



GRDC

GRAINS RESEARCH
& DEVELOPMENT
CORPORATION

2024 QUARANTINE REPORT



NEW SOUTH WALES

Contents

Important information for quarantined trials	3
Quarantined trials list	4
Table 1: 2024 New South Wales quarantined trials.	4
2024 quarantine report New South Wales wheat.	5
Table 2: North West main season wheat trial yield data	5
Table 3: South East main season wheat trial yield data.	7
Table 4: South West main season wheat trial yield data.	11
Table 5: Northern early season wheat trial yield data.	15
Table 6: South East early season wheat trial yield data	17
Table 7: South West early season wheat trial yield data.	19
Table 8: Long season wheat trial yield data	21
2024 quarantine report New South Wales barley.	23
Table 9: Barley main season trial yield data.	23
2024 quarantine report New South Wales canola.	26
Table 10: Medium-high rainfall glyphosate tolerant trial yield data.	26
Table 11: Medium-high rainfall imidazolinone tolerant trial yield data.	27
Table 12: Medium-high rainfall triazine tolerant trial yield data.	28
2024 quarantine report New South Wales chickpea.	29
Table 13: Desi chickpea trial yield data.	29

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 New South Wales quarantined trials.

Site description	Crop	Trial code	Sowing date	Harvest date	Mean yield	CV value	P value	F value
Goonumbla	Wheat	WMaA24GOON2	16-May	13-Dec	4.44	7.14	<0.001	9.14
Canowindra	Wheat	WMaA24CANO2	16-May	14-Dec	5.04	6.24	<0.001	418.24
Galong	Wheat	WMaA24GALO2	13-May	17-Dec	5.60	2.65	<0.001	2707.57
Temora	Wheat	WMaA24TEMO2	6-May	25-Nov	5.34	17.48	0.320	71.88
Wagga Wagga	Wheat	WMaA24WARI2	6-May	12-Dec	4.33	4.47	<0.001	5538.64
Lake Cargelligo	Wheat	WMaA24CARG2	21-May	5-Dec	5.14	9.04	<0.001	3.48
Lake Cowal	Wheat	WMaA24LCOW2	20-May	12-Dec	4.02	7.06	<0.001	8.39
Lockhart	Wheat	WMaA24LOCK2	9-May	10-Dec	1.57	7.41	<0.001	83.71
Oaklands	Wheat	WMaA24OAKL2	6-May	18-Dec	1.79	8.58	<0.001	1042.06
Spring Ridge	Wheat	WEaA24SPRR2	9-May	9-Dec	6.34	3.20	<0.001	17.65
Goonumbla	Wheat	WEaA24GOON2	9-May	13-Dec	4.46	8.63	<0.001	7.64
Canowindra	Wheat	WEaA24CANO2	17-Apr	14-Dec	3.75	6.87	<0.001	3517.22
Galong	Wheat	WEaA24GALO2	27-Apr	17-Dec	5.32	3.65	<0.001	2169.93
Wagga Wagga	Wheat	WEaA24WARI2	15-Apr	11-Dec	2.36	10.91	<0.001	5970.79
Lockhart	Wheat	WEaA24LOCK2	30-Apr	9-Dec	1.43	11.93	<0.001	60.75
Oaklands	Wheat	WEaA24OAKL2	22-Apr	17-Dec	1.47	9.58	<0.001	571.88
Galong	Wheat	WLoA24GALO2	12-Apr	16-Dec	4.85	5.19	<0.001	2123.26
Gerogery	Wheat	WLoA24GERO2	12-Apr	17-Dec	5.31	6.34	<0.001	1114.08
Millthorpe	Wheat	WLoA24MLTH2	16-Apr	16-Dec	6.62	11.74	<0.001	131.83
Woodstock	Wheat	WLoA24WOOD2	15-Apr	16-Dec	6.50	5.18	<0.001	2282.95
Goonumbla	Barley	BMaA24GOON2	16-May	13-Dec	4.63	7.24	<0.001	302.86
Deniliquin	Barley	BMaA24DENI2	15-May	13-Dec	3.66	13.03	<0.001	219.24
Lake Cowal	Barley	BMaA24LCOW2	20-May	12-Dec	4.51	7.39	<0.001	73.36
Lockhart	Barley	BMaA24LOCK2	9-May	10-Dec	3.83	5.65	<0.001	368.10
Oaklands	Barley	BMaA24OAKL2	6-May	18-Dec	2.81	8.35	<0.001	8.34
Temora	Canola	CHGA24TEMO2	19-Apr	10-Nov	0.91	8.22	<0.001	24.24
Temora	Canola	CHIA24TEMO2	19-Apr	10-Nov	0.71	10.88	<0.001	43.67
Temora	Canola	CHTA24TEMO2	19-Apr	10-Nov	0.82	8.98	<0.001	20.82
Bellata	Chickpea	DMDA24BELL2	13-Jun	6-Dec	1.30	17.51	0.002	7.12

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

2024 quarantine report New South Wales wheat.

