical Damage 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.		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. These trial results should not be used to make variety selection decisions.		WARNING: Trial is due to unacceptal and trial variability results would be unot a true reflection performance. Respublished in the query report. These trial not be used to masselection decision	ole within plot y. The trial unreliable and on of variety ults to be uarantine results should uke variety	WARNING: Trial is released due to spand unacceptable trial variability. Republished in the quelon report. These trial not be used to maselection decision	plit emergence within plot and sults to be uarantine results should ake variety





Table 7: Low-me	dium rainfall gly	phosate tole	rant trial yield	data.	
Region	Agzoi	ne2	Agzone5		
Locality	Dalwa	llinu	Mt. Ma	ıdden	
Trial ID	CLGA24E	DALW6	CLGA24MADD6		
Variety name	tonnes/ha	% site mean	tonnes/ha % site me		
DG Buller G	1.14	91	3.08	94	
Hyola Regiment XC	1.41	112	3.38	103	
InVigor LR 3540P	1.36	108	3.28	101	
InVigor LR 4540P	1.51	121	3.49	107	
InVigor R 4520P	1.32	105	3.24	99	
Nuseed Emu TF	1.42	113	3.22	99	
Nuseed Hunter TF	1.38	110	3.37	103	
Nuseed Raptor TF	1.23	98	-	-	
Pioneer 44Y27 (RR)	1.20	96	3.04	93	
Pioneer PY323G	1.05	84	3.24	99	
Pioneer PY422G	0.91	73	-	-	
Pioneer PY424GC	1.13	90	3.11	95	
Pioneer PY428R	1.15	91	3.25	99	
Site mean (t/ha)	1.25	100	3.26	100	
CV (%)	4.81		3.74		
Probability	<0.001		<0.001		
LSD (t/ha)	0.10		0.20		
Sowing date	01-Jun-2024		07-May-2024		
Trial comments	WARNING: THIS TRIA AFFECTED BY DISEASE PRESSURE and is not rand weed competition varieties differently as be unreliable and not variety performance of trial results should no variety selection decis	AND WEED released. Disease in will affect affect results will a true reflection of or ranking. These is to make	WARNING: Trial is not split emergence and within plot and trial v be published in the quality these trial results shownake variety selection	unacceptable ariability. Results to uarantine report. ould not be used to	





Region	Agzo	ne2	Agzone5		
Locality	Dalwa	llinu	Mt. Ma	ıdden	
Trial ID	CLTA24I	DALW6	CLTA24N	24MADD6	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	
ATR Bluefin	1.19	82	2.10	85	
ATR Bonito	1.28	88	2.21	89	
ATR Swordfish	1.16	80	1.95	79	
Bandit TT	1.31	90	2.45	99	
DG Avon TT	1.14	78	2.57	104	
DG BIDGEE TT	1.39	95	2.19	88	
DG Torrens TT	1.32	91	2.25	90	
Hyola Blazer TT	1.60	110	2.55	103	
Hyola Defender CT	1.52	105	2.28	92	
HyTTec Trident	1.71	118	2.88	116	
HyTTec Trophy	1.72	118	2.73	110	
HyTTec Velocity	1.59	109	2.73	110	
InVigor LT 4530P	1.63	112	2.65	107	
InVigor T 4511	1.44	99	2.48	100	
Nuseed Griffon TTI	1.46	101	2.36	95	
Renegade TT	1.28	88	2.47	100	
RGT Baseline TT	1.55	106	-	-	
RGT Capacity TT	1.47	101	2.60	105	
SF Dynatron TT	1.47	101	2.74	110	
SF Spark TT	1.42	98	2.52	101	
Site mean (t/ha)	1.45	100	2.48	100	
CV (%)	4.10		4.82		
Probability	<0.001		<0.001		
LSD (t/ha)	0.10		0.20		
Sowing date	01-Jun-	2024	07-May	-2024	
Trial comments	WARNING: THIS TRIA AFFECTED BY DISEASI PRESSURE and is not and weed competitio varieties differently a be unreliable and not variety performance trial results should no	E AND WEED released. Disease n will affect nd trial results will a true reflection of or ranking. These			



2024 quarantine report Western Australian lupin.

Region	Agzone2 Corrigin LMNA24CORR6		Agzone2 Cunderdin LMNA24CUND6	
Locality				
Trial ID				
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean
Coromup	2.38	134	1.83	92
Coyote	1.29	73	2.02	101
Gidgee	1.93	109	1.87	94
Lawler	1.51	85	1.43	72
Mandelup	1.08	61	1.89	95
PBA Barlock	2.01	113	2.28	115
PBA Bateman	1.27	72	2.02	102
PBA Gunyidi	2.48	140	2.08	105
PBA Jurien	2.42	136	2.30	115
PBA Leeman	2.24	126	1.86	94
Rosemont	1.83	103	2.18	110
Wonga	2.29	129	2.05	103
Site mean (t/ha)	1.77	100	1.99	100
CV (%)	8.81		8.55	
Probability	<0.001		0.004	
LSD (t/ha)	0.25		0.28	
Sowing date	09-May-2024		30-May-2024	
Trial comments	WARNING: THIS TRIAL WAS AFFECTED BY CHEMICAL SPRAY DRIFT 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. These trial results should not be used to make variety selection decisions.		WARNING: THIS TRIAL WAS AFFECTED BY CHEMICAL DAMAGE and is not released. Chemical damage 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.	