

Table 5: Regional quality weighted averages

	Winter rainfall area (Western Cape)			Summer rainfall and Irrigation area (Free State)			Irrigation areas			RSA average		
Number of samples per area	161			37			139			337		
Regions	1 - 6			21 - 28			10 - 11, 12 - 20, 33, 34, 35, 36			All		
Hectolitre mass dirty, kg/hl	79.9			81.1			83.1			81.3		
1000 kernel mass (13% mb), g	39.0			36.1			40.2			39.2		
Falling number, sec	392			410			399			397		
Screenings (1.8 mm sieve), %	1.80			1.46			1.07			1.49		
Protein (12% mb), % (WWF)	11.8			13.1			12.1			12.1		
Mixogram peak time, min (Quadromat Junior)	2.8			2.9			2.9			2.8		
<i>Composite samples per class and grade</i>	<i>B1</i>	<i>B2</i>	<i>B3</i>	<i>B1</i>	<i>B2</i>	<i>B3</i>	<i>B1</i>	<i>B2</i>	<i>B3</i>	<i>B1</i>	<i>B2</i>	<i>B3</i>
	<i>B4</i>	<i>UT</i>	<i>COW</i>	<i>B4</i>	<i>UT</i>	<i>COW</i>	<i>B4</i>	<i>UT</i>	<i>COW</i>	<i>B4</i>	<i>UT</i>	<i>COW</i>
<i>Composite samples, n = 70</i>	<i>6</i>	<i>5</i>	<i>4</i>	<i>7</i>	<i>5</i>	<i>1</i>	<i>15</i>	<i>11</i>	<i>6</i>	<i>28</i>	<i>21</i>	<i>11</i>
	<i>3</i>	<i>2</i>	<i>-</i>	<i>1</i>	<i>-</i>	<i>-</i>	<i>3</i>	<i>1</i>	<i>-</i>	<i>7</i>	<i>3</i>	<i>-</i>
Bühler extraction, %	70.2	70.3	70.2	71.3	71.7	74.7	72.1	72.3	71.9	71.5	71.7	71.5
	70.3	70.0	-	67.2	-	-	68.7	72.1	-	69.2	70.7	-
Flour colour, KJ (wet)	-4.4	-4.4	-4.6	-4.3	-4.5	-4.9	-4.6	-4.7	-4.7	-4.5	-4.6	-4.7
	-4.4	-4.6	-	-3.8	-	-	-4.5	-4.4	-	-4.4	-4.5	-
Colour, Konica Minolta CM5 (dry)												
L*	93.89	93.93	94.03	93.52	93.56	93.82	93.78	93.86	93.80	93.74	93.80	93.89
	93.74	94.14	-	93.13	-	-	93.63	93.68	-	93.61	93.99	-
b*	10.07	10.33	10.32	10.21	10.19	11.35	9.94	9.85	9.98	10.04	10.05	10.23
	10.74	9.82	-	10.86	-	-	10.49	9.82	-	10.65	9.82	-
Ash (db), %	0.59	0.60	0.60	0.59	0.62	0.62	0.60	0.60	0.61	0.60	0.60	0.61
	0.61	0.58	-	0.57	-	-	0.63	0.56	-	0.61	0.57	-
Flour protein (12% mb), %	11.6	10.7	9.6	12.0	10.9	9.7	11.8	10.8	9.6	11.8	10.6	9.6
	9.1	11.4	-	13.8	-	-	10.4	11.1	-	10.4	11.3	-

WWF = Whole Wheat Flour

Table 5: Regional quality weighted averages (continue)

	Winter rainfall area (Western Cape)			Summer rainfall and Irrigation area (Free State)			Irrigation areas			RSA average		
Regions	161			37			139			337		
Composite samples per class and grade	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
	B4	UT	COW	B4	UT	COW	B4	UT	COW	B4	UT	COW
Composite samples, n = 70	6	5	4	7	5	1	15	11	6	28	21	11
	3	2	-	1	-	-	3	1	-	7	3	-
Wet gluten (14% mb), %	31.9	28.3	25.0	33.3	29.8	26.8	32.7	28.8	25.9	32.7	28.9	25.6
	24.9	31.6	-	36.9	-	-	31.9	30.8	-	30.1	31.3	-
Dry gluten (14% mb), %	11.0	9.8	8.5	11.2	9.8	8.6	11.0	9.6	8.6	11.0	9.7	8.5
	8.6	10.7	-	12.5	-	-	10.5	10.5	-	10.1	10.6	-
Gluten Index	93	96	97	90	93	90	92	95	96	92	95	96
	98	92	-	96	-	-	94	96	-	96	93	-
Farinogram: Water absorption (14% mb), %	61.1	59.7	58.3	61.9	60.6	58.9	61.8	60.7	59.4	61.6	60.4	58.9
	57.0	60.6	-	63.5	-	-	58.6	62.2	-	58.6	61.1	-
Farinogram: Development time, min	5.0	4.5	4.0	6.0	4.7	4.5	8.8	5.3	4.8	5.4	4.9	4.5
	3.6	4.6	-	6.9	-	-	4.6	4.5	-	4.5	4.5	-
Farinogram: Stability, min	7.6	6.9	6.2	8.3	6.9	5.2	6.8	6.8	6.7	7.4	6.8	6.4
	5.9	7.1	-	10.6	-	-	7.0	6.3	-	7.1	6.8	-
Alveogram: Strength (S), cm ²	38.2	33.1	28.0	41.3	31.8	23.1	37.2	34.0	30.7	38.5	33.2	29.0
	25.3	36.6	-	43.4	-	-	33.1	36.4	-	31.2	36.5	-
Alveogram: P/L	0.80	0.82	0.80	0.84	0.91	0.62	0.69	0.83	0.88	0.75	0.85	0.83
	0.92	0.64	-	0.96	-	-	0.99	0.78	-	0.96	0.68	-
Extensogram: Strength, cm ²	98	83	74	104	89	75	101	93	79	101	90	76
	66	98	-	94	-	-	101	93	-	85	96	-
Mixogram peak time, min	2.5	2.5	2.7	2.6	2.5	2.4	2.5	2.6	2.8	2.5	2.6	2.7
	2.6	2.3	-	2.8	-	-	3.3	2.4	-	3.0	2.3	-
Relationship between protein and bread volume	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX
	EX	EX	-	EX	-	-	EX	EX	-	EX	EX	-

EX = Excellent