Table 2: North West main season wheat trial yield data

Locality	Goonumbla	
Trial ID	WMaA24GOON2	
Variety name	tonnes/ha	% site mean
Beckom	4.79	108
Boree	3.91	88
Borlaug 100	3.63	82
Brumby	4.50	101
Calibre	4.53	102
Catapult	3.90	88
Condo	3.72	84
Coolah	5.23	118
Coota	4.08	92
EG Titanium	4.38	99
EGA Gregory	4.82	109
Genie	3.88	87
Intrigue	5.14	116
Ironbark	4.57	103
Jillaroo	4.03	91
Jumbuck	4.97	112
Lancelin	4.16	94
Leverage	5.96	134
LRPB Flanker	4.69	106
LRPB Hellfire	3.84	87
LRPB Impala	4.79	108
LRPB Lancer	5.01	113
LRPB Major	4.63	104
LRPB Matador	4.42	100
LRPB Mustang	3.88	87
LRPB Optimus	5.49	124
LRPB Oryx	4.46	100
LRPB Raider	4.92	111
LRPB Reliant	4.57	103
LRPB Scotch	4.91	111
LRPB Spitfire	3.74	84

Table 2: North West main season wheat trial yield data

Locality	Goonumbla	
Trial ID	WMaA24GOON2	
Variety name	tonnes/ha	% site mean
LRPB Stealth	4.76	107
LRPB Tracer	4.42	100
Rebel 65	4.55	103
Rebel Rat	3.63	82
RGT Healy	4.50	101
RockStar	4.65	105
Scepter	4.26	96
SEA Condamine	4.46	101
Shotgun	4.70	106
Stockman	3.41	77
Sunblade CL Plus	4.27	96
Suncentral	4.53	102
Sunchaser	3.84	86
Sundancer	5.55	125
Sunmaster	4.95	111
Sunprime	4.26	96
Suntop	4.62	104
Vixen	4.00	90
Site mean (t/ha)	4.44	100
CV (%)	7.14	
Probability	<0.001	
LSD (t/ha)	0.53	

Sowing date	16-May-2024
-------------	-------------

Trial comments

WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST 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.

DO NOT REPRODUCE, REPLICATE OR COPY

Table 3: South East main season wheat trial yield data.

Locality	Canowindra		Galong		Temora		Wagga Wagga	
Trial ID	WMaA24CANO2		WMaA24GALO2		WMaA24TEMO2		WMaA24WARI2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Ascot	5.15	102	5.04	90	4.89	92	3.66	85
Ballista	4.75	94	6.39	114	5.92	111	3.97	92
Beckom	5.07	100	5.71	102	5.05	95	5.07	117
Boree	4.10	81	6.47	116	6.10	114	5.22	121
Brumby	5.55	110	6.76	121	6.07	114	4.91	113
Calibre	5.40	107	5.93	106	5.68	106	2.97	69
Catapult	4.63	92	6.33	113	5.21	98	5.27	122
Chief CL Plus	3.89	77	5.70	102	4.93	92	3.92	91
Condo	5.60	111	4.06	73	4.90	92	2.12	49
Coolah	5.33	106	5.95	106	5.97	112	5.17	120
Coota	4.83	96	5.75	103	4.82	90	5.46	126
EG Jet	5.25	104	5.23	94	4.96	93	4.65	107
EG Titanium	4.84	96	5.36	96	4.61	86	4.88	113
EGA Gregory	5.15	102	5.59	100	4.97	93	4.90	113
Genie	4.44	88	5.94	106	6.14	115	5.39	124
Hammer CL Plus	4.96	98	5.51	98	6.18	116	3.60	83
Ironbark	5.08	101	5.55	99	5.29	99	4.21	97
Jumbuck	5.38	107	5.70	102	5.31	99	5.20	120
Kingston	4.58	91	6.18	110	4.90	92	4.24	98
Leverage	5.65	112	5.96	107	5.03	94	4.86	112
LRPB Flanker	5.35	106	5.67	101	5.40	101	4.58	106
LRPB Hellfire	4.38	87	5.11	91	6.02	113	3.74	87
LRPB Major	5.31	105	6.24	112	6.00	112	5.73	132

DO NOT REPRODUCE, REPLICATE OR COPY

Table 3: South East main season wheat trial yield data.

