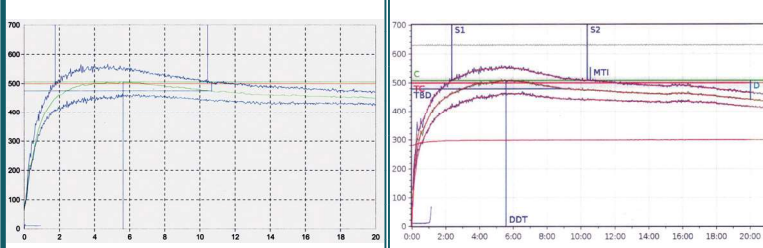
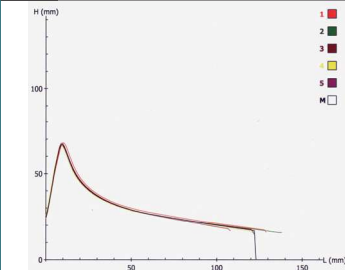
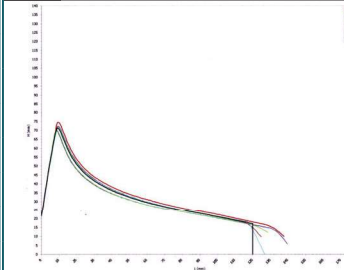
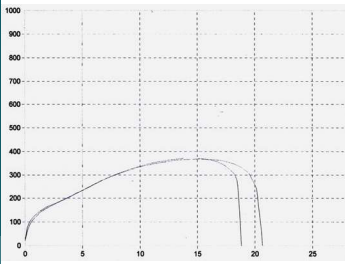
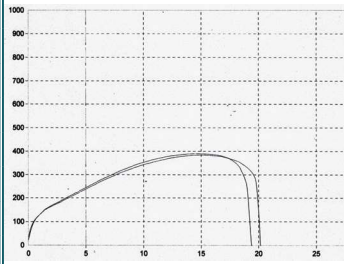
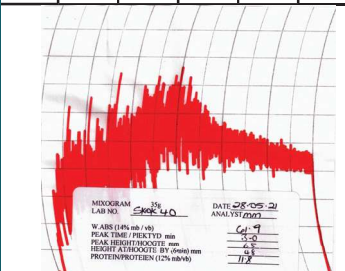
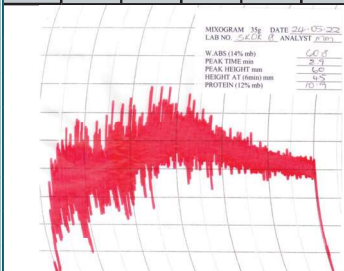


