

# 2022 QUARANTINE REPORT



**SOUTH AUSTRALIA**

## Contents

<b>Important information for quarantined trials</b>	<b>3</b>
<b>Quarantined trials list</b>	<b>4</b>
Table 1: 2022 South Australia quarantined trials.	4
<b>2022 quarantine report South Australian wheat.</b>	<b>5</b>
Table 2: Main season wheat trial yield data	5
<b>2022 quarantine report South Australian oat.</b>	<b>7</b>
Table 3: Oat trial yield data.	7
<b>2022 quarantine report South Australian canola.</b>	<b>8</b>
Table 4: Medium-high rainfall glyphosate tolerant trial yield data.	8
Table 5: Medium-high rainfall imidazolinone tolerant trial yield data.	9
Table 6: Medium-high rainfall triazine tolerant trial yield data.	10
<b>2022 quarantine report South Australian faba bean.</b>	<b>11</b>
Table 7: Faba bean trial yield data.	11
<b>2022 quarantine report South Australian field pea.</b>	<b>12</b>
Table 8: Field pea trial yield data.	12



**DO NOT REPRODUCE, REPLICATE OR COPY**

## 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 South Australia quarantined trials.**

Site description	Crop	Trial code	Sowing date	Harvest date	Mean yield	CV value	P value	F value
<b>Paskeville</b>	Wheat	WMaA22PASK5	14-Jun	23-Dec	4.78	9.68	<0.001	261.54
<b>Wanbi</b>	Wheat	WMaA22WANB5	16-May	8-Dec	2.74	5.66	<0.001	10.82
<b>Paskeville</b>	Oat	OMaA22PASK5	14-Jun	23-Dec	3.61	13.35	0.04	2.35
<b>Yeelanna</b>	Canola	CHGA22YEEL5	2-May	17-Nov	3.36	8.03	<0.001	11.22
<b>Yeelanna</b>	Canola	CHIA22YEEL5	2-May	17-Nov	3.69	7.47	<0.001	11.74
<b>Yeelanna</b>	Canola	CHTA22YEEL5	2-May	23-Nov	2.22	12.12	<0.001	18.12
<b>Mundulla</b>	Faba Bean	FMaA22MUND5	12-May	7-Jan	3.49	14.51	0.09	2.36
<b>Mundulla</b>	Field Pea	PMaA22MUND5	28-May	7-Jan	3.26	8.47	0.01	3.84

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 South Australian wheat.

Table 2: Main season wheat trial yield data

Region	Yorke P		Murray Mallee	
Locality	Paskeville		Wanbi	
Trial ID	WMaA22PASK5		WMaA22WANB5	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean
Ascot	5.20	109	-	-
Ballista	3.16	66	3.02	110
Boree	4.92	103	2.91	106
Brumby	5.56	116	3.23	118
Calibre	3.76	79	3.10	113
Catapult	4.55	95	3.03	111
Chief CL Plus	5.31	111	2.29	84
Cosmick	4.80	100	2.86	104
Cutlass	5.57	116	3.10	113
Denison	5.48	115	-	-
Devil	4.60	96	-	-
EG Titanium	5.04	106	2.86	104
Emu Rock	5.52	116	2.02	74
Grenade CL Plus	5.03	105	2.81	102
Hammer CL Plus	5.02	105	2.57	94
Kingston	3.85	81	-	-
Kord CL Plus	4.55	95	2.35	86
LRPB Anvil CL Plus	5.60	117	2.49	91
LRPB Dual	4.48	94	2.50	91
LRPB Scout	-	-	2.73	99
LRPB Trojan	4.79	100	1.94	71
Mace	4.63	97	2.71	99
Razor CL Plus	4.16	87	2.79	102
Reilly	3.69	77	2.28	83
RockStar	5.34	112	2.95	107
Scepter	3.73	78	2.91	106
Sheriff CL Plus	5.76	120	2.40	87

Table 2: Main season wheat trial yield data

Region	Yorke P		Murray Mallee	
Locality	Paskeville		Wanbi	
Trial ID	WMaA22PASK5		WMaA22WANB5	
Variety name	tonnes/ha	% site mean	tonnes/ha	% site mean
Sunblade CL Plus	3.19	67	2.62	96
Sunmaster	4.78	100	2.70	99
Tungsten	-	-	2.87	105
Valiant CL Plus	5.42	113	3.06	112
Vixen	4.67	98	2.75	100
Yitpi	4.80	100	2.61	95
Zen	5.60	117	-	-
<b>Site mean (t/ha)</b>	4.78	100	2.74	100
<b>CV (%)</b>	9.68		5.66	
<b>Probability</b>	<0.001		<0.001	
<b>LSD (t/ha)</b>	0.79		0.29	
<b>Sowing date</b>	14-Jun-2022		16-May-2022	
<b>Trial comments</b>	WARNING: Trial is not released due to severe crown rot. 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 Rhizoctonia damage. Results to be published in the quarantine report.. These trial results should not be used to make variety selection decisions.	

## 2022 quarantine report South Australian oat.

Table 3: Oat trial yield data.

Region	Yorke P	
Locality	Paskeville	
Trial ID	OMaA22PASK5	
Variety name	tonnes/ha	% site mean
Bannister	3.42	95
Bilby	3.51	97
Durack	3.42	95
Koala	3.60	100
Koorabup	3.74	104
Kowari	2.77	77
Mitika	3.71	103
Possum	3.62	100
Williams	3.40	94
Yallara	2.87	79
Site mean (t/ha)	3.61	100
CV (%)	13.35	
Probability	0.04	
LSD (t/ha)	0.83	
Sowing date	14-Jun-2022	

**Trial comments**

WARNING: Trial is not released due to crown rot and chemical damage. Results to be published in the quarantine report. These trial results should not be used to make variety selection decisions.