Locality	Canowindra		Galong		Temora		Wagga Wagga	
Trial ID	WMaA24CANO2		WMaA24GALO2		WMaA24TEMO2		WMaA24WARI2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
LRPB Matador	5.58	111	6.30	113	5.01	94	4.75	110
LRPB Mustang	5.10	101	4.98	89	5.36	100	2.61	60
LRPB Optimus	5.46	108	5.54	99	4.84	91	5.02	116
LRPB Oryx	5.56	110	4.75	85	4.57	86	3.13	72
LRPB Parakeet	4.79	95	4.96	89	4.65	87	3.63	84
LRPB Raider	5.02	99	5.60	100	4.98	93	5.20	120
LRPB Reliant	5.39	107	5.14	92	5.62	105	3.67	85
LRPB Scotch	5.27	104	5.69	102	4.76	89	5.25	121
LRPB Spitfire	4.70	93	4.34	78	5.35	100	2.27	52
LRPB Tracer	5.61	111	5.16	92	4.57	86	3.87	89
LRPB Trojan	4.57	91	5.56	99	5.07	95	4.58	106
QAL2000	4.30	85	5.69	102	4.79	90	4.28	99
Razor CL Plus	5.30	105	5.49	98	3.92	73	2.74	63
Rebel Rat	5.01	99	4.55	81	4.95	93	1.50	35
Reilly	4.59	91	5.47	98	4.63	87	3.97	92
RGT Ponsford	5.02	100	6.10	109	5.91	111	4.86	112
RGT Zanzibar	5.94	118	5.68	102	5.24	98	4.66	108
RockStar	3.90	77	6.42	115	6.25	117	5.34	123
Scepter	4.92	98	6.15	110	5.25	98	4.56	105
Sheriff CL Plus	5.10	101	5.94	106	5.77	108	4.99	115
Shotgun	4.59	91	6.36	114	5.76	108	4.71	109
Sunblade CL Plus	5.21	103	5.07	91	4.81	90	3.79	88
Suncentral	5.14	102	4.94	88	6.55	123	3.65	84

DO NOT REPRODUCE, REPLICATE OR COPY

Table 3: South East main season wheat trial yield data.

Locality	Canowindra		Galong		Temora		Wagga Wagga	
Trial ID	WMaA24CANO2		WMaA24GALO2		WMaA24TEMO2		WMaA24WARI2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Sunchaser	4.82	96	4.53	81	6.21	116	2.99	69
Sundancer	4.81	95	5.27	94	5.83	109	5.05	117
Sunmaster	5.37	106	5.21	93	5.01	94	4.87	113
Sunprime	5.60	111	5.15	92	4.85	91	2.83	65
Suntop	5.26	104	5.17	92	4.99	93	4.49	104
Tomahawk CL Plus	4.92	98	6.41	115	5.26	98	4.55	105
Valiant CL Plus	4.41	87	5.68	101	5.01	94	5.34	123
Vixen	4.62	92	5.42	97	6.07	114	2.33	54
Site mean (t/ha)	5.04	100	5.60	100	5.34	100	4.33	100
CV (%)	6.24		2.65		17.48		4.47	
Probability	<0.001		<0.001		0.32		<0.001	
LSD (t/ha)	0.51		0.26		1.54		0.34	
Sowing date	16-May-2024		13-May-2024		06-May-2024		06-May-2024	

DO NOT REPRODUCE, REPLICATE OR COPY

Table 3: South East main season wheat trial yield data.

Locality	Canowindra		Galong		Temora		Wagga Wagga	
Trial ID	WMaA24CANO2		WMaA24GALO2		WMaA24TEMO2		WMaA24WARI2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Trial comments	WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST 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.		WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST 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.		WARNING: This trial displayed a degree of variability as indicated by the high CV of 17.5% and p-value of 0.32 indicating low significance of variety effect. These trial results should not be used to make variety selection decisions.		WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST 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.	

DO NOT REPRODUCE, REPLICATE OR COPY

Table 4: South West main season wheat trial yield data.

Locality	Lake Cargelligo		Lake Cowal		Lockhart		Oaklands	
Trial ID	WMaA24CARG2		WMaA24LCOW2		WMaA24LOCK2		WMaA24OAKL2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Ballista	5.31	103	3.60	89	1.37	87	1.67	93
Beckom	4.55	89	3.99	99	1.39	88	1.70	95
Boa	6.04	118	4.54	113	0.66	42	1.46	82
Boree	5.61	109	4.83	120	1.58	101	1.98	110
Borlaug 100	5.06	98	3.90	97	0.97	62	1.23	68
Brumby	6.10	119	4.65	116	1.64	104	2.36	132
Calibre	5.29	103	4.66	116	0.81	51	1.66	93
Catapult	4.90	95	4.63	115	2.01	128	2.19	122
Chief CL Plus	5.05	98	4.55	113	1.52	97	1.52	85
Condo	5.35	104	3.58	89	0.70	45	0.89	50
Coolah	4.89	95	3.88	96	2.55	162	2.18	122
Coota	5.01	98	4.04	100	1.95	124	2.02	113
EG Titanium	4.66	91	3.49	87	2.06	131	2.05	114
EGA Gregory	4.86	95	3.39	84	2.04	129	1.84	103
Genie	5.43	106	3.73	93	2.69	171	2.03	113
Hammer CL Plus	5.10	99	3.88	96	1.14	72	1.86	104
Ironbark	5.19	101	3.97	99	0.97	61	1.83	102
Jumbuck	5.42	106	4.08	101	1.78	113	1.98	111
Kingston	5.53	108	4.37	109	0.98	63	1.19	66
Lancelin	5.34	104	4.21	105	1.09	69	1.54	86
Leverage	5.19	101	4.24	105	2.22	141	2.13	119
LRPB Flanker	4.79	93	3.49	87	2.09	133	2.12	119
LRPB Hellfire	5.18	101	3.99	99	1.63	104	1.83	102

DO NOT REPRODUCE, REPLICATE OR COPY

Table 4: South West main season wheat trial yield data.

