

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	132			81			122			335		
Regions	1 - 6			21 - 28			10 - 11, 12 - 20, 29 - 36			All		
Hectolitre mass dirty, kg/hl	79.2			78.8			81.3			79.9		
1000 kernel mass (13% mb), g	40.1			39.7			41.0			40.3		
Falling number, sec	386			288			327			341		
Screenings (1.8 mm sieve), %	1.43			1.49			0.76			1.20		
Protein (12% mb), % (WWF)	11.1			12.2			12.5			11.9		
Mixogram peak time, min (Quadromat Junior)	3.1			3.5			3.2			3.2		
Composite samples per class and grade	<i>Super</i>	<i>B1</i>	<i>B2</i>	<i>Super</i>	<i>B1</i>	<i>B2</i>	<i>Super</i>	<i>B1</i>	<i>B2</i>	<i>Super</i>	<i>B1</i>	<i>B2</i>
	<i>B3</i>	<i>COW</i>		<i>B3</i>	<i>COW</i>		<i>B3</i>	<i>COW</i>		<i>B3</i>	<i>COW</i>	
Composite samples, n = 69	<i>Super</i>	<i>B1</i>	<i>B2</i>	<i>Super</i>	<i>B1</i>	<i>B2</i>	<i>Super</i>	<i>B1</i>	<i>B2</i>	<i>Super</i>	<i>B1</i>	<i>B2</i>
	<i>B3</i>	<i>COW</i>	-	<i>B3</i>	<i>COW</i>	-	<i>B3</i>	<i>COW</i>	-	<i>B3</i>	<i>COW</i>	-
Bühler extraction, %	72.7	72.8	73.3	73.4	74.4	71.8	74.8	74.8	75.1	74.0	74.1	73.7
	73.4	73.0	-	73.8	73.8	-	74.7	73.7	-	73.8	73.3	-
Flour colour, KJ (wet)	-5.0	-5.0	-5.0	-4.9	5.0	-5.0	-5.0	-5.0	-5.0	-4.9	-5.0	-5.0
	-5.0	-5.0	-	-4.7	-4.5	-	-5.0	-4.5	-	-4.9	-4.8	-4.9
Flour colour, Konica Minolta CM-5 (dry)												
	L*	94.05	93.72	94.04	93.34	93.77	93.50	93.62	93.71	93.72	93.60	93.73
	94.14	93.92	-	93.9	92.86	-	93.68	93.06	-	93.96	93.55	-
a*	0.51	0.54	0.47	0.48	0.43	0.42	0.53	0.50	0.47	0.51	0.48	0.46
	0.46	0.46	-	0.41	0.57	-	0.55	0.53	-	0.47	0.49	-
b*	10.02	9.99	9.65	9.95	9.56	9.97	9.71	10.15	9.89	9.83	9.89	9.84
	9.58	9.78	-	10.06	10.43	-	9.88	9.51	-	9.77	9.91	-
Ash (db), %	0.63	0.63	0.62	0.59	0.60	0.61	0.58	0.60	0.61	0.59	0.60	0.61
	0.64	0.60	-	0.57	0.57	-	0.65	0.66	-	0.62	0.60	-

WWF = Whole Wheat Flour

Table 5: Regional quality weighted averages (continue)

Regions	Winter rainfall area (Western Cape)			Summer rainfall and Irrigation area (Free State)			Irrigation areas			RSA average		
	1 - 6			21 - 28			10 - 11, 12 - 20, 29 - 36			All		
Composite samples per class and grade	Super	B1	B2	Super	B1	B2	Super	B1	B2	Super	B1	B2
	B3	COW		B3	COW		B3	COW		B3	COW	
Composite samples, n = 69	3	4	4	6	6	4	10	6	6	19	16	14
	4	5	-	2	2	-	2	1	-	8	8	-
Flour protein (12% mb), %	12.0	10.9	10.1	12.2	10.8	9.8	12.5	11.1	10.2	12.3	10.9	10.0
	9.2	11.2	-	9.3	12.3	-	8.9	12.7	-	9.1	11.1	-
Wet gluten (14% mb), %	32.2	28.4	27.1	31.9	28.1	25.2	33.0	30.0	27.3	32.5	28.9	26.6
	23.1	27.5	-	24.3	33.5	-	23.1	32.6	-	23.4	29.7	-
Dry gluten (14% mb), %	11.0	9.6	9.1	10.7	9.2	8.3	11.2	9.9	8.9	11.0	9.5	8.8
	7.8	9.2	-	7.9	11.2	-	7.5	10.9	-	7.8	9.9	-
Gluten Index	96	97	97	96	96	96	95	95	95	96	96	96
	97	96	-	97	93	-	95	97	-	96	96	-
Farinogram: Water absorption (14% mb), %	61.4	60	59.3	61.4	59.5	60.4	61.6	60.3	58.6	61.5	59.9	59.3
	58.4	59.1	-	58.3	60.8	-	56.9	59.7	-	58.0	59.6	-
Farinogram: Development time, min	5.5	4.4	4.3	8.1	5.4	4.8	8.4	5.9	4.5	7.9	5.3	4.5
	3.5	4.1	-	4.7	4.8	-	4.2	8.6	-	4.0	4.9	-
Farinogram: Stability, min	14.3	9.4	8.9	12.8	9.1	8.7	11.3	8.9	7.2	12.2	9.1	8.1
	7.2	9.5	-	7.6	8.5	-	7.3	16.4	-	7.3	10.1	-
Alveogram: Strength (S), cm ²	45.4	40.9	37.1	51.1	41.3	39.7	53.1	41.1	35.6	51.3	41.1	37.2
	33.1	40.1	-	36.1	43.0	-	30.6	59.0	-	33.2	43.2	42.5
Alveogram: P/L	0.73	0.69	0.78	0.83	0.67	1.74	0.59	0.62	0.61	0.69	0.66	0.98
	0.94	0.77	-	0.85	0.45	-	0.84	0.59	-	0.92	0.69	0.77
Extensogram: Strength, cm ²	117	99	83	119	114	85	127	109	91	123	108	87
	72	90	-	78.0	113	-	69	169	-	72	106	103
Mixogram peak time, min	2.6	2.7	2.7	3.3	3.1	3.1	3.0	2.8	3.0	3.0	2.9	2.9
	2.8	2.8	-	3.1	3.3	-	3.0	3.6	-	2.9	3.00	-
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	-

EX = Excellent