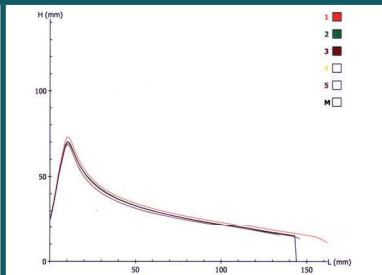
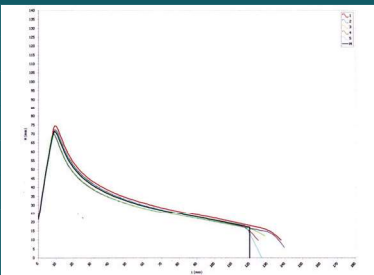
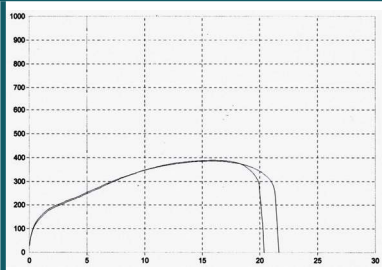
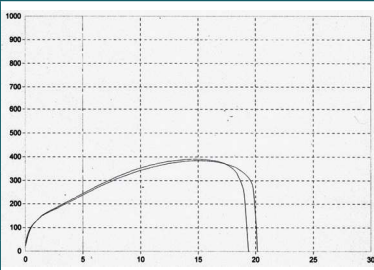
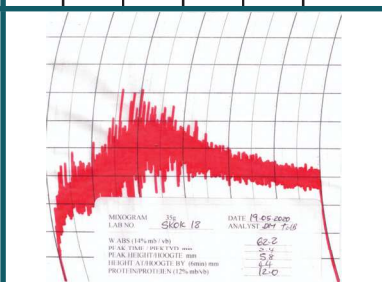
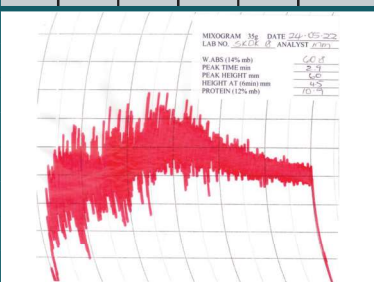