Locality	Lake Cargelligo		Lake Cowal		Lockhart		Oaklands	
Trial ID	WMaA24CARG2		WMaA24LCOW2		WMaA24LOCK2		WMaA24OAKL2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
LRPB Major	4.93	96	4.04	100	2.32	148	2.20	123
LRPB Matador	5.56	108	4.56	113	1.14	73	1.72	96
LRPB Mustang	5.04	98	4.21	105	0.95	60	1.41	78
LRPB Optimus	5.91	115	4.22	105	1.91	121	1.76	98
LRPB Oryx	5.15	100	3.29	82	0.85	54	1.32	74
LRPB Parakeet	4.27	83	2.69	67	1.44	92	1.63	91
LRPB Raider	4.79	93	3.66	91	2.49	158	2.29	128
LRPB Reliant	4.50	88	3.69	92	1.26	80	1.90	106
LRPB Scotch	4.22	82	3.44	85	2.34	149	1.88	105
LRPB Spitfire	4.27	83	3.73	93	0.92	59	1.47	82
LRPB Tracer	4.74	92	3.93	98	0.97	61	1.43	80
LRPB Trojan	5.16	100	4.16	103	2.09	133	1.91	107
QAL2000	4.02	78	2.91	72	2.53	161	2.29	128
Razor CL Plus	4.73	92	3.60	89	0.51	33	0.85	48
Rebel 65	5.46	106	3.08	77	1.74	111	1.74	97
Rebel Rat	5.19	101	3.76	94	1.07	68	1.40	78
Reilly	4.45	87	3.63	90	1.28	81	1.67	93
RGT Ponsford	5.83	113	4.11	102	1.67	106	2.14	120
RGT Zanzibar	5.41	105	3.43	85	1.41	90	1.52	85
RockStar	5.70	111	4.01	100	2.24	143	2.20	123
Scepter	4.94	96	4.76	118	1.10	70	1.44	80
Sheriff CL Plus	5.59	109	4.41	109	1.88	120	1.92	107
Shotgun	5.22	102	4.27	106	1.07	68	1.86	104

DO NOT REPRODUCE, REPLICATE OR COPY

Table 4: South West main season wheat trial yield data.

Locality	Lake Cargelligo		Lake Cowal		Lockhart		Oaklands	
Trial ID	WMaA24CARG2		WMaA24LCOW2		WMaA24LOCK2		WMaA24OAKL2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Sunblade CL Plus	5.13	100	4.14	103	1.21	77	1.83	102
Suncentral	5.50	107	4.71	117	1.68	107	2.07	116
Sunchaser	4.46	87	3.23	80	1.18	75	1.55	87
Sundancer	6.01	117	4.35	108	2.09	133	1.87	104
Sunmaster	5.45	106	4.23	105	1.98	126	2.09	116
Sunprime	5.63	110	4.19	104	1.37	87	2.01	112
Suntop	4.43	86	4.01	100	1.61	102	1.94	109
Tomahawk CL Plus	5.67	110	4.87	121	1.00	64	1.60	89
Valiant CL Plus	4.31	84	4.90	122	2.71	172	2.12	118
Vixen	5.00	97	4.83	120	0.76	48	1.10	61
Site mean (t/ha)	5.14	100	4.02	100	1.57	100	1.79	100
CV (%)	9.04		7.06		7.41		8.58	
Probability	<0.001		<0.001		<0.001		<0.001	
LSD (t/ha)	0.81		0.49		0.20		0.27	
Sowing date	21-May-2024		20-May-2024		09-May-2024		06-May-2024	

DO NOT REPRODUCE, REPLICATE OR COPY

Table 4: South West main season wheat trial yield data.

Locality	Lake Cargelligo		Lake Cowal		Lockhart		Oaklands	
Trial ID	WMaA24CARG2		WMaA24LCOW2		WMaA24LOCK2		WMaA24OAKL2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Trial comments	WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST 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.		WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST 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.		WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST 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.		WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST 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.	

Table 5: Northern early season wheat trial yield data.

