ESSENTIAL ACTIONS TO MEET QUALITY REQUIREMENTS OF HIDES, SKINS AND SEMI-PROCESSED LEATHER FROM AFRICA

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Acknowledgement

The authors gratefully acknowledge the sponsorship and financial grant from the Common Fund for Commodities for conducting this study. Numerous people in Tanzania, Zimbabwe, the Sudan and Senegal provided information in one form or another during field visits. A list of people and firms visited is given in the annexe. The authors are grateful to them. However, the authors alone are responsible for the content of the report.
Summary and Recommendations

Background and objectives of the study

Livestock products – meat, milk, eggs, wool, hides and skins – on average account for 28% of agricultural GDP of sub-Saharan African countries, with wide variation between countries (citation needed). Hides and skins account for a significant portion of the value of livestock output and for some countries it is an important source of foreign exchange earning. However, it is generally observed that the full potential of hides and skins as a product is not realised in most countries because of several reasons, the most important being low quality of the product produced with consequent poor demand in both domestic manufacturing industries and in the export market.

In order to have a better understanding of the problems of hides and skins production, marketing and trade in Africa, the Common Fund for Commodities (CFC) sponsored this study to undertake case studies in selected countries to make a rapid assessment of the factors contributing to poor quality of hides and skins produced and suggest possible actions for improving quality to meet the needs of domestic and export markets. The needs of the importing countries will be determined by a similar study in selected countries. The specific objectives of this study are:

1) To identify issues of animal husbandry including herd and disease management, feed quality and availability, which affect quality of hides and skins.
2) To identify issues related to slaughtering and flaying techniques, practices and facilities (organized slaughter houses vs scattered slaughtering), which cause damage to hides and skins.
3) To identify issues related to techniques and procedures used at various stages in the processing chain from slaughtering to finished products that affect quality.
4) To identify issues related to organization of slaughterhouses and butcheries, regulations and policies for management of slaughterhouses and butcheries that affect quality.
5) To identify issues related to pricing system of hides and skins that affect quality.
6) To identify issues related to marketing and investment infrastructure and environment that affect quality of output.
7) To identify issues related to skills and training that may be related to quality.
8) Based on the identified issues on various aspects, make appropriate recommendations to alleviate them to meet the needs of the importers.

The case studies have been conducted in Tanzania, Zimbabwe, the Sudan and Senegal. These countries were chosen on the basis of recommendation of the CFC to represent different regions of Africa and different sizes of livestock populations, different economic structure and organization of the hides and skins sector. It is expected that these case studies will provide a general understanding of the nature of the problems, some actions that may be
taken in the short-run and also a basis for a more detailed study involving a larger number of countries for identification of more specific problems and solutions.

In conducting the case studies, secondary information were collected through literature search and visiting the selected countries to discuss with key informants, stakeholders, and government officials (slaughter houses, tanneries, leather industry managers and workers; rural and urban domestic traders in hides in skins; exporters in hides and skins; chamber of commerce representatives; farmers, finance and investment offices; education and training institutions imparting leather technology training; government officials responsible for control and inspection of meat, and hodes and skins production, etc).

**Production and trade in hides and skins**

Africa occupies a relatively low position in production and trade in hides and skins within the global leather industry in spite of its significant livestock population and low labour cost. In general terms, this is a reflection of the leather sector weakness in the various stages of leather production cycle starting with, animal husbandry; slaughter facilities; preservation and processing. Perhaps the most significant factor influencing production of hides and skins is the “cultural factor” in livestock rearing which discourage commercial farming/slaughtering and lay emphasis on numbers of animals maintained by a farmer as a sign of wealth. The major challenge facing the industry is how to overcome these weaknesses and exploit fully the opportunities presented by the availability of hides and skins as a readily available renewable resource.

Generally, trade in African hides and skins is hampered by amongst others the poor image of the sector in overseas markets and lack of information flow when approached from the Market side. Trade approached from the production side is affected negatively by poor prices obtained at the producer level and subsequent poor quality of raw materials.

