

2020 QUARANTINE REPORT



SOUTH AUSTRALIA

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Important Information for Quarantined (Harvested but not released) Trials

To ensure the results of NVT remain robust, relevant and of the highest quality, it is agreed policy to exclude quarantined trial data from the published reports. Frost, wind and hail damage and drought events are random, uncontrollable, unpredictable and extremely variable in both timing and severity of the damage caused. Variety tolerances to frost and many other random climatic events cannot be measured or gauged in field based NVT.

****WARNING****

Data presented within this report provides growers with a transparent account of NVT trials that were severely compromised by various factors rendering them unsuitable for general publication. These trials were harvested but the data was not released as it was 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 this data is strictly prohibited, and it MUST NOT be used by ANY parties for producing variety brochures and marketing material, sowing guides, grower notes or ANY OTHER publication or communication activities.

Cover: NVT Cereal Trial, Western Australia

Photo: Courtesy Living Farm.

Table 1: 2020 South Australia Unreleased Trials.

Site Description	Name	Trial Code	Sowing Date	Harvest Date	Site Mean Yield	CV Value	P Value
Paskeville	Wheat	WMDA20PASK5	07-May-20	29-Dec-20	0.41	11.54	<0.001
Paskeville	Wheat	WMaA20PASK5	07-May-20	29-Dec-20	0.79	7.65	<0.001
Keith	Canola	CECA20KEIT5	28-Apr-20	20-Nov-20	3.11	4.74	0.80
Minnipa	Canola	CEIA20MINN5	08-May-20	27-Oct-20	1.20	14.90	0.508
Spalding	Canola	CMCA20SPAL5	27-Apr-20	24-Nov-20	2.09	5.96	0.15
Spalding	Canola	CMIA20SPAL5	27-Apr-20	24-Nov-20	1.67	5.98	<0.001
Spalding	Canola	CMTA20SPAL5	27-Apr-20	24-Nov-20	1.67	5.96	<0.001
Kulpara	Chickpea	DMDA20KULP5	24-May-20	30-Dec-20	0.76	10.04	0.00
Kulpara	Chickpea	DMKA20KULP5	24-May-20	30-Dec-20	0.52	14.82	0.02
Minlaton	Field Pea	PMaA20MINL5	21-May-20	24-Nov-20	4.17	8.03	0.02
Maitland	Lentil	QMaA20MAIT5	14-May-20	26-Nov-20	3.70	7.31	0.00

2020 Quarantine Report South Australia Wheat.

Table 2: Main Wheat Trial Yield data.

Region	Yorke P	
Locality	Paskeville	
Trial ID	WMaA20PASK5	
Variety Name	tonnes/ha	% Site Mean
Ascot	0.53	67
Ballista	0.90	114
Catapult	0.97	123
Chief CL Plus	0.84	106
Corack	0.66	83
Cosmick	0.83	105
Cutlass	0.75	95
Denison	0.62	78
Devil	0.91	115
EG Titanium	0.52	65
Emu Rock	0.93	117
Grenade CL Plus	0.82	104
Hammer CL Plus	0.92	117
Kord CL Plus	0.69	87
LRPB Cobra	0.47	60
LRPB Scout	0.59	75
LRPB Trojan	0.69	87
Mace	0.95	120
Razor CL Plus	0.98	124
RockStar	1.03	131
Scepter	1.07	136
Sheriff CL Plus	0.90	114
Sunblade CL Plus	0.93	117
Vixen	1.05	133
Wyalkatchem	0.81	102
Yitpi	0.56	71
Zen	0.73	92
Site Mean (t/ha)	0.79	100
CV (%)	7.65	
Probability	<0.001	
LSD (t/ha)	0.10	
Sowing Date	07-May-2020	
Trial Comments	Trial not released due to severe drought and crown rot. These trial results should not be used to make variety selection decisions.	

Table 3: Durum Wheat Trial Yield data.

Region	Yorke P	
Locality	Paskeville	
Trial ID	WMDA20PASK5	
Variety Name	Tonnes/ha	% Site Mean
Bitalli	0.50	122
Caparoi	0.40	98
DBA Artemis	0.44	108
DBA Bindaroi	0.47	114
DBA Lillaroi	0.28	67
DBA Spes	0.36	89
DBA Vittaroi	0.56	136
DBA-Aurora	0.47	115
EGA Bellaroi	0.26	63
Hyperno	0.51	124
Jandaroi	0.16	38
Saintly	0.43	105
Tjilkuri	0.43	105
Westcourt	0.45	111
Site Mean (t/ha)	0.41	100
CV (%)	11.54	
Probability	<0.001	
LSD (t/ha)	0.08	
Sowing Date	07-May-2020	
Trial Comments	Trial not released due to severe drought and crown rot. These trial results should not be used to make variety selection decisions.	

2020 Quarantine Report South Australia Canola.

Table 4: Conventional Canola Trial Yield data.

Region	South East		Mid North	
Locality	Keith		Spalding	
Trial ID	CECA20KEIT5		CMCA20SPAL5	
Variety Name	tonnes/ha	% Site Mean	tonnes/ha	% Site Mean
Nuseed Diamond	3.12	100	2.14	102
Nuseed Quartz	3.11	100	2.04	98
Site Mean (t/ha)	3.11	100	2.09	100
CV (%)	4.74		5.96	
Probability	0.80		0.15	
LSD (t/ha)	0.13		0.13	
Sowing Date	28-Apr-2020		27-Apr-2020	
Trial Comments	Trial has a high P value (0.80) indicating low significance of variety effect. Interpret results with caution. These trial results should not be used to make variety selection decisions.		Trial not to be released. No significant yield difference between varieties. These trial results should not be used to make variety selection decisions.	