Region	N/E		N/W	
Locality	Spring Ridge		Goonumbla	
Trial ID	WEaA24SPRR2		WEaA24GOON2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean
Avoca	6.38	101	5.04	113
Brighton	6.44	102	4.41	99
Brumby	6.77	107	5.11	114
Catapult	6.75	107	4.39	98
Coolah	6.51	103	5.09	114
Coota	6.27	99	4.03	90
EG Titanium	5.79	91	4.11	92
EGA Gregory	5.49	87	4.15	93
EGA Wedgetail	6.38	101	3.47	78
Genie	6.53	103	3.07	69
Illabo	6.71	106	4.18	94
Intrigue	5.18	82	4.97	111
Jumbuck	6.81	107	4.94	111
Leverage	6.88	109	5.80	130
Longsword	6.26	99	5.31	119
LRPB Flanker	5.64	89	4.28	96
LRPB Kittyhawk	6.30	99	4.35	97
LRPB Lancer	5.57	88	4.69	105
LRPB Major	6.11	96	4.44	100
LRPB Nighthawk	6.52	103	4.28	96
LRPB Optimus	6.03	95	5.16	116
LRPB Raider	6.48	102	4.75	106
LRPB Scotch	6.82	108	4.18	94
LRPB Stealth	5.68	90	4.55	102
Rebel 65	5.38	85	4.10	92
RGT Zanzibar	7.33	116	-	-
RockStar	6.98	110	3.76	84
Sundancer	5.99	94	5.18	116
Sunflex	7.13	113	4.99	112
Sunmax	6.77	107	3.99	90
Valiant CL Plus	6.63	105	4.08	92
Wallaroo	6.60	104	3.34	75

Table 5: Northern early season wheat trial yield data.

Region	N/E		N/W	
Locality	Spring Ridge		Goonumbla	
Trial ID	WEaA24SPRR2		WEaA24GOON2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean
Site mean (t/ha)	6.34	100	4.46	100
CV (%)	3.20		8.63	
Probability	<0.001		<0.001	
LSD (t/ha)	0.33		0.63	
Sowing date	09-May-2024		09-May-2024	
Trial comments	WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST 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.		WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST 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.	

Table 6: South East early season wheat trial yield data

Locality	Canowindra		Galong		Wagga Wagga	
Trial ID	WEaA24CANO2		WEaA24GALO2		WEaA24WARI2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Avoca	4.73	126	6.47	122	3.33	141
Beckom	1.54	41	5.45	102	0.85	36
BigRed	5.28	141	6.30	118	4.60	195
Brighton	5.26	140	5.56	104	4.86	206
Brumby	2.61	70	4.81	90	0.45	19
Catapult	3.48	93	5.62	106	1.01	43
Coolah	3.61	96	5.42	102	1.49	63
Coota	3.57	95	5.58	105	1.19	50
Denison	4.35	116	5.95	112	2.60	110
DS Pascal	4.02	107	5.41	102	1.56	66
EG Jet	1.77	47	4.69	88	0.47	20
EG Titanium	2.95	79	4.63	87	1.35	57
EGA Gregory	3.06	82	4.24	80	1.01	43
EGA Wedgetail	4.42	118	5.11	96	4.73	200
Genie	3.84	102	5.75	108	1.98	84
Illabo	4.70	126	4.97	93	4.09	173
Jumbuck	3.14	84	5.34	100	0.69	29
Leverage	3.24	87	5.22	98	1.40	59
Longsword	5.69	152	4.71	88	2.33	99
LRPB Flanker	3.26	87	4.84	91	0.97	41
LRPB Kittyhawk	4.26	114	5.25	99	4.28	181
LRPB Lancer	2.47	66	4.78	90	1.32	56
LRPB Major	3.16	84	6.09	114	2.13	90
LRPB Nighthawk	4.26	114	5.53	104	4.37	185
LRPB Optimus	2.71	72	5.26	99	0.94	40
LRPB Raider	4.21	112	5.61	105	1.81	77
LRPB Scotch	1.16	31	5.56	105	0.79	33
LRPB Stealth	3.69	99	4.90	92	1.34	57
Mowhawk	5.35	143	6.21	117	5.30	224
Rebel 65	1.73	46	3.43	64	0.52	22
RGT Accroc	4.35	116	6.09	114	4.27	181
RGT Cesario	4.20	112	5.59	105	3.58	152
RGT Waugh	4.28	114	5.49	103	3.76	159
RGT Zanzibar	4.45	119	4.46	84	2.70	114

Table 6: South East early season wheat trial yield data

Locality	Canowindra		Galong		Wagga Wagga	
Trial ID	WEaA24CANO2		WEaA24GALO2		WEaA24WARI2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
RockStar	2.60	69	5.39	101	1.18	50
Severn	5.04	135	5.41	102	4.41	187
Sheriff CL Plus	1.69	45	4.45	84	0.47	20
Stockade	5.27	141	5.92	111	4.11	174
Sundancer	3.66	98	4.96	93	1.41	60
Sunflex	3.91	104	5.46	103	3.74	158
Triple 2	5.90	157	6.64	125	5.50	233
Valiant CL Plus	4.73	126	5.47	103	1.93	82
Wallaroo	5.05	135	6.17	116	4.56	193
Site mean (t/ha)	3.75	100	5.32	100	2.36	100
CV (%)	6.87		3.65		10.91	
Probability	<0.001		<0.001		<0.001	
LSD (t/ha)	0.44		0.34		0.43	

Sowing date	17-Apr-2024	27-Apr-2024	15-Apr-2024
--------------------	-------------	-------------	-------------

Trial comments	<p>WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST 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.</p>	<p>WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST 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.</p>	<p>WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST 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.</p>
-----------------------	--	--	--

Table 7: South West early season wheat trial yield data.

