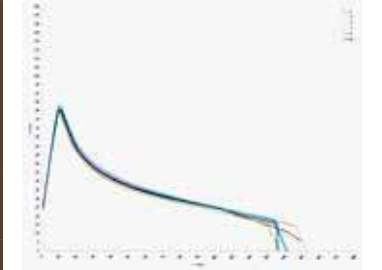
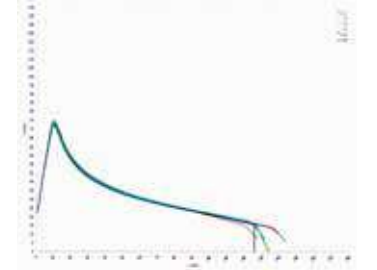
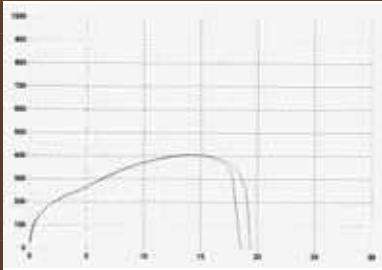
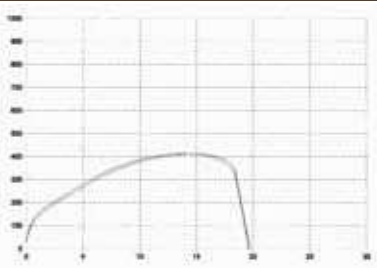
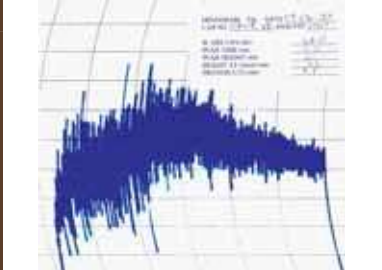
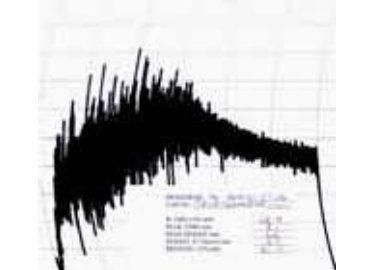


