

2020 QUARANTINE REPORT



NEW SOUTH WALES

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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 New South Wales Unreleased Trials

Site Description	Name	Trial Code	Sowing Date	Harvest Date	Site Mean Yield	CV Value	P Value
Coonamble	Wheat	WEaA20COOA2	24-Apr-20	18-Nov-20	3.15	9.75	<0.001
Coonamble	Wheat	WMDA20COOA2	12-May-20	18-Nov-20	3.35	6.85	<0.001
Gilgandra	Wheat	WEaA20GILG2	21-Apr-20	04-Nov-20	3.49	6.37	<0.001
North Star	Wheat	WMDA20NORT2	11-May-20	21-Oct-20	3.00	8.20	0.359
Trangie	Wheat	WEaA20TRAN2	07-May-20	25-Nov-20	4.28	6.87	0.00
Bellata	Canola	CMCA20BELL2	23-Apr-20	21-Oct-20	1.48	8.27	0.339
Mullaley	Canola	CMCA20MULL2	27-Apr-20	16-Nov-20	2.83	6.73	0.920
Trangie	Canola	CECA20TRAN2	21-Apr-20	10-Nov-20	1.77	12.18	0.666
Coonamble	Chickpea	DMKA20COOA2	26-May-20	08-Dec-20	2.90	9.89	0.640
Walgett	Chickpea	DMKA20WALG2	27-May-20	17-Nov-20	1.88	11.37	0.820
Tulloona	Faba Bean	FMaA20TULO2	27-Apr-20	21-Oct-20	3.08	7.16	0.291

2020 Quarantine Report New South Wales Wheat.

Table 2: Early Wheat Trial Yield Data.

Region	N/W		N/W		N/W	
Locality	Coonamble		Gilgandra		Trangie	
Trial ID	WEaA20COOA2		WEaA20GILG2		WEaA20TRAN2	
Variety Name	tonnes/ha	% Site Mean	tonnes/ha	% Site Mean	tonnes/ha	% Site Mean
Catapult	3.15	100	3.60	103	4.30	100
Coolah	3.30	105	3.80	109	4.30	100
Coota	3.01	95	3.68	105	4.65	109
Denison	4.24	135	5.02	144	4.24	99
DS Faraday	2.40	76	2.63	76	4.09	96
DS Tull	0.64	20	1.86	53	4.35	101
EG Titanium	2.12	67	2.72	78	4.12	96
EGA Gregory	2.07	66	3.04	87	4.03	94
EGA Wedgetail	-	-	-	-	3.85	90
Illabo	-	-	-	-	3.77	88
Longsword	-	-	-	-	4.87	114
LRPB Beaufort	4.44	141	5.44	156	4.09	95
LRPB Flanker	1.70	54	2.66	76	4.04	94
LRPB Kittyhawk	-	-	-	-	4.11	96
LRPB Lancer	3.33	106	2.96	85	4.72	110
LRPB Nighthawk	5.10	162	3.66	105	4.32	101
LRPB Reliant	0.88	28	1.72	49	4.17	97
LRPB Stealth	3.04	97	3.73	107	4.65	109
RockStar	3.32	105	3.78	108	3.99	93
Sunflex	4.14	131	4.96	142	4.04	94
Sunmax	4.87	154	4.54	130	4.02	94
Site Mean (t/ha)	3.15	100	3.49	1.00	4.28	100
CV (%)	9.75		6.37		6.87	
Probability	<0.001		<0.001		0.00	
LSD (t/ha)	0.50		0.36		0.50	
Sowing Date	24-Apr-2020		21-Apr-2020		07-May-2020	
Trial Comments	WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST. 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. 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.		Trial establishment affected by residual pre-emergent herbicide damage. Interpret results with caution. These trial results should not be used to make variety selection decisions.	

Table 3: Durum Wheat Trial Yield data.

