

2008/2009 IMPORTED WHEAT QUALITY - ARGENTINA (1 Oct 2008 to 30 Sep 2009)

2008/2009 Imported Wheat Quality Versus 2008/2009 RSA Wheat Quality

Country of origin	Argentina							RSA Crop Average						
Class and Grade bread wheat	B1	B2	B3	B4	UT	COW	Average	B1	B2	B3	B4	UT	COW	Average
No. of samples	13	10	2	-	34	-	59	126	121	101	49	16	67	480
WHEAT														
GRADING														
Protein (12% mb), %	12.48	11.47	10.87	-	11.59	-	11.74	13.27	12.00	11.25	10.69	12.69	11.54	12.00
Moisture, %	11.0	11.5	11.9	-	11.8	-	11.6	11.5	11.1	11.0	10.9	11.6	11.0	11.2
Falling number, sec	434	446	420	-	432	-	434	364	395	382	346	364	393	378
1000 Kernel mass (13% mb), g	36.0	33.8	33.6	-	32.9	-	33.8	37.5	38.5	39.1	40.6	36.6	37.4	38.3
Hlm (dirty), kg/hl	81.2	78.2	78.0	-	78.1	-	78.8	78.6	77.8	77.2	77.4	76.0	76.4	77.6
Screenings (<1,8mm), %	1.75	2.54	2.83	-	3.68	-	3.03	1.36	1.52	1.74	1.33	2.76	2.77	1.72
Gravel, stones, turf and glass, %	0.00	0.00	0.00	-	0.00	-	0.00	0.00	0.00	0.00	0.01	0.13	0.00	0.01
Foreign matter, %	0.12	0.08	0.07	-	0.08	-	0.09	0.09	0.09	0.08	0.10	0.29	0.17	0.11
Other grain & unthreshed ears, %	0.21	0.14	0.14	-	0.14	-	0.15	0.20	0.24	0.29	0.26	0.32	0.34	0.26
Heat damaged kernels, %	0.01	0.02	0.08	-	0.06	-	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Immature kernels, %	0.03	0.05	0.09	-	0.08	-	0.07	0.12	0.07	0.04	0.05	0.04	0.06	0.07
Insect damaged kernels, %	0.04	0.19	0.20	-	0.21	-	0.17	0.27	0.42	0.46	0.54	4.02	1.13	0.62
Heavily frost damaged kernels, %	0.00	0.00	0.00	-	0.00	-	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00
Sprouted kernels, %	0.04	0.01	0.04	-	0.06	-	0.05	0.10	0.09	0.11	0.10	1.01	0.14	0.13
Total damaged kernels, %	0.12	0.28	0.41	-	0.42	-	0.33	0.49	0.58	0.62	0.75	5.07	1.40	0.85
Combined deviations, %	2.20	3.04	3.45	-	4.32	-	3.61	2.14	2.42	2.71	2.27	8.44	4.49	2.88
Field fungi, %	0.14	0.18	0.13	-	0.21	-	0.19	0.08	0.12	0.09	0.04	0.23	0.12	0.10
Storage fungi, %	0.06	0.01	0.16	-	0.00	-	0.02	0.01	0.01	0.01	0.00	0.04	0.01	0.01
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
Noxious seeds (Crotalaria sp, Datura sp..)	0	0	0	-	0	-	0	0	0	0	0	0	0	0
Noxious seeds (Argemone mexicana..)	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
	B1	B2	B3	B4	UT	COW	Average	B1	B2	B3	B4	UT	COW	Average
No. of samples	13	10	2	-	34	-	59	22	23	22	12	5	16	100
BÜHLER EXTRACTION, %	74.5	73.8	73.7	-	73.7	-	73.9	76.0	76.1	75.7	75.2	75.1	75.2	75.7
FLOUR														
Colour, KJ	-2.1	-1.0	-1.2	-	-0.9	-	-1.2	-1.3	-1.7	-1.7	-1.6	-0.9	-1.5	-1.5
100g BAKING TEST														
Baking water absorption, %	61.1	59.7	59.6	-	59.7	-	60.0	61.9	60.8	60.0	60.0	60.1	60.3	60.7
Loaf volume, cm ³	908	707	680	-	730	-	764	956	909	870	849	926	892	902
Evaluation	1	4	4	-	3	-	3	1	0	0	1	0	0	0
FARINOGRAM														
Water absorption, %	61.2	60.7	60.7	-	60.2	-	60.5	62.2	61.1	60.4	60.9	60.6	60.7	61.1
Development time, min	3.9	1.9	1.6	-	1.9	-	2.3	5.0	4.1	3.6	3.1	3.7	3.8	4.0
Stability, mm	9.2	4.7	2.6	-	5.2	-	5.9	8.6	7.7	7.3	6.8	7.4	7.4	7.6
Mixing tolerance index, BU	39	57	73	-	56	-	53	42	42	44	46	43	45	43

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No. of samples	13	10	2	-	34	-	59	22	23	22	12	5	16	100
ALVEOGRAM														
Strength (S) , cm ²	45.3	38.3	31.3	-	38.0	-	39.4	42.4	38.0	35.6	35.8	36.6	37.2	38.0
Stability (P), mm	98	121	127	-	117	-	114	85	83	82	87	78	82	83
Distensibility (L), mm	94	52	38	-	54	-	62	111	102	95	88	114	101	101
P/L	1.11	2.42	3.47	-	2.32	-	2.11	0.80	0.86	0.93	1.10	0.91	0.94	0.90
EXTENSOGRAM														
Strength, cm ²	108	86	78	-	88	-	92	101	89	83	85	89	90	90
Max. height, BU	403	436	425	-	436	-	428	348	330	330	337	325	340	336
Extensibility, mm	190	138	128	-	141	-	151	201	184	172	174	187	179	183
MIXOGRAM														
Peak time, min	3.0	4.4	4.4	-	4.2	-	4.0	2.5	2.6	2.7	2.7	2.8	2.7	2.6
Absorption, %	61.6	60.2	59.6	-	60.3	-	60.5	62.3	61.0	60.6	60.6	61.4	61.1	61.2
MYCOTOXINS														
Aflatoxin, ppb [max.value]	2.68 [5.00]							1.23 [3.00]						
Deoxynivalenol, ppm [max. value]	0.52 [0.96]							0.47 [3.00]						
Ochratoxin A, ppb [max. value]	0.21 [1.00]							0.03 [1.00]						
No. of samples	19							30						