RSA Wheat Crop Quality Summary

RSA Crop Quality 2022/23 and 2023/24 Seasons

Country of origin	RSA Crop Average 2022/23						RSA Crop Average 2023/24						
Class and Grade bread wheat	Super	Gr1	Gr2	Gr3	COW	Average	Super	Gr1	Gr2	Gr3	COW	Average	
No. of samples	103	55	47	35	95	335	64	83	70	33	85	335	
WHEAT													
GRADING													
Protein (12% mb), %	13.2	12.0	11.1	10.3	12.2	12.1	13.3	12.0	11.0	10.4	11.6	11.8	
Moisture, %	11.2	11.2	11.3	11.5	11.2	11.3	10.8	11.1	11.0	11.1	11.2	11.1	
Falling number, sec	370	372	378	374	331	361	378	375	380	373	371	375	
1000 Kernel mass (13% mb), g	36.8	37.4	38.6	39.2	35.4	37.0	38.1	40	40.5	38.7	38.1	39.1	
Hlm (dirty), kg/ha	80.3	80.4	80.7	79.5	78.7	79.8	81.7	80.5	81.6	80.8	79.3	80.7	
Screenings (<1.8 mm sieve), %	1.26	1.21	1.32	1.41	2.72	1.69	1.01	1.24	1.04	1.27	2.37	1.45	
Gravel, stones, turf and glass, %	0.00	0.01	0.01	0.01	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
Foreign matter, %	0.11	0.11	0.11	0.12	0.21	0.14	0.06	0.13	0.10	0.06	0.22	0.13	
Other grain & unthreshed ears, %	0.33	0.36	0.38	0.39	0.78	0.48	0.22	0.32	0.28	0.32	0.93	0.45	
Heat damaged kernels, %	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.03	0.04	0.02	
Immature kernels, %	0.06	0.03	0.04	0.03	0.03	0.04	0.10	0.10	0.06	0.04	0.14	0.09	
Insect damaged kernels, %	0.45	0.48	0.55	0.58	0.66	0.54	0.32	0.35	0.37	0.32	0.56	0.40	
Sprouted kernels, %	0.11	0.07	0.04	0.03	0.42	0.17	0.02	0.02	0.02	0.01	0.03	0.02	
Total damaged kernels, %	0.62	0.58	0.64	0.63	1.11	0.76	0.45	0.48	0.45	0.39	0.76	0.53	
Combined deviations, %	2.32	2.27	2.45	2.55	4.82	3.06	1.75	2.17	1.88	2.04	4.28	2.55	
Heavily frost damaged kernels, %	0.00	0.00	0.01	0.00	0.11	0.03	0.05	0.00	0.04	0.00	0.02	0.02	
Field fungi, %	0.33	0.33	0.16	0.14	0.59	0.36	0.28	0.32	0.22	0.27	0.60	0.36	
Storage fungi, %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Ergot, %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Poisonous seeds (<i>Crotalaria spp.</i> , etc.)	0	0	0	0	0	0	0	0	0	0	0	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	Gr1	Gr2	Gr3	COW	Average	Super	Gr1	Gr2	Gr3	COW	Average
No. of samples	19	17	13	11	5	65	16	20	15	10	4	65	
Bühler Extraction, %	74.4	73.9	73.7	73.1	73.3	73.8	73.2	73.2	72.6	72.1	71.7	72.8	
FLOUR													
Colour, KJ (wet)	-5.0	-5.0	-5.0	-4.9	-5.0	-5.0	-4.8	-4.7	-4.9	-4.8	-4.5	-4.8	
Colour, Konica Minolta CM5 (dry)													
L*	93.6	93.69	93.67	93.76	93.8	93.68	93.62	93.67	93.89	93.82	93.72	93.73	
a*	0.51	0.48	0.47	0.44	0.48	0.48	0.54	0.54	0.50	0.47	0.57	0.52	
b*	10.02	10.26	10.58	9.99	10.23	10.20	10.23	10.01	10.12	10.11	9.66	10.08	
Ash (db), %	0.59	0.60	0.60	0.59	0.59	0.59	0.59	0.61	0.58	0.60	0.61	0.59	
Protein (12% mb), %	12.2	11.1	10.2	9.6	10.9	11.0	12.1	11.1	9.9	9.7	10.4	10.8	
Wet Gluten (14% mb), %	32.9	29.6	27.5	25.6	29.7	29.5	32.4	30.2	26.6	25.6	28.6	29.1	
Dry Gluten (14% mb), %	11.1	9.9	9.1	8.2	9.9	9.8	11.0	9.9	8.5	8.3	9.4	9.6	
Gluten Index	95	96	96	97	96	96	96	96	95	96	96	96	
100 g BAKING TEST													
Baking water absorption, %	62.4	61.0	60.0	59.7	60.9	61.0	62.3	61.0	59.7	59.7	60.3	60.8	
Loaf volume, cm ³	1034	972	916	898	963	966	1140	1068	968	950	970	1038	
Evaluation (see page 78)	0	0	0	0	0	0	0	0	0	0	0	0	
FARINOGRAM													
Water absorption (14% mb), %	60.3	59.7	58.7	58.3	59.2	59.4	61.3	60.3	59.2	58.9	59.5	60.0	
Development time, min	6.5	6.0	4.3	4.2	4.8	5.4	6.7	5.2	5.2	4.5	4.1	5.4	
Stability, mm	15.8	12.9	9.7	10.3	12.4	12.6	14.3	10.5	10.2	9.5	9.5	11.2	
Mixing tolerance index, BU	25	31	37	36	30	31	30	36	36	38	34	35	

RSA Crop Quality 2022/23 and 2023/24 Seasons

Country of origin	RSA Crop Average 2022/23						RSA Crop Average 2023/24					
	Super	Gr1	Gr2	Gr3	COW	Average	Super	Gr1	Gr2	Gr3	COW	Average
Class and Grade bread wheat												
No. of samples	19	17	13	11	5	65	16	20	15	10	4	65
ALVEOGRAM												
Strength (S), cm ²	48.0	42.7	35.6	35.4	40.6	41.4	44.8	40.7	36.0	33.6	37.3	39.3
Stability (P), mm	78	82	78	84	77	80	77	79	84	80	79	80
Distensibility (L), mm	152	130	119	101	137	130	145	129	103	102	116	122
P/L	0.52	0.66	0.72	0.86	0.60	0.66	0.55	0.62	0.88	0.87	0.68	0.71
												
EXTENSOGRAM												
Strength, cm ²	134	108	91	85	113	109	131	115	97	87	104	110
Max. height, BU	454	407	371	384	419	411	422	416	401	351	396	403
Extensibility, mm	218	194	178	159	200	192	227	203	176	177	189	198
												
MIXOGRAM												
Peak time, min	3.1	3.2	3.0	3.4	3.2	3.1	2.9	3.0	3.2	3.0	3.2	3.0
Water absorption (14% mb), %	62.4	61	60	59.5	60.9	60.9	62.3	61.0	59.7	59.7	60.3	60.8
												
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]	757 [6 463]						66 [478]					
15-ADON (µg/kg) [max. value]	46 [301]						ND					
Ochratoxin A (µg/kg)	ND						ND					
Zearalenone (µg/kg) [max. value]	1 [36]						ND					
HT-2 (µg/kg)	ND						ND					
T-2 Toxin (µg/kg)	ND						ND					
No. of samples	40						40					