RSA Wheat Crop Quality Summary

RSA Crop Quality 2019/20 and 2021/22 Seasons

Country of origin	RSA Crop Average 2019/20						RSA Crop Average 2021/22						
	Super	B1	B2	B3	COW	Average	Super	B1	B2	B3	COW	Average	
Class and Grade bread wheat													
No. of samples	132	56	25	15	105	333	73	64	46	47	105	335	
WHEAT													
GRADING													
Protein (12% mb), %	13.5	12.0	11.1	12.4	13.2	12.9	13.3	12.0	11.0	10.1	12.0	11.9	
Moisture, %	10.3	10.1	10.1	10.2	10.3	10.2	11.3	11.2	11.1	11.2	11.1	11.2	
Falling number, sec	382	387	355	370	295	353	344	349	366	367	311	341	
1000 Kernel mass (13% mb), g	36.1	38.7	37.8	33.3	33.2	35.6	40.1	41.8	42.1	41.8	38.1	40.3	
Hlm (dirty), kg/ha	80.0	81.3	80.6	77.1	75.9	78.9	81.2	81.3	79.9	79.8	78.1	79.9	
Screenings (<1.8 mm sieve), %	1.31	1.27	1.21	1.56	3.26	1.92	0.69	0.82	0.92	0.91	2.04	1.20	
Gravel, stones, turf and glass, %	0.01	0.01	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
Foreign matter, %	0.10	0.09	0.08	0.06	0.25	0.14	0.01	0.02	0.04	0.02	0.15	0.06	
Other grain & unthreshed ears, %	0.29	0.28	0.32	0.32	0.65	0.41	0.29	0.23	0.42	0.39	1.12	0.57	
Heat damaged kernels, %	0.00	0.00	0.01	0.01	0.08	0.03	0.01	0.01	0.00	0.00	0.04	0.01	
Immature kernels, %	0.07	0.05	0.05	0.01	0.09	0.07	0.09	0.04	0.02	0.02	0.03	0.04	
Insect damaged kernels, %	0.27	0.27	0.18	0.14	0.44	0.31	0.18	0.17	0.28	0.32	0.58	0.34	
Sprouted kernels, %	0.04	0.03	0.09	0.11	3.17	1.03	0.09	0.09	0.06	0.04	0.44	0.19	
Total damaged kernels, %	0.38	0.34	0.34	0.28	3.77	1.44	0.37	0.31	0.35	0.39	1.08	0.58	
Combined deviations, %	2.08	1.98	1.95	2.22	7.93	3.91	1.35	1.39	1.73	1.71	4.39	2.41	
Heavily frost damaged kernels, %	0.03	0.01	0.00	0.00	0.01	0.02	0.00	0.02	0.00	0.00	0.03	0.01	
Field fungi, %	0.11	0.15	0.14	0.07	0.60	0.27	0.44	0.38	0.23	0.17	0.77	0.47	
Storage fungi, %	0.00	0.00	0.00	0.00	0.01	0.00	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		25	13	9	4	18	69	19	16	14	8	8	65
Bühler Extraction, %		74.9	75.7	75.8	74.1	73.7	74.8	74.0	74.1	73.7	73.8	73.3	73.9
FLOUR													
Colour, KJ (wet)		-4.7	-4.9	-4.9	-4.9	-4.3	-4.7	-4.9	-5.0	-5.0	-4.9	-4.8	-4.9
Colour, Konica Minolta CM5 (dry)													
L*		93.54	93.81	93.83	93.99	93.48	93.64	93.6	93.73	93.75	93.96	93.55	93.70
a*		0.50	0.46	0.46	0.40	0.44	0.47	0.51	0.48	0.46	0.47	0.49	0.49
b*		10.35	10.22	10.53	10.32	10.26	10.32	9.83	9.89	9.84	9.77	9.91	9.85
Ash (db), %		0.65	0.65	0.63	0.61	0.63	0.64	0.59	0.60	0.61	0.62	0.60	0.60
Protein (12% mb), %		12.7	11.2	10.3	11.2	12.1	11.9	12.3	10.9	10.0	9.1	11.1	10.9
Wet Gluten (14% mb), %		33.6	29.5	26.6	29.2	31.7	31.1	32.5	28.9	26.6	23.4	29.7	28.9
Dry Gluten (14% mb), %		11.5	9.9	8.8	9.9	10.7	10.6	11.0	9.5	8.8	7.8	9.9	9.6
Gluten Index		95	95	96	96	96	95	96	96	96	96	96	96
100 g BAKING TEST													
Baking water absorption, %		63.2	61.1	60.1	61.3	62.3	62.1	62.4	60.8	60.1	59.0	61.1	61.0
Loaf volume, cm ³		1185	1083	1036	1106	1140	1130	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), %		61.5	60.2	59.0	58.6	59.4	60.2	61.5	59.9	59.3	58.0	59.6	60.0
Development time, min		6.0	5.3	5.4	4.9	4.9	5.4	7.9	5.3	4.5	4.0	4.9	5.7
Stability, mm		8.7	7.5	7.8	8.7	7.7	8.1	12.2	9.1	8.1	7.3	10.1	9.7
Mixing tolerance index, BU		38	41	41	33	48	41	33	44	48	52	41	42

RSA Crop Quality 2019/20 and 2021/22 Seasons

Country of origin	RSA Crop Average 2019/20						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	25	13	9	4	15	69	19	16	14	8	8	65
ALVEOGRAM												
Strength (S), cm ²	47.3	39.8	36.8	40.2	41.3	42.6	51.3	41.1	37.2	33.2	43.2	42.5
Stability (P), mm	83	82	80	74	72	79	89	80	88	85	85	86
Distensibility (L), mm	146	127	117	148	163	143	136	127	108	93	126	121
P/L	0.59	0.68	0.73	0.56	0.50	0.60	0.69	0.66	0.98	0.92	0.69	0.77
												
EXTENSOGRAM												
Strength, cm ²	121	106	98	105	114	112	123	108	87	72	106	103
Max. height, BU	387	382	375	381	383	383	426	401	360	346	405	393
Extensibility, mm	223	201	190	197	216	211	215	198	177	152	188	191
												
MIXOGRAM												
Peak time, min	2.5	2.7	2.8	2.7	2.7	2.6	3.0	2.9	2.9	2.9	3.0	2.9
Water absorption (14% mb), %	63.2	61.1	60.1	61.3	62.4	62.1	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]	<100 [1 017]						169 [1 085]					
Ochratoxin A (µg/kg)	ND						ND					
Zearalenone (µg/kg) [max. value]	<20 [29]						4 [144]					
HT-2 (µg/kg)	ND						ND					
T-2 Toxin (µg/kg)	ND						ND					
No. of samples	40						40					