

## REGIONAL QUALITY WEIGHTED AVERAGES

	Winter rainfall area (Western Cape)			Summer rainfall area (Free State)			Irrigation areas			Other Summer rainfall and Irrigation areas			RSA average		
<i>Individual samples n</i>	157			136			108			32			433		
<b>Regions</b>	1 - 6			21 - 28			7, 10 - 12, 14 - 20, 36			30 - 35			All		
<b>Hectolitre mass dirty, kg/hl</b>	80.9			79.8			81.5			81.7			80.7		
<b>1000 kernel mass (13% mb), g</b>	38.2			35.1			40.7			39.5			38.0		
<b>Falling number, sec</b>	412			339			395			442			387		
<b>Screenings (1,8 mm), %</b>	1.65			1.60			1.45			1.36			1.56		
<b>Protein (12% mb), % (ww)</b>	11.6			12.0			11.6			12.1			11.8		
<b>Mixogram peak time, min (Quadromat)</b>	3.0			3.3			2.8			3.1			3.0		
<i>Individual samples per class and grade, n</i>	<i>56</i>	<i>51</i>	<i>22</i>	<i>61</i>	<i>29</i>	<i>15</i>	<i>43</i>	<i>33</i>	<i>17</i>	<i>16</i>	<i>7</i>	<i>7</i>	<i>176</i>	<i>120</i>	<i>61</i>
	<i>11</i>	<i>15</i>	<i>2</i>	<i>15</i>	<i>8</i>	<i>8</i>	<i>12</i>	<i>1</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>0</i>	<i>39</i>	<i>25</i>	<i>12</i>
<i>Composite samples per class and grade, n = 100</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>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>B4</i>	<i>UT</i>	<i>COW</i>
<i>Composite samples, n</i>	<i>5</i>	<i>5</i>	<i>3</i>	<i>8</i>	<i>7</i>	<i>3</i>	<i>10</i>	<i>7</i>	<i>5</i>	<i>5</i>	<i>4</i>	<i>3</i>	<i>28</i>	<i>23</i>	<i>14</i>
	<i>3</i>	<i>5</i>	<i>1</i>	<i>5</i>	<i>2</i>	<i>1</i>	<i>6</i>	<i>0</i>	<i>0</i>	<i>1</i>	<i>1</i>	<i>0</i>	<i>15</i>	<i>8</i>	<i>2</i>
<b>Bühler extraction, %</b>	73.1	73.6	74.0	73.9	73.1	73.3	74.9	75.5	75.5	75.3	74.7	75.9	74.4	74.2	74.8
	72.9	72.5	75.4	73.5	72.0	71.2	74.4	-	-	75.0	75.7	-	73.8	72.8	73.3
<b>Flour colour, KJ</b>	-2.8	-3.0	-3.0	-2.5	-2.3	-2.8	-2.9	-2.9	-3.1	-2.8	-2.6	-2.8	-2.7	-2.7	-3.0
	-3.2	-2.8	-3.0	-2.6	-2.1	-2.9	-2.9	-	-	-1.8	-3.2	-	-2.8	-2.7	-3.0
<b>Flour protein (12% mb), %</b>	11.3	10.4	9.5	11.9	10.7	9.6	11.8	10.7	9.7	11.9	10.1	9.6	11.7	10.5	9.6
	8.7	11.1	9.6	10.0	9.4	9.9	9.5	-	-	10.5	11.1	-	9.6	10.6	9.7
<b>Wet gluten (14% mb), %</b>	31.4	27.8	24.5	32.0	28.7	25.3	32.5	29.6	27.2	31.7	26.7	26.2	32.0	28.4	26.0
	24.6	29.9	24.9	26.6	25.4	26.2	25.7	-	-	29.0	28.0	-	26.0	28.5	25.6
<b>Dry gluten (14% mb), %</b>	10.8	9.8	8.4	11.2	9.9	8.5	11.1	10.3	9.3	11.2	9.1	8.8	11.1	9.8	8.8
	8.6	10.2	8.7	9.1	8.5	9.3	8.7	-	-	9.4	9.9	-	8.8	9.7	9.0
<b>Farinogram:</b>	62.0	61.5	61.1	62.2	61.4	60.7	62.6	61.5	61.5	62.4	60.5	59.9	62.3	61.3	60.9
<b>Water absorption (14% mb), %</b>	59.8	61.3	59.5	60.5	59.4	60.6	60.5	-	-	58.8	60.1	-	60.3	60.7	60.1
<b>Farinogram:</b>	5.1	4.0	2.8	5.6	3.7	2.9	5.6	4.5	3.5	5.9	2.8	3.3	5.6	3.8	3.2
<b>Development time, min</b>	1.9	4.5	4.0	2.9	3.1	2.2	3.0	-	-	4.0	6.2	-	2.8	3.1	4.4
<b>Alveogram:</b>	37.9	32.9	29.1	44.4	38.0	32.3	40.1	32.5	27.6	44.5	34.5	29.7	41.7	34.6	29.4
<b>Strength (S), cm<sup>2</sup></b>	26.5	35.4	27.8	33.3	25.7	33.0	29.2	-	-	26.5	40.8	-	29.8	33.7	30.4
<b>Alveogram:</b>	0.78	1.04	1.21	0.79	0.96	1.10	0.82	0.76	0.87	0.75	0.99	0.77	0.79	0.92	0.97
<b>P/L</b>	1.24	0.86	0.87	0.96	0.98	0.93	0.93	-	-	0.48	0.97	-	0.97	0.90	0.90
<b>Extensogram:</b>	90	75	64	119	94	86	108	87	67	121	92	76	110	87	72
<b>Strength, cm<sup>2</sup></b>	60	89	67	82	65	97	77	-	-	64	117	-	74	86	82
<b>Mixogram peak time, min</b>	2.8	2.9	3.0	3.1	3.2	3.2	2.7	2.7	2.5	3.0	3.2	2.9	2.9	3.0	2.8
	3.4	3.3	2.8	3.1	2.9	3.5	3.0	-	-	2.8	3.8	-	3.1	3.3	3.2
<b>Relationship between protein and bread volume</b>	VG	EX	VG	EX	EX	EX	EX	EX	EX	VG	VG	EX	EX	EX	EX
	VG	G	G	EX	EX	EX	EX	-	-	VG	EX	-	EX	VG	VG

EX = Excellent

VG = Very Good

G = Good