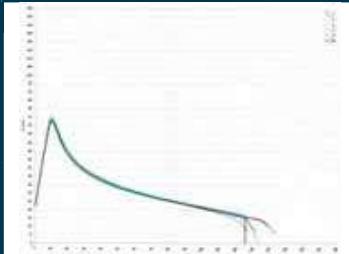
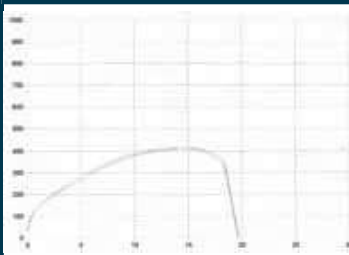
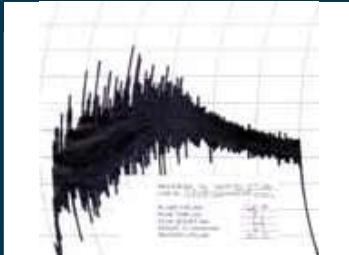
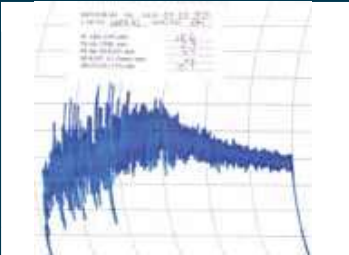


RSA Wheat Crop Quality Summary

RSA Crop Quality 2023/24 and 2024/25 Seasons

Country of origin	RSA Crop Average 2023/24						RSA Crop Average 2024/25					
Class and Grade bread wheat	Super	Gr1	Gr2	Gr3	COW	Average	Super	Gr1	Gr2	Gr3	COW	Average
No. of samples	64	83	70	33	85	335	69	57	43	57	96	322
WHEAT												
GRADING												
Protein (12% mb), %	13.3	12.0	11.0	10.4	11.6	11.8	13.4	11.9	11.0	10.1	11.2	11.6
Moisture, %	10.8	11.1	11.0	11.1	11.2	11.1	10.2	10.4	10.7	10.6	10.7	10.5
Falling number, sec	378	375	380	373	371	375	377	368	371	363	373	371
1000 Kernel mass (13% mb), g	38.1	40	40.5	38.7	38.1	39.1	38.5	38.7	39.2	39.1	37.4	38.4
Hlm (dirty), kg/hl	81.7	80.5	81.6	80.8	79.3	80.7	82.2	81.5	80.4	79.3	78.7	80.3
Screenings (<1.8 mm sieve), %	1.01	1.24	1.04	1.27	2.37	1.45	1.01	0.94	1.24	1.25	2.51	1.52
Gravel, stones, turf and glass, %	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.02	0.01	0.01
Foreign matter, %	0.06	0.13	0.10	0.06	0.22	0.13	0.05	0.05	0.05	0.07	0.15	0.08
Other grain & unthreshed ears, %	0.22	0.32	0.28	0.32	0.93	0.45	0.17	0.27	0.29	0.35	0.94	0.47
Heat damaged kernels, %	0.01	0.01	0.01	0.03	0.04	0.02	0.01	0.00	0.00	0.01	0.04	0.02
Immature kernels, %	0.10	0.10	0.06	0.04	0.14	0.09	0.10	0.06	0.05	0.02	0.04	0.05
Insect damaged kernels, %	0.32	0.35	0.37	0.32	0.56	0.40	0.16	0.19	0.27	0.31	0.69	0.36
Sprouted kernels, %	0.02	0.02	0.02	0.01	0.03	0.02	0.02	0.02	0.01	0.01	0.06	0.03
Total damaged kernels, %	0.45	0.48	0.45	0.39	0.76	0.53	0.29	0.27	0.33	0.34	0.82	0.46
Combined deviations, %	1.75	2.17	1.88	2.04	4.28	2.55	1.53	1.54	1.90	2.02	4.44	2.54
Heavily frost damaged kernels, %	0.05	0.00	0.04	0.00	0.02	0.02	0.02	0.01	0.00	0.00	0.15	0.05
Field fungi, %	0.28	0.32	0.22	0.27	0.60	0.36	0.34	0.31	0.32	0.37	0.53	0.39
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	16	20	15	10	4	65	18	14	14	12	7	65
Bühler Extraction, %	73.2	73.2	72.6	72.1	71.7	72.8	73.0	73.2	73.3	73.6	73.1	73.2
FLOUR												
Colour, Konica Minolta CM5 (dry)												
L*	93.62	93.67	93.89	93.82	93.72	93.73	93.46	93.62	93.72	93.78	93.74	93.64
a*	0.54	0.54	0.50	0.47	0.57	0.52	0.50	0.50	0.48	0.46	0.46	0.49
b*	10.23	10.01	10.12	10.11	9.66	10.08	9.94	9.98	10.05	9.99	9.72	9.96
Ash (db), %	0.59	0.61	0.58	0.60	0.61	0.59	0.61	0.60	0.57	0.60	0.58	0.59
Protein (12% mb), %	12.1	11.1	9.9	9.7	10.4	10.8	12.3	10.9	10.1	9.6	10.2	10.8
Wet Gluten (14% mb), %	32.4	30.2	26.6	25.6	28.6	29.1	34.1	29.2	26.8	25.1	27.0	29.0
Dry Gluten (14% mb), %	11.0	9.9	8.5	8.3	9.4	9.6	11.3	9.5	8.7	8.2	8.8	9.5
Gluten Index	96	96	95	96	96	96	89	92	94	94	94	92
100 g BAKING TEST												
Baking water absorption, %	62.3	61.0	59.7	59.7	60.3	60.8	62.6	60.8	59.9	59.6	60	60.8
Loaf volume, cm³	1140	1068	968	950	970	1038	1112	1007	969	957	964	1014
FARINOGRAM												
Water absorption (14% mb), %	61.3	60.3	59.2	58.9	59.5	60.0	61.9	60.0	59.1	58.1	57.7	59.7
Development time, min	6.7	5.2	5.2	4.5	4.1	5.4	6.2	5.1	5.0	4.1	4.7	5.2
Stability, mm	14.3	10.5	10.2	9.5	9.5	11.2	11.8	10.2	10.0	9.0	9.2	10.3
Mixing tolerance index, BU	30	36	36	38	34	35	34	38	41	42	43	39

