REFERENCES


Agricultural Products Marketing Act (1997), National Department of Agriculture, Pretoria, South Africa.


| Annexe 1.4 |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Population | 1212 | 1256 | 1301 | 1327 | 1354 | 1383 | 1414 | 1444 | 1475 | 1508 | 1541 | 1574 | 1606 |
| Per capita cons. (Kg/yr) | 22.46 | 25.87 | 26.14 | 25.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**TOTAL SUPPLY**

| Domestic Availability | 29.38 | 32.51 | 36.42 | 35.21 | 35.01 | 35.99 | 37.69 | 38.27 | 37.55 | 34.61 | 35.10 | 0.00 | 0.00 |
| Opening stocks | 0.00 | 2.27 | 2.71 | 2.83 | 2.83 | 2.77 | 2.90 | 3.82 | 2.89 | 2.66 | 2.70 | 0.00 | 0.00 |
| monitored | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| unmonitored | 2.27 | 2.71 | 2.83 | 2.83 | 2.77 | 2.90 | 3.82 | 2.89 | 2.66 | 2.70 | 0.00 | 0.00 | 0.00 |
| Gross Harvest | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**Imports**

| 29.38 | 30.24 | 33.71 | 32.38 | 32.18 | 33.22 | 34.79 | 34.45 | 34.66 | 31.95 | 32.40 | 0.00 | 0.00 |
| Commercial | 29.38 | 30.24 | 33.71 | 32.38 | 32.18 | 33.22 | 34.79 | 34.45 | 34.66 | 31.95 | 32.40 | 0.00 | 0.00 |
| Food Aid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**TOTAL UTILIZATION**

| 29.67 | 35.21 | 38.90 | 36.92 | 0.12 | 0.15 | 0.38 | 0.26 | 0.27 | 0.55 | 0.40 | 0.00 | 0.00 |
| Domestic Utilization* | 27.23 | 32.49 | 34.01 | 34.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Food Use | 27.23 | 32.49 | 34.01 | 34.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Feed Use | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Uses & Losses | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Exports | 0.17 | 0.02 | 2.05 | 0.09 | 0.12 | 0.15 | 0.38 | 0.26 | 0.27 | 0.55 | 0.40 | 0.00 | 0.00 |
| Closing Stocks | 2.27 | 2.71 | 2.83 | 2.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Monitored | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Unmonitored | 2.27 | 2.71 | 2.83 | 2.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Unbalanced Residual | -0.29 | -2.70 | -2.48 | -1.71 | 34.89 | 35.84 | 37.31 | 38.02 | 37.28 | 34.06 | 34.70 | 0.00 | 0.00 |

| Per capita annual availability of Calories, Protein & Fat |
|---------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Per capita cons. (Kg) | 22.46 | 25.87 | 26.14 | 25.62 | 0.00 | 0.00 | 0.00 | 0.00 |
| Calories/Day | 206.18 | 237.42 | 239.93 | 235.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| Proteins:G/Day | 39.54 | 45.53 | 46.01 | 45.10 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fats:G/Day | 0.54 | 0.62 | 0.63 | 0.62 | 0.00 | 0.00 | 0.00 | 0.00 |

All Rice statistics derived, exports from CSO trade data per calendar year

Rice consumption: Half the popn for 156 days @ 288grams a meal

Food composition source: C.E. West, F. Pepping &C.R. Temaliwa (1988)  The composition of foods Commonly eaten in East Africa. Published by Wageningen Agricultural University, Wageningen, Netherlands on behalf of CTA and ECSA.


Bouet, A. (2006). What can the Poor expect from Trade Liberalization: Opening the “Black Box” of Trade Modelling, IFPRI, Washington DC, USA.


Food Balance Sheets 1995-2001(2005), SADC.


Hertel, T.W. et al. (1997). ‘Regionalism in World Food Markets; Implications for Trade and Welfare,’ Purdue University, West Lafayette, Indiana, USA. Paper Presented at the XX11 IAAE Conference, Sacramento, California, USA.


Impact of the Uruguay Round on Agriculture (1995), Food and Agriculture Organization, Rome, Italy.


Intensifying Action Against HIV/AIDS in Africa: Responding to a Development Crisis (1999), World Bank, Washington, USA.


Key Indicators of Poverty in South Africa (1995), Reconstruction and Development Programme, Office of the President, South Africa.


McDonald, S. and Walmsley, T. (1991). *Bilateral Free Trade Agreements and Customs Unions: The Impact of the EU-South Africa Free Trade Agreement on Botswana*. Global Trade Analysis Project, Purdue University, Purdue, USA.