Locality	Lockhart		Oaklands	
Trial ID	WEaA24LOCK2		WEaA24OAKL2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean
Avoca	2.44	170	1.74	119
Beckom	0.60	42	0.97	66
Brighton	2.24	156	1.56	106
Brumby	0.50	35	1.51	103
Catapult	0.87	60	1.51	103
Coolah	1.32	92	1.80	123
Coota	0.64	45	1.35	92
Denison	1.27	89	1.73	118
DS Pascal	1.61	113	1.51	103
EG Jet	0.81	57	1.07	73
EG Titanium	0.95	66	1.51	103
EGA Gregory	0.92	64	1.44	98
EGA Wedgetail	2.09	146	1.23	84
Genie	0.98	68	1.30	88
Illabo	1.60	112	1.25	85
Jumbuck	0.76	53	1.39	95
Leverage	1.16	81	1.62	111
Longsword	0.65	45	1.28	88
LRPB Flanker	1.09	76	1.54	105
LRPB Kittyhawk	2.26	158	1.14	78
LRPB Lancer	1.14	80	1.05	72
LRPB Major	0.96	67	2.03	139
LRPB Nighthawk	2.40	167	1.43	97
LRPB Optimus	0.97	68	1.14	78
LRPB Raider	1.29	90	1.75	119
LRPB Scotch	1.36	95	1.15	78
LRPB Stealth	1.11	77	1.52	104
Mowhawk	1.87	130	1.64	112
Rebel 65	0.76	53	1.22	83
RGT Accroc	2.96	207	1.60	109
RGT Cesario	3.25	227	1.71	117
RGT Waugh	2.97	208	1.66	113
RGT Zanzibar	0.87	60	1.02	70
RockStar	0.83	58	1.14	78

Table 7: South West early season wheat trial yield data.

Locality	Lockhart		Oaklands	
Trial ID	WEaA24LOCK2		WEaA24OAKL2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean
Sheriff CL Plus	0.56	39	1.09	74
Stockade	3.03	212	1.44	98
Sundancer	1.07	75	1.35	92
Sunflex	1.78	124	1.49	102
Valiant CL Plus	1.56	109	1.87	127
Wallaroo	3.08	215	2.13	146
Site mean (t/ha)	1.43	100	1.47	100
CV (%)	11.93		9.58	
Probability	<0.001		<0.001	
LSD (t/ha)	0.28		0.24	
Sowing date	30-Apr-2024		22-Apr-2024	

Trial comments	<p>WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST 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.</p>	<p>WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST 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.</p>
-----------------------	--	--

DO NOT REPRODUCE, REPLICATE OR COPY

Table 8: Long season wheat trial yield data

Locality	S/E		S/E		S/E		S/E	
Locality	Galong		Gerogery		Millthorpe		Woodstock	
Trial ID	WLoA24GALO2		WLoA24GERO2		WLoA24MLTH2		WLoA24WOOD2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Anapurna	5.96	123	6.33	119	6.46	98	7.89	121
BigRed	6.49	134	6.85	129	7.38	112	8.81	136
Brighton	5.41	111	6.10	115	7.89	119	5.41	83
DS Bennett	5.78	119	6.15	116	6.34	96	7.34	113
EG Titanium	1.42	29	2.37	45	5.36	81	3.54	54
EGA Wedgetail	4.78	99	4.72	89	6.68	101	5.60	86
Illabo	4.77	98	5.37	101	7.02	106	4.78	74
Longford	5.11	105	5.88	111	6.57	99	7.35	113
Longsword	3.43	71	4.85	91	4.48	68	2.84	44
LRPB Kittyhawk	4.58	94	5.13	97	6.50	98	5.87	90
LRPB Nighthawk	5.04	104	5.40	102	5.97	90	6.16	95
Manning	5.82	120	5.80	109	7.47	113	8.12	125
Naparoo	5.23	108	5.79	109	4.89	74	7.49	115
RGT Accroc	5.65	117	6.38	120	7.29	110	9.03	139
RGT Cesario	4.96	102	5.86	110	7.91	120	8.49	131
RGT Waugh	5.63	116	5.16	97	6.83	103	8.04	124
RGT Zanzibar	3.39	70	3.58	67	6.47	98	3.12	48
Severn	5.00	103	5.78	109	6.34	96	5.37	83
Stockade	3.85	79	5.04	95	5.67	86	7.67	118
Triple 2	6.39	132	7.04	133	7.22	109	7.59	117
Valiant CL Plus	2.18	45	2.70	51	4.36	66	3.80	58
Willaura	4.00	82	5.00	94	6.62	100	6.05	93