The solution lies in strengthening commercialisation of all activities within the value chain of hides and skins sector. Production of Hides and skins at the primary level in the rural areas starts with a butcher or individual farmer in a community. In urban centres slaughter takes place mostly in organised slaughter houses or abattoirs of varying degree of mechanisation. The Hides and Skins at the rural level enter the value chain mostly through small traders who in turn sell to bigger traders. This process is repeated with each step resulting in value-addition until the raw materials are sold to a raw hides and skins exporter or to a tanner. Trade is normally quite unstable with fluctuating market prices characterised by a lot of price differentials between materials of different origin. In addition the nature of trade is also influenced by the position adopted by a country in liberalising or restricting trade in hides and skins. In those countries where there are raw hides and skins export restrictions you will find that usually trade is in the hands of a few players where as in liberalised economies the number of players involved in this trade is large.
Factors influencing quality

Several reasons may contribute to low quality output. First, poor animal husbandry including inadequate and poor quality feeds, inadequate parasite and disease management, and branding with hot iron for identification purposes may lead to low quality of hides and skins. Second, a good proportion of hides and skin produced may be of poor quality, especially those produced in rural areas outside organized slaughter houses, due to inappropriate slaughtering, flaying, collection and initial processing methods used leading to spoilage and rejection in the market. Third, technology used at various stages in the processing chain from raw hides to finished leather products may be inappropriate or poor leading to poor quality products. Fourth, investment in both technology, infrastructure (physical, financial, information) and skill of manpower engaged in the sector may be very low in comparison to the need and potential leading to poor quality output. The situation in the four countries studied is summarised below.

Production and Exports of Hides and Skins:

**Issues related to Animal husbandry and disease management**

The overall performance of the livestock sector in Africa is greatly influenced by animal husbandry practice as well as the disease management in many African countries. Generally this is tied to the structural weaknesses in the communal areas which hinder the full exploitation of benefits which can be derived from livestock rearing. Culture is also a major factor especially the tradition of keeping livestock as a sign of wealth, which discourages commercialisation of livestock and livestock products. The major issues noted during the study related to Animal Husbandry and Disease Management are:

- **Unreliable pasture availability**
- **Lack of efficient veterinary disease control and extension services**
- **Absence of organised marketing system for livestock and livestock products.**

The guiding principle in overcoming the above mentioned constraints is to promote commercialisation of livestock rearing and linking this to slaughter facilities and the market of meat and hides and skins.

**Issues related to slaughtering facilities and practices**

The study has identified that most animals in the four African countries are slaughtered in facilities which do not have adequate infrastructure or tools required to ensure production of good quality hides and skins. The level of skills and technique used during slaughter also vary widely. The key issues noted related to slaughtering facilities and practices are:

- **Poor enforcement of existing legislation on the meat industry governing minimum requirements for slaughterhouses and slaughter slabs.**
- **Lack of adequate slaughter facilities in designated slaughterhouses where the height of the abattoir may be a limitation;** lack of hoists; lack of proper flaying knives and hide pullers in most cases are unavailable.

- **Perceived high fee charged to butchers when they slaughter in supervised abattoirs.**

- **Inadequate infrastructure where slaughterhouses are located and in homesteads; for instance lack of piped water.**

The prevailing tradition of most slaughter especially of small stock being done during various social occasions means that the slaughter takes place in homesteads. In situations where adequate commercial channels have not been established to purchase materials produced at this level, there is low recovery of hides and skins produced. The butchers also in majority of cases obtain low prices and this influences the efforts they put in taking care of quality of raw hides and skins during and after slaughter. In countries like Sudan where removal of small stock skins is by blowing and pulling is practiced, the quality of raw skins is generally high immediately after slaughter but poor preservation practice leads to lower grades.

**Issues related to Hides & Skins Processing and Manufacturing**

Hides and Skins are processed into leather and subsequently manufactured into different finished leather products such as shoes, handbags etc. Tanning is the process of converting raw hides and skins into leather. There are two forms of leather processing which can be characterised as conventional modern leather processing in tanneries and traditional tanning using vegetable tannins in pits along the major rivers. Traditional tanning is practiced mainly in Sudan and Senegal among the countries studied and involves processing skins into leather for artisanal products and praying mats. The volumes of raw hides and skins used for this purpose are low and of less economic significance. However, modern leather processing has different facets related to it’s economic significance in terms of foreign exchange earnings and creation of employment opportunities. The issues related to Hides & Skins processing and manufacturing are;

- **Lack of backward and forward linkages in the African leather sector.**
  In most African countries the leather industry has been established as an export based industry of semi-processed raw hides and skins without long term strategy linking it to the development of finished leather manufacture or manufacture of leather products. The development of this sector has been initiated from the production side because of the availability of raw hides and skins.