Poverty and Hunger: Issues and Options for Food Security in Developing Countries (1986), World Bank, Washington, USA.


Paper presented at the XXIII IAAE Conference, Sacramento, California, USA.


The Macro-Economic Impact of Imports of Livestock Products and Relative Cost Competitiveness (1997). Animal Feed Manufacturers Association, Rivonia, South Africa,

*Sunday Times* May 10(1998), South Africa.

*The Strait Times (August 9, 1993)*, Singapore.


The Doha Declaration (2001), WTO Ministerial Conference, Qatar.


World Economic Outlook (2000), International Monetary Fund, Washington, USA.

World Food Summit(1996), Food and Agriculture Organization, Rome, Italy.

World Food Summit (2001), Food and Agriculture Organization, Rome, Italy.
World Trade Organization (1999), The World Trade Brief, Seattle, Washington, USA.

World Trade Organization (2001), Doha Development Agenda, Doha, Qatar.

World Trade Organization (2003), Negotiations on Agriculture, Geneva, Switzerland.


World Trade Organization (2005), Ministerial Declaration, Hong Kong.


## ANNEXURES

### Annexe1.1

**Botswana**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>(Units in 000's tons)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Population</td>
<td>1212</td>
<td>1256</td>
<td>1301</td>
<td>1327</td>
<td>1354</td>
<td>1383</td>
<td>1414</td>
<td>1444</td>
<td>1475</td>
<td>1508</td>
<td>1541</td>
<td>1574</td>
<td>1606</td>
</tr>
<tr>
<td>Per capita cons. (Kg/yr)</td>
<td>76.51</td>
<td>91.72</td>
<td>81.34</td>
<td>83.47</td>
<td>100.04</td>
<td>70.38</td>
<td>76.71</td>
<td>90.08</td>
<td>86.97</td>
<td>80.64</td>
<td>87.26</td>
<td>68.43</td>
<td>82.17</td>
</tr>
<tr>
<td><strong>TOTAL SUPPLY</strong></td>
<td>130.70</td>
<td>162.40</td>
<td>149.10</td>
<td>142.70</td>
<td>133.76</td>
<td>125.96</td>
<td>133.76</td>
<td>155.75</td>
<td>150.62</td>
<td>135.77</td>
<td>145.15</td>
<td>123.09</td>
<td>5.00</td>
</tr>
<tr>
<td>Domestic Availability</td>
<td>32.60</td>
<td>54.80</td>
<td>55.30</td>
<td>53.70</td>
<td>30.90</td>
<td>25.75</td>
<td>35.60</td>
<td>21.50</td>
<td>24.80</td>
<td>21.29</td>
<td>21.17</td>
<td>17.24</td>
<td>10.22</td>
</tr>
<tr>
<td>Opening stocks</td>
<td>25.00</td>
<td>35.00</td>
<td>43.50</td>
<td>39.20</td>
<td>27.90</td>
<td>21.50</td>
<td>24.80</td>
<td>21.29</td>
<td>21.17</td>
<td>17.24</td>
<td>10.22</td>
<td>6.41</td>
<td>7.57</td>
</tr>
<tr>
<td>monitored</td>
<td>25.00</td>
<td>35.00</td>
<td>43.50</td>
<td>39.20</td>
<td>27.90</td>
<td>21.50</td>
<td>24.80</td>
<td>21.29</td>
<td>21.17</td>
<td>17.24</td>
<td>10.22</td>
<td>6.41</td>
<td>7.57</td>
</tr>
<tr>
<td>unmonitored</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Gross Harvest</td>
<td>7.60</td>
<td>19.80</td>
<td>11.80</td>
<td>14.50</td>
<td>3.00</td>