RSA Wheat Crop Quality Summary

RSA Crop Quality 2020/21 and 2021/22 Seasons

Country of origin	RSA Crop Average 2020/21						RSA Crop Average 2021/22					
Class and Grade bread wheat	Super	B1	B2	B3	COW	Average	Super	B1	B2	B3	COW	Average
No. of samples	70	34	31	30	85	250	73	64	46	47	105	335
WHEAT												
GRADING												
Protein (12% mb), %	13.2	12.0	11.0	10.0	11.9	12.0	13.3	12.0	11.0	10.1	12.0	11.9
Moisture, %	11.3	11.0	11.1	11.0	11.1	11.1	11.3	11.2	11.1	11.2	11.1	11.2
Falling number, sec	367	389	403	399	348	372	344	349	366	367	311	341
1000 Kernel mass (13% mb), g	37.3	38.7	39.2	39.3	38.0	38.2	40.1	41.8	42.1	41.8	38.1	40.3
Hlm (dirty), kg/ha	80.8	79.8	79.3	78.0	77.0	78.9	81.2	81.3	79.9	79.8	78.1	79.9
Screenings (<1.8 mm sieve), %	1.07	1.04	1.54	1.55	2.38	1.63	0.69	0.82	0.92	0.91	2.04	1.20
Gravel, stones, turf and glass, %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Foreign matter, %	0.03	0.05	0.04	0.03	0.13	0.07	0.01	0.02	0.04	0.02	0.15	0.06
Other grain & unthreshed ears, %	0.25	0.24	0.40	0.34	0.87	0.49	0.29	0.23	0.42	0.39	1.12	0.57
Heat damaged kernels, %	0.01	0.02	0.01	0.02	0.20	0.08	0.01	0.01	0.00	0.00	0.04	0.01
Immature kernels, %	0.09	0.04	0.01	0.01	0.06	0.05	0.09	0.04	0.02	0.02	0.03	0.04
Insect damaged kernels, %	0.31	0.43	0.47	0.59	0.98	0.61	0.18	0.17	0.28	0.32	0.58	0.34
Sprouted kernels, %	0.13	0.06	0.03	0.01	0.45	0.20	0.09	0.09	0.06	0.04	0.44	0.19
Total damaged kernels, %	0.54	0.54	0.53	0.64	1.69	0.94	0.37	0.31	0.35	0.39	1.08	0.58
Combined deviations, %	1.89	1.86	2.51	2.56	5.07	3.12	1.35	1.39	1.73	1.71	4.39	2.41
Heavily frost damaged kernels, %	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.02	0.00	0.00	0.03	0.01
Field fungi, %	0.57	0.45	0.27	0.25	1.04	0.64	0.44	0.38	0.23	0.17	0.77	0.47
Storage fungi, %	0.01	0.00	0.00	0.00	0.06	0.02	0.00	0.00	0.00	0.00	0.01	0.00
Ergot, %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Poisonous seeds (<i>Crotalaria spp.</i> , etc.)	0	0	0	0	0	0	0	0	0	0	1	0
Poisonous seeds (<i>Argemone mexicana</i> , etc.)	0	0	0	0	0	0	0	0	0	0	0	0
Live insects	No	No	No	No	No	No	No	No	No	No	No	No
Undesirable odour	No	No	No	No	No	No	No	No	No	No	No	No
	Super	B1	B2	B3	COW	Average	Super	B1	B2	B3	COW	Average
No. of samples	21	9	7	5	7	49	19	16	14	8	8	65
Bühler Extraction, %	74.3	74.2	74.3	73.9	73.6	74.1	74.0	74.1	73.7	73.8	73.3	73.9
FLOUR												
Colour, KJ (wet)	-4.7	-4.8	-5.0	-5.0	-4.7	-4.8	-4.9	-5.0	-5.0	-4.9	-4.8	-4.9
Colour, Konica Minolta CM5 (dry)												
L*	93.72	93.91	94.16	94.44	94.03	93.93	93.6	93.73	93.75	93.96	93.55	93.70
a*	0.48	0.46	0.40	0.35	0.39	0.44	0.51	0.48	0.46	0.47	0.49	0.49
b*	9.74	9.89	9.79	9.47	9.87	9.77	9.83	9.89	9.84	9.77	9.91	9.85
Ash (db), %	0.60	0.60	0.60	0.59	0.60	0.60	0.59	0.60	0.61	0.62	0.60	0.60
Protein (12% mb), %	12.3	11.0	10.0	9.6	10.6	11.2	12.3	10.9	10.0	9.1	11.1	10.9
Wet Gluten (14% mb), %	32.8	29.8	26.8	24.1	28.5	29.9	32.5	28.9	26.6	23.4	29.7	28.9
Dry Gluten (14% mb), %	11.4	10.0	8.8	7.9	9.6	10.1	11.0	9.5	8.8	7.8	9.9	9.6
Gluten Index	96	95	95	95	94	95	96	96	96	96	96	96
100 g BAKING TEST												
Baking water absorption, %	62.5	60.9	59.9	59.2	60.5	61.2	62.4	60.8	60.1	59.0	61.1	61.0
Loaf volume, cm ³	1189	1095	1023	958	1043	1104	1150	1064	1018	938	1078	1065
Evaluation (see page 78)	0	0	0	0	0	0	0	0	0	0	0	0
FARINOGRAM												
Water absorption (14% mb), %	60.2	59.2	58.7	57.5	59.0	59.3	61.5	59.9	59.3	58.0	59.6	60.0
Development time, min	6.4	5.2	5.0	4.0	5.0	5.6	7.9	5.3	4.5	4.0	4.9	5.7
Stability, mm	9.2	8.1	7.7	7.8	7.9	8.5	12.2	9.1	8.1	7.3	10.1	9.7
Mixing tolerance index, BU	36	37	39	33	36	36	33	44	48	52	41	42
												

RSA Crop Quality 2020/21 and 2021/22 Seasons

Country of origin	RSA Crop Average 2020/21						RSA Crop Average 2021/22					
Class and Grade bread wheat	Super	B1	B2	B3	COW	Average	Super	B1	B2	B3	COW	Average
No. of samples	21	9	7	5	7	49	19	16	14	8	8	65
ALVEOGRAM												
Strength (S), cm²	43.2	37.1	33.4	30.9	35.2	38.3	51.3	41.1	37.2	33.2	43.2	42.5
Stability (P), mm	75	74	77	77	76	75	89	80	88	85	85	86
Distensibility (L), mm	147	126	111	97	119	129	136	127	108	93	126	121
P/L	0.54	0.62	0.72	0.83	0.67	0.63	0.69	0.66	0.98	0.92	0.69	0.77
												
EXTENSOGRAM												
Strength, cm²	115	97	82	74	91	99	123	108	87	72	106	103
Max. height, BU	390	366	324	315	342	362	426	401	360	346	405	393
Extensibility, mm	217	195	182	170	192	200	215	198	177	152	188	191
												
MIXOGRAM												
Peak time, min	3.0	2.8	2.8	3.2	2.9	2.9	3.0	2.9	2.9	2.9	3.0	2.9
Water absorption (14% mb), %	62.5	60.9	59.9	59.2	60.5	61.2	62.6	60.8	59.8	59.0	61.2	60.9
												
MYCOTOXINS												
Aflatoxin B ₁ (µg/kg)	ND						ND					
Aflatoxin B ₂ (µg/kg)	ND						ND					
Aflatoxin G ₁ (µg/kg)	ND						ND					
Aflatoxin G ₂ (µg/kg)	ND						ND					
Fumonisin B ₁ (µg/kg)	ND						ND					
Fumonisin B ₂ (µg/kg)	ND						ND					
Fumonisin B ₃ (µg/kg)	ND						ND					
Deoxynivalenol (µg/kg) [max. value]	386 [3 088]						169 [1 085]					
Ochratoxin A (µg/kg)	ND						ND					
Zearalenone (µg/kg) [max. value]	ND						4 [144]					
HT-2 (µg/kg)	ND						ND					
T-2 Toxin (µg/kg)	ND						ND					
No. of samples	30						40					