- **Access to technology**
  The African leather sector suffers from lack of requisite technical skills and access to current technology. This situation is tied to the concentration of leather processing at the initial stage of wet-blue leather and exports of raw
materials. Most tanneries were initially started with reconditioned equipment and rarely invest in new equipment and technologies. As a result the sector’s performance is constrained by the technology used and this is reflected in lower quality and low productivity.

- **Environmental issues**

  Leather industrial sector has been identified closely with generation of air, liquid, and solid waste pollution. This has created a negative public image and therefore tanneries are expected to invest in Effluent Treatment Plants (ETPs) as well as in other forms of waste disposal. In order to meet the regulations set in those countries where pollution control is being enforced, the industry is forced to invest heavily in pollution abatement.

**Issues related to Investment and Macro-economic policy**

There is considerable variation amongst African countries on existing Investment and Macro-economic policies. Most African countries rely on agriculture as the mainstay of the economy and investment/ macro-economic policies are based primarily on livestock or plant resources. Hides and skins are a renewable resource and while there is no specific investment promotion for the leather industrial sector on it’s own in the countries studied, the sector has been identified as a priority sector for industrial development. In the case of Sudan and Tanzania macro-economic policy has been put in place to promote processing of leather in the country by levying duty on raw exports of 15% and 2% respectively. This is the trend taken by other African countries with some countries like Ethiopia banning exports of raw hides and skins. The key issues related to investment and macro-economic policy are:

- **Privatisation of the leather industry**

  Many African Governments participated in the leather trade through establishment of parastatal bodies which carried out the business of hides and skins and tanning. There has been a major withdrawal of the state and state owned bodies from being direct players in the industry and assuming a new role as facilitators.

- **Impact of trade liberalisation**

  Trade liberalisation has been introduced in many African countries without instituting appropriate legislative, legal and regulatory framework which would safe guard domestic industry from unfair competition. The leather sector has been adversely affected in many cases where dumping of cheap footwear and second leather products is common.

  On the positive side there has been more effective markets competition in most countries as well as reduced government regulation in the economies.
- Financial considerations

There has been a gradual easing of foreign exchange restrictions which has influenced the direction of trade in Hides & Skins as a foreign exchange earner. This development has created awareness of the importance of hides and skins as a commodity amongst hides and skins traders. There is therefore a competitive environment evolving as traders try to earn foreign exchange. At the same time the need to have cheap capital in order to invest in tanneries and leather products factories has become greater.
Table 1.1: Summary of constraints and recommended actions to solve

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<tr>
<th>Animal Husbandry related</th>
<th>Main problems</th>
<th>Recommended actions</th>
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| 1. Unreliable pasture availability | - Poor nutrition  
- Use of poor branding methods  
- Scratches on animal skins and hides e.g. from horn rakes | - Promote commercialisation of livestock rearing.  
- Develop and promote programs on livestock feeds and upgrading of pasture quality.  
- Create awareness on the importance and value of hides and skins amongst pastoral communities.  
- Improve veterinary extension service  
- Create and promote efficient livestock and livestock products trading channels. |
| 2. Lack of efficient veterinary disease control and extension services | - High calf mortality  
- Heavy infestation by ticks and other ecto-parasites. | |
| 3. Absence of Organised marketing system for livestock and Livestock products. | - Undervaluing and unfair compensation to farmers by middlemen  
- Lack of commercial purpose for rearing Livestock; rearing done as a sign of wealth and selling only in cases of emergencies. | |