Region	N/E		N/W	
Locality	North Star		Coonamble	
Trial ID	WMDA20NORT2		WMDA20COOA2	
Variety Name	tonnes/ha	% Site Mean	tonnes/ha	% Site Mean
Caparoi	3.04	101	4.11	123
DBA Bindaroi	2.89	96	3.81	114
DBA Lillaroi	3.13	104	2.24	67
DBA Spes	2.95	98	4.13	123
DBA Vittaroi	2.80	93	2.46	73
DBA-Aurora	3.26	109	3.94	118
EGA Bellaroi	2.70	90	3.52	105
Hyperno	2.94	98	3.91	117
Jandaroi	3.04	102	0.95	28
Westcourt	3.17	106	4.19	125
Site Mean (t/ha)	3.00	100	3.35	100
CV (%)	8.20		6.85	
Probability	0.36		<0.001	
LSD (t/ha)	0.39		0.37	
Sowing Date	11-May-2020		12-May-2020	
Trial Comments	<p>Trial has a high P value (0.36) indicating low significance of variety effect. Interpret results with caution. These trial results should not be used to make variety selection decisions.</p> <p>WARNING: THIS TRIAL WAS SEVERELY AFFECTED BY FROST. 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>			

2020 Quarantine Report New South Wales Canola.

Table 4: Conventional Canola Trial Yield data.

Region	N/E		N/E		N/W	
Locality	Mullaley		Bellata		Trangie	
Trial ID	CMCA20MULL2		CECA20BELL2		CECA20TRAN2	
Variety Name	tonnes/ha	% Site Mean	tonnes/ha	% Site Mean	tonnes/ha	% Site Mean
Nuseed Diamond	2.83	100	1.51	102	1.79	101
Nuseed Quartz	2.83	100	1.45	98	1.75	99
Site Mean (t/ha)	2.83	100	1.48	100	1.77	100
CV (%)	6.73		8.27		12.18	
Probability	0.92		0.34		0.67	
LSD (t/ha)	0.16		0.11		0.21	
Sowing Date	27-Apr-2020		23-Apr-2020		21-Apr-2020	
Trial Comments	Trial has a high P value (0.92) indicating low significance of variety effect. Interpret results with caution. These trial results should not be used to make variety selection decisions.		Trial has a high P value (0.34) indicating very low significance of variety effect. Interpret results with caution. These trial results should not be used to make variety selection decisions.		Trial has a high P value (0.66) indicating low significance of variety effect. Interpret results with caution. These trial results should not be used to make variety selection decisions.	

2020 Quarantine Report New South Wales Chickpea

Table 5: Kabuli Chickpea Trial Yield data.

Region	N/W		N/W	
Locality	Coonamble		Walgett	
Trial ID	DMKA20COOA2		DMKA20WALG2	
Variety Name	tonnes/ha	% Site Mean	tonnes/ha	% Site Mean
Almaz	2.87	99	1.95	104
Genesis 090	2.88	99	1.98	105
Genesis Kalkee	2.81	97	1.83	97
PBA Magnus	2.73	94	1.95	104
PBA Monarch	2.76	95	1.99	106
PBA Royal	2.93	101	1.94	104
Site Mean (t/ha)	2.90	100	1.88	100
CV (%)	9.89		11.37	
Probability	0.64		0.82	
LSD (t/ha)	0.53		0.35	
Sowing Date	26-May-2020		27-May-2020	
Trial Comments	Trial has a high P value (0.64) indicating low significance of variety effect. Interpret results with caution. These trial results should not be used to make variety selection decisions.		This trial displayed a degree of variability as indicated by the CV of 11.37% and p-value of 0.082 indicating low significance of variety effect. Interpret results with caution. These trial results should not be used to make variety selection decisions.	

2020 Quarantine Report New South Wales Faba bean

Table 6: Faba Bean Trial Yield data.

State	NSW	
Region	N/W	
Locality	Tulloona	
Trial ID	FMaA20TULO2	
Variety Name	tonnes/ha	% Site Mean
Cairo	2.96	96
Doza	2.96	96
PBA Nanu	2.91	95
PBA Nasma	3.09	100
PBA Warda	3.25	105
Site Mean (t/ha)	3.08	100
CV (%)	7.16	
Probability	0.29	
LSD (t/ha)	0.35	
Sowing Date	27-Apr-2020	
Trial Comments	Trial has a high P value (0.29) indicating low significance of variety effect. Interpret results with caution. These trial results should not be used to make variety selection decisions.	