DO NOT REPRODUCE, REPLICATE OR COPY

Table 8: Long season wheat trial yield data

Locality	S/E		S/E		S/E		S/E	
Locality	Galong		Gerogery		Millthorpe		Woodstock	
Trial ID	WLoA24GALO2		WLoA24GERO2		WLoA24MLTH2		WLoA24WOOD2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Site mean (t/ha)	4.85	100	5.31	100	6.62	100	6.50	100
CV (%)	5.19		6.34		11.74		5.18	
Probability	<0.001		<0.001		<0.001		<0.001	
LSD (t/ha)	0.41		0.56		1.28		0.56	
Sowing date	12-Apr-2024		12-Apr-2024		16-Apr-2024		15-Apr-2024	
Trial comments	WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST 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.		WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST 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.		WARNING: This trial was impacted by subsoil issues of molybdenum and boron deficiencies resulting in restricted plant growth and compromised grain yield and the 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 SEVERELY AFFECTED BY FROST 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.	

DO NOT REPRODUCE, REPLICATE OR COPY

2024 quarantine report New South Wales barley.

Table 9: Barley main season trial yield data.

Region	N/W		S/W		S/W		S/W		S/W	
Locality	Goonumbla		Deniliquin		Lake Cowal		Lockhart		Oaklands	
Trial ID	BMAA24GOON2		BMAA24DENI2		BMAA24LCOW2		BMAA24LOCK2		BMAA24OAKL2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Alestar	4.27	92	3.14	86	4.31	96	4.01	105	2.60	93
Beast	3.94	85	4.82	132	4.57	101	3.92	102	3.01	107
Bigfoot CL	4.69	101	4.28	117	4.91	109	4.22	110	3.25	116
Bottler	4.33	94	2.44	67	4.35	96	4.11	107	2.78	99
Buff	-	-	3.14	86	4.27	95	3.41	89	2.45	87
Combat	4.97	107	4.70	129	4.61	102	4.37	114	3.20	114
Commander	3.94	85	-	-	-	-	-	-	-	-
Commodus CL	4.24	91	3.46	95	4.35	96	3.57	93	2.85	101
Compass	4.44	96	3.95	108	3.99	88	3.44	90	2.82	100
Cyclops	5.17	112	4.14	113	4.25	94	4.36	114	3.11	110
Fathom	4.06	88	3.33	91	4.46	99	3.64	95	2.44	87
La Trobe	3.83	83	2.43	66	3.98	88	3.09	81	1.87	66
Laperouse	4.83	104	4.71	129	4.51	100	4.10	107	3.05	109
Leabrook	4.77	103	4.89	134	4.65	103	4.04	106	3.21	114
Maximus CL	5.17	111	4.47	122	4.76	105	3.68	96	2.62	93
Minotaur	5.88	127	3.70	101	4.75	105	4.14	108	3.61	128

DO NOT REPRODUCE, REPLICATE OR COPY

Table 9: Barley main season trial yield data.

Region	N/W		S/W		S/W		S/W		S/W	
Locality	Goonumbla		Deniliquin		Lake Cowal		Lockhart		Oaklands	
Trial ID	BMAA24GOON2		BMAA24DENI2		BMAA24LCOW2		BMAA24LOCK2		BMAA24OAKL2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Neo CL	5.36	116	4.34	119	4.93	109	4.39	115	3.20	114
PegasusAX	4.17	90	2.53	69	4.47	99	3.63	95	2.75	98
RGT Planet	4.13	89	3.95	108	4.66	103	3.94	103	2.96	105
Rosalind	4.64	100	2.98	81	4.36	97	3.31	86	2.48	88
Spartacus CL	4.76	103	3.67	100	4.44	98	2.81	73	2.09	74
Spinnaker	6.16	133	3.85	105	5.14	114	4.02	105	2.21	78
Titan AX	3.80	82	2.96	81	4.72	105	4.62	121	3.51	125
Yeti	5.34	115	3.49	95	4.25	94	3.72	97	2.92	104
Zena CL	3.69	80	3.25	89	5.09	113	4.21	110	2.95	105
Site mean (t/ha)	4.63	100	3.66	100	4.51	100	3.83	100	2.81	100
CV (%)	7.24		13.03		7.39		5.65		8.35	
Probability	<0.001		<0.001		<0.001		<0.001		<0.001	
LSD (t/ha)	0.56		0.78		0.57		0.35		0.41	
Sowing date	16-May-2024		15-May-2024		20-May-2024		09-May-2024		06-May-2024	

DO NOT REPRODUCE, REPLICATE OR COPY

Table 9: Barley main season trial yield data.