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<tr>
<th>Slaughter facilities and practises related issues</th>
<th>Main problems</th>
<th>Recommended actions</th>
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| 4. Poor enforcement of existing legislation on the meat industry governing minimum requirements for slaughterhouses and slaughter slabs. | - Rubbed grain, bad pattern and flay cuts, scores or gouge  
- High levels of rejects and defects in hides and skins.  
- Lack of designated collection points leading to high expenses for collection of hides and skins. | - Promote centralised slaughtering by enforcing existing legislation especially in urban centres where kill is high.  
- Municipalities and Councils should charge fees commensurate with service rendered.  
- Improve and upgrade slaughter facilities and tools including installation of hide pullers whenever possible.  
- Launch awareness campaign and training of butchers, flayers, traders as well as hides and skins extension workers on flaying and preservation techniques. |
| 5. Lack of adequate slaughter facilities in designated slaughterhouses where the height of abattoir may be a limitation; lack of hoists; lack of proper flaying knives and hide pullers in most cases are unavailable. | |
| 6. Perceived high fee charged to butchers when they slaughter in abattoirs | |
| 7. Inadequate infrastructure where slaughterhouses are located and in homesteads; for instance lack of piped water | |

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<td></td>
<td>• There is no compensation for high quality by the parties up the chain thus no incentive by the butcher at the lower level to produce high quality hides &amp; skins.</td>
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<td></td>
<td>• Lack of a common grading or accreditation system.</td>
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<td></td>
<td>• Weak and uncompetitive leather processing industry in many countries.</td>
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<td></td>
<td>• Initiate programs promoting purchase of hides and skins according to quality.</td>
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<td></td>
<td>• Introduce common grading standards such as the CFC/ESALIA standard for raw hides and skins.</td>
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<td></td>
<td>• Promote utilization of leather processing capacity.</td>
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| 9. Access to Technology | • During handling and preservation of hides of skins; Grain cracks, Bacterial damage and framing defects are a major problem. |
| | • During storage, packaging and transportation; Scratches and tearing, wetting, contamination, infestation are major problems. |
| | • Introduce better handling and preservation techniques through training. |

| 10. Environmental issues | • Water pollution due to dumping of waste into rivers. |
| | • Air pollution; mainly from hydrogen sulphide gas, ammonia, and the bad odour emanating mainly from tanneries. |
| | • Poor management of solid waste from tanneries. |
| | • Promote Cleaner Production methods in leather processing. |
| Macro economic policy environment | 11. Privatisation of the leather industry | • In general most enterprises where Government has not divested are inefficient due to slow decision making process. | • Government should complete divesture in those enterprises which remain partially or wholly Government owned |

| 12. Impact of trade liberalisation | | • High costs of operations due to non conducive trade environment. E.g. Unfair competition from cheap Asian imports • Exports of Raw hides and skins leading to lack of raw materials for the local tanneries and leather companies. • Low value addition due to high costs of processing. • Low capacity utilisation and closures of companies. | • Studies should be carried out to assess the impact of trade liberalisation. • Measures should be introduced to create a level playing field in leather trade. • Promote higher utilization of existing tanning capacities by discouraging exports of raw materials through enactment of tariff barriers. |

| 13. Financial considerations | | • High cost of capital • Unavailability of credit • High requirements by lending institutions. | • Promote foreign investment and Joint ventures in order to attract cheaper capital |

| Manpower and skills | 14. Few training institutions for the Leather sector. 15. Poorly equipped and outdated technology in the existing training institutions. 16. Lack of employees’ skills upgrading and poor compensation for high skills by companies. 17. Low investment in research and Development by companies | • Employees’ inefficiency; low productivity and low quality. • Shortage of trained manpower • High levels of obsolescence and redundancy. | • Upgrade/rehabilitate existing training institutions. • Initiate relevant capacity building in technical skills in hides and skins as well as leather technology |
**Hides and Skins Production, Trade and Related Issues in the Case Study Countries**

1. **Background and Objectives of the Study**

Livestock products – meat, milk, eggs, wool, hides and skins – on average account for 28% of agricultural GDP of sub-Saharan African countries, with wide variation between countries (ILRI, 2000). Hides and skins account for a significant portion of the value of livestock output and for some countries it is an important source of foreign exchange earning. However, it is generally observed that the full potential of hides and skins as a product is not realised in most countries because of several reasons, the most important being low quality of the product produced with consequent poor demand in both domestic manufacturing industries and in the export market.