Table 5: Imidazolinone Canola Trial Yield data.

Region	Mid North		Upper EP	
Locality	Spalding		Minnipa	
Trial ID	CMIA20SPAL5		CEIA20MINN5	
Variety Name	tonnes/ha	% Site Mean	tonnes/ha	% Site Mean
Pioneer 43Y92 (CL)	1.63	98	1.21	101
Pioneer 44Y90 (CL)	1.62	97	1.14	95
Pioneer 44Y94 CL	1.82	109	-	-
Pioneer 45Y91 (CL)	1.61	96	-	-
Pioneer 45Y93 CL	1.76	106	-	-
VICTORY V7002CL	1.26	76	-	-
VICTORY V75-03CL	1.33	80	-	-
Site Mean (t/ha)	1.67	100	1.20	100
CV (%)	5.98		14.90	
Probability	<0.001		0.51	
LSD (t/ha)	0.16		0.27	
Sowing Date	27-Apr-2020		08-May-2020	
Trial Comments	Some low-level shattering due to strong winds across site. Interpret results with caution. These trial results should not be used to make variety selection decisions.		Trial has a high P value (0.5) indicating very low significance of variety effect. Interpret results with caution. These trial results should not be used to make variety selection decisions.	

Table 6: Triazine Canola Trial Yield data.

Region	Mid North	
Locality	Spalding	
Trial ID	CMTA20SPAL5	
Variety Name	tonnes/ha	% Site Mean
ATR Bonito	1.70	102
DG 670TT	1.77	106
Hyola 580CT	1.07	64
Hyola Blazer TT	1.67	100
Hyola Enforcer CT	1.65	99
HyTTec Trident	1.64	99
HyTTec Trifecta	2.07	124
HyTTec Trophy	1.77	106
InVigor T 4510	1.73	104
InVigor T 6010	2.11	126
Monola 420TT	1.27	76
Monola H421TT	1.29	77
Pioneer 44T02 TT	1.55	93
SF Dynatron TT	2.04	123
SF Ignite TT	1.83	110
SF Spark TT	1.64	98
SF Turbine TT	1.86	112
Site Mean (t/ha)	1.67	100
CV (%)	5.96	
Probability	<0.001	
LSD (t/ha)	0.16	
Sowing Date	27-Apr-2020	
Trial Comments	<p>Some low-level shattering throughout trial due to high winds. Interpret results with caution.</p> <p>These trial results should not be used to make variety selection decisions.</p>	

2020 Quarantine Report South Australia Chickpea

Table 7: Desi and Kabuli Chickpea Trial Yield data.

Region	Yorke P		Yorke P	
Locality	Kulpara		Kulpara	
Trial ID	DMDA20KULP5		DMKA20KULP5	
Variety Name	tonnes/ha	% Site Mean	tonnes/ha	% Site Mean
Almaz	-	-	0.60	115
Genesis 090	-	-	0.62	118
Genesis Kalkee	-	-	0.46	89
PBA Magnus	-	-	0.32	62
PBA Monarch	-	-	0.48	92
PBA Royal	-	-	0.59	113
CBA Captain	0.78	102	-	-
Neelam	0.77	101	-	-
PBA Maiden	0.74	97	-	-
PBA Slasher	0.87	114	-	-
PBA Striker	0.82	107	-	-
Site Mean (t/ha)	0.76	100	0.52	100
CV (%)	10.04		14.82	
Probability	0.00		0.02	
LSD (t/ha)	0.12		0.13	
Sowing Date	24-May-2020		24-May-2020	
Trial Comments	Trial not released due to drought and weed competition. These trial results should not be used to make variety selection decisions.		Trial not released due to drought and weed competition. These trial results should not be used to make variety selection decisions.	

2020 Quarantine Report South Australia Field Pea

Table 8: Field Pea Trial Yield data.		
Region	Yorke P	
Locality	Minlaton	
Trial ID	PMaA20MINL5	
Variety Name	tonnes/ha	% Site Mean
GIA Kastar	3.79	91
GIA Ourstar	3.33	80
Kaspa	4.28	103
PBA Oura	4.17	100
PBA Pearl	4.57	109
PBA Percy	4.03	97
PBA Wharton	3.96	95
Site Mean (t/ha)	4.17	100
CV (%)	8.03	
Probability	0.02	
LSD (t/ha)	0.54	
Sowing Date	21-May-2020	
Trial Comments	Trial not to be released due to excessive shattering. These trial results should not be used to make variety selection decisions.	

2020 Quarantine Report South Australia Lentil

Table 9: Lentil Trial Yield data.

Region	Yorke P	
Locality	Maitland	
Trial ID	QMaA20MAIT5	
Variety Name	tonnes/ha	% Site Mean
GIA Leader	3.31	90
Nipper	3.60	97
PBA Ace	3.98	108
PBA Blitz	3.70	100
PBA Bolt	3.73	101
PBA Hallmark XT	3.40	92
PBA Highland XT	3.86	104
PBA Hurricane XT	3.37	91
PBA Jumbo2	4.23	115
PBA Kelpie XT	3.43	93
Site Mean (t/ha)	3.70	100
CV (%)	7.31	
Probability	0.00	
LSD (t/ha)	0.44	
Analysis Date	30-Nov-2020	
Sowing Date	14-May-2020	
Trial Comments	Trial not to be released due to excessive weed competition and shattering. These trial results should not be used to make variety selection decisions.	