## 2022 quarantine report South Australian canola.

Table 4: Medium-high rainfall glyphosate tolerant trial yield data.		
Region	Lower EP	
Locality	Yeelanna	
Trial ID	CHGA22YEEL5	
Variety name	tonnes/ha	% site mean
DG Bindo TF	2.94	87
Hyola 410XX	2.19	65
Hyola Battalion XC	3.91	117
Hyola Garrison XC	2.99	89
Hyola Regiment XC	3.33	99
InVigor R 4022P	3.45	103
InVigor R 4520P	4.08	122
Nuseed Condor TF	2.75	82
Nuseed Eagle TF	2.70	80
Nuseed Emu TF	3.40	101
Nuseed Hunter TF	3.70	110
Nuseed Raptor TF	2.58	77
Pioneer 44Y27 (RR)	3.44	102
Pioneer 44Y30 RR	3.63	108
Pioneer 45Y28 RR	3.26	97
<b>Site mean (t/ha)</b>	<b>3.36</b>	<b>100</b>
<b>CV (%)</b>	<b>8.03</b>	
<b>Probability</b>	<b>&lt;0.001</b>	
<b>LSD (t/ha)</b>	<b>0.44</b>	
<b>Sowing date</b>	<b>02-May-2022</b>	

**Trial comments**

WARNING: Trial is not released due to excessive shattering, affecting varieties differently and trial results will be unreliable and not a true reflection of variety performance or ranking. Results to be published in the quarantine report. These trial results should not be used to make variety selection decisions.



**Table 5: Medium-high rainfall imidazolinone tolerant trial yield data.**

Region	Lower EP	
Locality	Yeelanna	
Trial ID	CHIA22YEEL5	
Variety name	tonnes/ha	% site mean
Hyola Equinox CL	3.30	89
Hyola Solstice CL	3.46	94
Pioneer 44Y94 CL	4.28	116
Pioneer 45Y95 (CL)	4.06	110
<b>Site mean (t/ha)</b>	3.69	100
<b>CV (%)</b>	7.47	
<b>Probability</b>	<0.001	
<b>LSD (t/ha)</b>	0.43	
<b>Sowing date</b>	02-May-2022	
<b>Trial comments</b>	WARNING: Trial is not released due to excessive shattering, affecting varieties differently and trial results will be unreliable and not a true reflection of variety performance or ranking. Results to be published in the quarantine report. These trial results should not be used to make variety selection decisions.	

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

Region	Lower EP	
Locality	Yeelanna	
Trial ID	CHTA22YEEL5	
Variety name	tonnes/ha	% site mean
AFP Cutubury	2.02	91
ATR Bonito	2.04	92
DG BIDGEE TT	1.08	49
DG MURRAY TT	1.01	45
DG Torrens TT	1.39	63
Hyola Blazer TT	3.05	137
Hyola Enforcer CT	1.91	86
HyTTec Trifecta	1.90	85
HyTTec Trophy	2.22	100
InVigor LT 4530P	3.15	142
InVigor T 4510	3.10	139
InVigor T 4511	2.49	112
InVigor T 6010	2.32	104
PY520TC	3.18	143
Renegade TT	2.23	100
RGT Baseline TT	1.86	84
RGT Capacity TT	2.37	106
SF Spark TT	1.81	81
Site mean (t/ha)	2.22	100
CV (%)	12.12	
Probability	<0.001	
LSD (t/ha)	0.43	
Sowing date	02-May-2022	

**Trial comments**

WARNING: Trial is not released due to excessive shattering, affecting varieties differently and trial results will be unreliable and not a true reflection of variety performance or ranking. Results to be published in the quarantine report. These trial results should not be used to make variety selection decisions.

## 2022 quarantine report South Australian faba bean.

Table 7: Faba bean trial yield data.		
Region	South East	
Locality	Mundulla	
Trial ID	FMaA22MUND5	
Variety name	tonnes/ha	% site mean
Farah	3.82	109
Fiesta VF	3.04	87
Nura	3.23	93
PBA Amberley	2.77	79
PBA Bendoc	3.10	89
PBA Marne	3.98	114
PBA Rana	2.83	81
PBA Samira	3.52	101
PBA Zahra	3.34	96
Site mean (t/ha)	3.49	100
CV (%)	14.51	
Probability	0.09	
LSD (t/ha)	0.84	
Sowing date	12-May-2022	
Trial comments	WARNING: Trial is not released due to severe lodging leading to harvest problems. Results to be published in the quarantine report. These trial results should not be used to make variety selection decisions.	

## 2022 quarantine report South Australian field pea.

Table 8: Field pea trial yield data.

Region	South East	
Locality	Mundulla	
Trial ID	PMaA22MUND5	
Variety name	tonnes/ha	% site mean
GIA Kastar	3.09	95
GIA Ourstar	2.56	78
Kaspa	2.95	91
PBA Butler	3.71	114
PBA Gunyah	3.31	102
PBA Noosa	2.87	88
PBA Oura	3.23	99
PBA Pearl	3.61	111
PBA Percy	3.01	92
PBA Taylor	3.79	116
PBA Wharton	3.12	96
Site mean (t/ha)	3.26	100
CV (%)	8.47	
Probability	0.01	
LSD (t/ha)	0.47	
Sowing date	28-May-2022	
Trial comments	WARNING: Trial is not released due to harvesting issues. Results to be published in the quarantine report. These trial results should not be used to make variety selection decisions.	