Region	N/W		S/W		S/W		S/W		S/W	
Locality	Goonumbla		Deniliquin		Lake Cowal		Lockhart		Oaklands	
Trial ID	BMaA24GOON2		BMaA24DENI2		BMaA24LCOW2		BMaA24LOCK2		BMaA24OAKL2	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean	tonnes/ha	% site mean
Trial comments	WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST 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.		WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST 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.		WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST 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.		WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST 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.		WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST 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 New South Wales canola.

Table 10: Medium-high rainfall glyphosate tolerant trial yield data.

Region	S/E	
Locality	Temora	
Trial ID	CHGA24TEM02	
Variety name	tonnes/ha	% site mean
DG Buller G	0.67	73
DG Hotham TF	0.47	52
Hyola Regiment XC	0.97	107
InVigor LR 4540P	1.31	143
InVigor LR 5040P	0.79	87
InVigor R 4520P	0.88	96
Nuseed Eagle TF	1.16	127
Nuseed Hunter TF	0.65	71
Nuseed Raptor TF	1.08	118
Pioneer PY422G	0.89	97
Pioneer PY424GC	0.61	66
Pioneer PY428R	1.08	118
Pioneer PY525G	1.27	139
VICTORY V55-04TF	0.70	77
Site mean (t/ha)	0.91	100
CV (%)	8.22	
Probability	<0.001	
LSD (t/ha)	0.13	
Sowing date	19-Apr-2024	
Trial comments	<p>WARNING: An extended period of drought and severe frost has caused extreme plot variability. Frost will affect varieties differently and trial results will be unreliable and not a true reflection of variety performance or ranking. The trial results will be unreliable and not a true reflection of variety performance or ranking.</p>	

Table 11: Medium-high rainfall imidazolinone tolerant trial yield data.

Region	S/E	
Locality	Temora	
Trial ID	CHIA24TEM02	
Variety name	tonnes/ha	% site mean
Hyola Continuum CL	0.59	83
Hyola Solstice CL	0.83	117
Pioneer 44Y94 CL	0.81	114
Pioneer 45Y95 (CL)	0.75	105
Pioneer PY421C	0.86	121
VICTORY V75-03CL	0.43	61
Site mean (t/ha)	0.71	100
CV (%)	10.88	
Probability	<0.001	
LSD (t/ha)	0.13	
Sowing date	19-Apr-2024	
Trial comments	WARNING: An extended period of drought and severe frost has caused extreme plot variability. Frost will affect varieties differently and trial results will be unreliable and not a true reflection of variety performance or ranking. The trial results will be unreliable and not a true reflection of variety performance or ranking.	

Table 12: Medium-high rainfall triazine tolerant trial yield data.

Region	S/E	
Locality	Temora	
Trial ID	CHTA24TEM02	
Variety name	tonnes/ha	% site mean
ATR Bonito	0.67	81
ATR Swordfish	0.43	53
DG BIDGEE TT	0.83	102
DG Torrens TT	0.82	100
Hyola Blazer TT	0.74	90
Hyola Defender CT	0.69	84
HyTTec Trifecta	1.17	143
HyTTec Trophy	1.09	133
InVigor LT 4530P	0.87	106
InVigor T 4511	1.07	130
Monola 422TT	0.47	57
Monola H524TT	1.01	123
Nuseed Griffon TTI	0.93	113
Pioneer PY429T	1.01	124
Pioneer PY520TC	0.64	78
Renegade TT	0.34	41
RGT Baseline TT	1.04	126
RGT Capacity TT	0.72	88
SF Dynatron TT	0.62	75
Site mean (t/ha)	0.82	100
CV (%)	8.98	
Probability	<0.001	
LSD (t/ha)	0.13	

Sowing date 19-Apr-2024

Trial comments WARNING: An extended period of drought and severe frost has caused extreme plot variability. Frost will affect varieties differently and trial results will be unreliable and not a true reflection of variety performance or ranking. The trial results will be unreliable and not a true reflection of variety performance or ranking.

2024 quarantine report New South Wales chickpea.

Table 13: Desi chickpea trial yield data.

Region	N/E	
Locality	Bellata	
Trial ID	DMDA24BELL2	
Variety name	tonnes/ha	% site mean
CBA Captain	1.15	88
Kyabra	0.77	59
PBA Boundary	0.86	66
PBA Drummond	0.69	53
PBA HatTrick	1.53	118
PBA Seamer	2.24	172
Site mean (t/ha)	1.30	100
CV (%)	17.51	
Probability	0.002	
LSD (t/ha)	0.46	
Sowing date	13-Jun-2024	
Trial comments	<p>WARNING: THIS TRIAL WAS AFFECTED BY DISEASE and displayed a degree of variability as indicated by the high CV of 17.5% indicating high variability across the trial. Trial is not released. These trial results should not be used to make variety selection decisions.</p>	