<td>4.25</td>
<td>10.80</td>
<td>2.30</td>
<td>19.51</td>
<td>11.62</td>
<td>1.12</td>
<td>9.35</td>
<td>5.00</td>
</tr>
<tr>
<td>Imports</td>
<td>98.10</td>
<td>107.60</td>
<td>93.80</td>
<td>89.00</td>
<td>130.60</td>
<td>100.21</td>
<td>98.16</td>
<td>132.16</td>
<td>109.94</td>
<td>106.91</td>
<td>133.81</td>
<td>107.33</td>
<td>0.00</td>
</tr>
<tr>
<td>Commercial</td>
<td>98.10</td>
<td>107.60</td>
<td>89.80</td>
<td>89.00</td>
<td>127.60</td>
<td>96.91</td>
<td>98.16</td>
<td>132.16</td>
<td>109.94</td>
<td>106.91</td>
<td>133.81</td>
<td>107.33</td>
<td>0.00</td>
</tr>
<tr>
<td>Food Aid</td>
<td>0.00</td>
<td>0.00</td>
<td>4.00</td>
<td>0.00</td>
<td>3.00</td>
<td>3.30</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>TOTAL UTILIZATION</strong></td>
<td>130.70</td>
<td>162.40</td>
<td>149.10</td>
<td>142.70</td>
<td>133.76</td>
<td>125.96</td>
<td>133.76</td>
<td>155.75</td>
<td>150.62</td>
<td>135.77</td>
<td>145.15</td>
<td>123.09</td>
<td>5.00</td>
</tr>
<tr>
<td>Domestic Utilization</td>
<td>95.70</td>
<td>118.89</td>
<td>109.21</td>
<td>114.31</td>
<td>139.79</td>
<td>100.45</td>
<td>111.94</td>
<td>134.23</td>
<td>132.39</td>
<td>125.50</td>
<td>138.75</td>
<td>111.15</td>
<td>136.19</td>
</tr>
<tr>
<td>Food Use</td>
<td>92.73</td>
<td>115.20</td>
<td>105.82</td>
<td>110.77</td>
<td>135.46</td>
<td>108.47</td>
<td>130.07</td>
<td>128.29</td>
<td>121.61</td>
<td>134.46</td>
<td>107.70</td>
<td>131.97</td>
<td>0.00</td>
</tr>
<tr>
<td>Feed Use</td>
<td>0.96</td>
<td>1.19</td>
<td>1.09</td>
<td>1.14</td>
<td>1.40</td>
<td>1.00</td>
<td>1.12</td>
<td>1.34</td>
<td>1.32</td>
<td>1.26</td>
<td>1.39</td>
<td>1.11</td>
<td>1.36</td>
</tr>
<tr>
<td>Other Uses &amp; Losses</td>
<td>2.01</td>
<td>2.50</td>
<td>2.29</td>
<td>2.40</td>
<td>2.94</td>
<td>2.11</td>
<td>2.35</td>
<td>2.82</td>
<td>2.78</td>
<td>2.64</td>
<td>2.90</td>
<td>2.33</td>
<td>2.86</td>
</tr>
<tr>
<td>Exports</td>
<td>0.00</td>
<td>0.01</td>
<td>0.49</td>
<td>0.00</td>
<td>0.21</td>
<td>0.71</td>
<td>0.53</td>
<td>0.35</td>
<td>0.99</td>
<td>0.05</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Closing Stocks</td>
<td>35.00</td>
<td>43.50</td>
<td>39.20</td>
<td>27.90</td>
<td>21.50</td>
<td>24.80</td>
<td>21.29</td>
<td>21.17</td>
<td>17.24</td>
<td>10.22</td>
<td>6.41</td>
<td>7.57</td>
<td>0.00</td>
</tr>
<tr>
<td>Monitored</td>
<td>35.00</td>
<td>43.50</td>
<td>39.20</td>
<td>27.90</td>
<td>21.50</td>
<td>24.80</td>
<td>21.29</td>
<td>21.17</td>
<td>17.24</td>
<td>10.22</td>
<td>6.41</td>
<td>7.57</td>
<td>0.00</td>
</tr>
<tr>
<td>Unmonitored</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Unbalanced Residual</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>-0.01</td>
<td>4.37</td>
<td>-131.19</td>
<td>0.00</td>
</tr>
</tbody>
</table>