Country of origin	RSA Crop Average 2023/24						RSA Crop Average 2024/25					
Class and Grade bread wheat	Super	Gr1	Gr2	Gr3	COW	Average	Super	Gr1	Gr2	Gr3	COW	Average
No. of samples	16	20	15	10	4	65	18	14	14	12	7	65
ALVEOGRAM												
Strength (S), cm²	44.8	40.7	36.0	33.6	37.3	39.3	46.2	39	36.9	32.3	34.0	38.8
Stability (P), mm	77	79	84	80	79	80	82	80	81	72	67	78
Distensibility (L), mm	145	129	103	102	116	122	143	123	117	115	134	127
P/L	0.55	0.62	0.88	0.87	0.68	0.71	0.61	0.66	0.73	0.65	0.51	0.64
												
EXTENSOGRAM												
Strength, cm²	131	115	97	87	104	110	122	105	102	89	99	106
Max. height, BU	422	416	401	351	396	403	406	394	409	374	399	397
Extensibility, mm	227	203	176	177	189	198	217	195	182	174	181	194
												
MIXOGRAM												
Peak time, min	2.9	3.0	3.2	3.0	3.2	3.0	2.7	2.9	2.9	3.0	3.1	2.9
Water absorption (14% mb), %	62.3	61.0	59.7	59.7	60.3	60.8	62.6	60.8	59.9	59.6	60.0	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]	66 [478]						40 [408]					
15-ADON (µg/kg) [max. value]	ND						ND					
Ochratoxin A (µg/kg)	ND						ND					
Zearalenone (µg/kg) [max. value]	ND						ND					
HT-2 (µg/kg)	ND						ND					
T-2 Toxin (µg/kg)	ND						ND					
No. of samples	40						40					