Per capita annual availability of Calories, Protein & Fat

| Per capita cons. (Kg) | 76.51 | 91.72 | 81.34 | 83.47 | 100.04 | 70.38 | 76.71 | 90.08 | 86.97 | 80.64 | 87.26 | 68.43 | 82.17 |
| Calories/Day | 723.20 | 866.97 | 768.84 | 788.98 | 945.60 | 665.24 | 725.08 | 851.40 | 822.08 | 762.24 | 824.75 | 646.78 | 776.69 |
| Proteins/G/Day | 186.25 | 223.28 | 198.00 | 203.19 | 243.52 | 171.32 | 186.73 | 219.26 | 211.71 | 196.30 | 212.40 | 166.57 | 200.03 |

Food composition source: C.E. West, F. Pepping & C.R. Temaliwia (1988)  *The composition of foods Commonly eaten in East Africa.* Published by Wageningen Agricultural University, Wageningen, Netherlands on behalf of CTA and ECSA.

### Annexe 1.2

#### WHEAT

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Population (1,000's tons)</td>
<td>1212</td>
<td>1256</td>
<td>1301</td>
<td>1327</td>
<td>1354</td>
<td>1383</td>
<td>1414</td>
<td>1444</td>
<td>1475</td>
<td>1508</td>
<td>1541</td>
<td>1574</td>
<td>1606</td>
</tr>
<tr>
<td>Per capita cons. (Kg/yr)</td>
<td>36.51</td>
<td>47.99</td>
<td>42.16</td>
<td>50.75</td>
<td>52.91</td>
<td>48.77</td>
<td>51.20</td>
<td>44.91</td>
<td>42.83</td>
<td>56.80</td>
<td>17.29</td>
<td>51.57</td>
<td>0.00</td>
</tr>
</tbody>
</table>

#### TOTAL SUPPLY

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic Availability</td>
<td>69.27</td>
<td>77.00</td>
<td>83.30</td>
<td>97.00</td>
<td>105.30</td>
<td>95.90</td>
<td>95.51</td>
<td>94.90</td>
<td>110.52</td>
<td>103.33</td>
<td>113.42</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Opening stocks</td>
<td>10.00</td>
<td>23.60</td>
<td>14.80</td>
<td>26.70</td>
<td>27.50</td>
<td>31.20</td>
<td>26.30</td>
<td>20.79</td>
<td>29.83</td>
<td>29.71</td>
<td>22.07</td>
<td>62.26</td>
<td>0.00</td>
</tr>
<tr>
<td>Domestic Utilization</td>
<td>69.27</td>
<td>77.00</td>
<td>83.30</td>
<td>97.00</td>
<td>105.30</td>
<td>95.90</td>
<td>95.51</td>
<td>94.90</td>
<td>110.52</td>
<td>103.33</td>
<td>113.42</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Food Use</td>
<td>44.25</td>
<td>60.27</td>
<td>54.85</td>
<td>67.35</td>
<td>71.64</td>
<td>67.44</td>
<td>72.40</td>
<td>64.85</td>
<td>63.17</td>
<td>85.66</td>
<td>26.64</td>
<td>81.18</td>
<td>0.00</td>
</tr>
<tr>
<td>Feed Use</td>
<td>0.46</td>
<td>0.62</td>
<td>0.57</td>
<td>0.70</td>
<td>0.74</td>
<td>0.70</td>
<td>0.75</td>
<td>0.67</td>
<td>0.65</td>
<td>0.88</td>
<td>0.27</td>
<td>0.84</td>
<td>0.00</td>
</tr>
<tr>
<td>Other Uses &amp; Losses</td>
<td>0.96</td>
<td>1.31</td>
<td>1.19</td>
<td>1.46</td>
<td>1.55</td>
<td>1.46</td>
<td>1.57</td>
<td>1.41</td>
<td>1.37</td>
<td>1.86</td>
<td>0.58</td>
<td>1.76</td>
<td>0.00</td>
</tr>
<tr>
<td>Food Aid</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Imports</td>
<td>59.27</td>
<td>53.40</td>
<td>68.50</td>
<td>70.30</td>
<td>77.80</td>
<td>64.70</td>
<td>69.21</td>
<td>76.00</td>
<td>65.07</td>
<td>80.81</td>
<td>81.26</td>
<td>51.16</td>
<td>0.00</td>
</tr>
<tr>
<td>Commercial</td>
<td>59.27</td>
<td>53.40</td>
<td>68.50</td>
<td>70.30</td>
<td>77.80</td>
<td>64.70</td>
<td>69.21</td>
<td>76.00</td>
<td>65.07</td>
<td>80.81</td>
<td>81.26</td>
<td>51.16</td>
<td>0.00</td>
</tr>
<tr>
<td>Food Source</td>
<td>10.00</td>
<td>23.60</td>
<td>14.80</td>
<td>26.70</td>
<td>27.50</td>
<td>31.20</td>
<td>26.30</td>
<td>20.79</td>
<td>29.83</td>
<td>29.71</td>
<td>22.07</td>
<td>62.26</td>
<td>0.00</td>
</tr>
<tr>
<td>Opening stocks</td>
<td>10.00</td>
<td>23.60</td>
<td>14.80</td>
<td>26.70</td>
<td>27.50</td>
<td>31.20</td>
<td>26.30</td>
<td>20.79</td>
<td>29.83</td>
<td>29.71</td>
<td>22.07</td>
<td>62.26</td>
<td>0.00</td>
</tr>
<tr>
<td>Gross Harvest</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Gross Harvest</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Imports</td>
<td>59.27</td>
<td>53.40</td>
<td>68.50</td>
<td>70.30</td>
<td>77.80</td>
<td>64.70</td>
<td>69.21</td>
<td>76.00</td>
<td>65.07</td>
<td>80.81</td>
<td>81.26</td>
<td>51.16</td>
<td>0.00</td>
</tr>
<tr>
<td>Commercial</td>
<td>59.27</td>
<td>53.40</td>
<td>68.50</td>
<td>70.30</td>
<td>77.80</td>
<td>64.70</td>
<td>69.21</td>
<td>76.00</td>
<td>65.07</td>
<td>80.81</td>
<td>81.26</td>
<td>51.16</td>
<td>0.00</td>
</tr>
<tr>
<td>Food Source</td>
<td>10.00</td>
<td>23.60</td>
<td>14.80</td>
<td>26.70</td>
<td>27.50</td>
<td>31.20</td>
<td>26.30</td>
<td>20.79</td>
<td>29.83</td>
<td>29.71</td>
<td>22.07</td>
<td>62.26</td>
<td>0.00</td>
</tr>
<tr>
<td>Closing Stocks</td>
<td>23.60</td>
<td>14.80</td>
<td>26.70</td>
<td>27.50</td>
<td>31.20</td>
<td>26.30</td>
<td>20.79</td>
<td>29.83</td>
<td>29.71</td>
<td>22.07</td>
<td>62.26</td>
<td>28.35</td>
<td>0.00</td>
</tr>
<tr>
<td>Unmonitored</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

#### Per capita annual availability of Calories, Protein & Fat

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Calories/Day</td>
<td>330.12</td>
<td>433.86</td>
<td>381.14</td>
<td>458.84</td>
<td>478.35</td>
<td>440.89</td>
<td>462.95</td>
<td>406.01</td>
<td>387.20</td>
<td>513.55</td>
<td>156.31</td>
<td>466.28</td>
<td>0.00</td>
</tr>
<tr>
<td>Proteins/G/Day</td>
<td>108.53</td>
<td>142.64</td>
<td>125.31</td>
<td>150.85</td>
<td>157.27</td>
<td>144.95</td>
<td>152.20</td>
<td>133.48</td>
<td>127.30</td>
<td>168.84</td>
<td>51.39</td>
<td>153.30</td>
<td>0.00</td>
</tr>
<tr>
<td>Fats/G/Day</td>
<td>5.35</td>
<td>7.03</td>
<td>6.18</td>
<td>7.44</td>
<td>7.76</td>
<td>7.15</td>
<td>7.51</td>
<td>6.58</td>
<td>6.28</td>
<td>8.33</td>
<td>2.53</td>
<td>7.56</td>
<td>0.00</td>
</tr>
</tbody>
</table>

Food composition source: C.E. West, F. Pepping & C.R. Temaliliwa (1988) The composition of foods Commonly eaten in East Africa. Published by Wageningen Agricultural University, Wageningen, Netherlands on behalf of CTA and ECSA.

### Annexe 1.3

#### SORGHUM

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Population</td>
<td>1212</td>
<td>1256</td>
<td>1301</td>
<td>1327</td>
<td>1354</td>
<td>1414</td>
<td>1444</td>
<td>1475</td>
<td>1508</td>
<td>1541</td>
<td>1574</td>
<td>1606</td>
<td></td>
</tr>
<tr>
<td>Per capita cons. (Kg/yr)</td>
<td>69.75</td>
<td>37.45</td>
<td>53.33</td>
<td>50.14</td>
<td>48.44</td>
<td>36.50</td>
<td>45.88</td>
<td>59.10</td>
<td>76.13</td>
<td>28.01</td>
<td>24.01</td>
<td>27.91</td>
<td>0.00</td>
</tr>
</tbody>
</table>

#### TOTAL SUPPLY

- **Domestic Availability**
  - Opening stocks: 31.00
    - Monitored: 31.00
    - Unmonitored: 0.00
  - Gross Harvest: 97.20
- **Imports**
  - Commercial: 21.10
  - Food Aid: 11.03
- **TOTAL UTILIZATION**
  - Domestic Utilization: 87.24
    - Food Use: 84.54
    - Feed Use: 0.87
    - Other Uses & Losses: 1.83
  - Exports: 0.09
- **Closing Stocks**
  - Monitored: 73.00
  - Unmonitored: 0.00
- **Unbalanced Residual**: 0.00

#### Per capita annual availability of Calories, Protein & Fat

- **Per capita cons. (Kg/yr)**
  - Calories/Day: 69.75
  - Proteins/G/Day: 198.68
  - Fats/G/Day: 17.42

---

**Source:** National Early Warning System (1988/2001), Ministry of Agriculture, Botswana, 2001

---

Food composition source: C.E. West, F. Pepping & C.R. Temaliwa (1988) The composition of foods Commonly eaten in East Africa. Published by Wageningen Agricultural University, Wageningen, Netherlands on behalf of CTA and ECSA.