Traditionally, hides and skins have always been important in Africa’s rural setting as the leather made was used for several basic needs including clothing. The traditional requirements have changed over time and are now limited to minimal consumption of raw materials by artisans specialising in making of vegetable tanned leather products such as mats. Most of the raw hides and skins produced in Africa are exported either in raw form or as semi-processed leather and constitute an important source of foreign exchange. Meat being the primary product, the importance of hides and skins on a live animal has never been fully appreciated, although this situation is improving such as in Senegal and the Sudan. The quality of raw hides and skins is therefore not fully considered as an important issue by farmers and efforts are not directed at safeguarding it’s quality during the animal’s lifetime, during slaughter as well as in the handling and preservation of the raw materials. As a result Sub-Saharan African countries do not realize the full benefit from these important renewable livestock resources.

Livestock rearing in Africa is done under very diverse conditions varying from open Savannah grasslands, organised commercial farms, zero and semi-zero grazing. The quality of products obtained from livestock reared in these varying environments is directly influenced by these conditions. In the case of hides & skins the quality and yield of leather obtained from such animals is dependent on these factors. The hides and skins produced in Africa generally carry a poor image in the global markets because of various constraints found through out the production chain starting with animal husbandry conditions, lack of slaughter facilities, inappropriate flaying, and poor handling and preservation of these raw materials.

The Common Fund for Commodities (CFC) usually provides funds for commodity development, especially to developing countries, for export promotion and poverty alleviation. Hides and skins is a CFC designated commodity, which is handled by the FAO Committee on Commodity Problems through the Sub-Group on Hides and Skins under the Intergovernmental Group on Meat (FAO, 2001). However, assistance for commodity development needs to be based on objective assessment of the nature of the problems and possible solutions. In order to alleviate the problems with respect of hides and skins production, marketing and trade in Africa, the purpose of this study is to undertake case studies in selected countries to make a rapid assessment of the factors contributing to poor quality of hides and skins produced and suggest possible actions for improving quality to meet the needs of domestic and export markets. The needs of the importing countries will be determined by a similar study in selected countries. The specific objectives of this study are:
1. To identify issues of animal husbandry including herd and disease management, feed quality and availability, which affect quality of hides and skins.
2. To identify issues related to slaughtering and flaying techniques, practices and facilities (organized slaughter houses vs scattered slaughtering), which cause damage to hides and skins.
3. To identify issues related to techniques and procedures used at various stages in the processing chain from slaughtering to finished products that affect quality.
4. To identify issues related to organization of slaughterhouses and butcheries, regulations and policies for management of slaughterhouses and butcheries that affect quality.
5. To identify issues related to pricing system of hides and skins that affect quality.
6. To identify issues related to marketing and investment infrastructure and environment that affect quality of output.
7. To identify issues related to skills and training that may be related to quality.
8. Based on the identified issues on various aspects, make appropriate recommendations to alleviate them to meet the needs of the importers.

The case studies have been conducted in Tanzania, Zimbabwe, the Sudan and Senegal. These countries were chosen on the basis of recommendation of the CFC to represent different regions of Africa and different size and economic structure. For example, in 2000, Tanzania, Zimbabwe, the Sudan and Senegal had population of 34, 12, 29.6 and 10 million respectively; they had per capita gross domestic product of US$ 280, 480, 320 and 500, respectively, of which 45, 11, 39 and 18% respectively were derived from the agriculture sector (World Bank, 2002). The size of livestock population and organization of the hides and skins sector also differ between these countries which will be discussed in more detail later. It is expected that these case studies will provide a general understanding of the nature of the problems, some actions that may be taken in the short-run and also a basis for a more detailed study involving a larger number of countries for identification of more specific problems and solutions.

In conducting the case studies, secondary information were collected through literature search and visiting the selected countries to discuss with key informants, stakeholders and government officials (slaughter houses, tanneries, leather industry managers and workers; rural and urban domestic traders in hides in skins; exporters in hides and skins; chamber of commerce representatives; farmers, finance and investment offices; education and training institutions imparting leather technology training; government officials responsible for control and inspection of meat, and hides and skins production).

The report is organised as follows. In section 2, a brief description of production and trade of hides and skins in Africa in the global context is presented. In section 3, hides and skins production and trade in the case study countries is discussed. In section 4, factors influencing quality of hides and skin production in the case study counties are discussed. In section 5, current structure and operational status of the hides and skins processing industry and related issues is presented. In section 6, investment environment and macroeconomic policies affecting the hides and skins sector are discussed. In section 7, recent initiatives for improving the hides and skins sector and further actions needed are recommended.
2. Hides and Skins Production and Trade in Africa in the Global Context

Africa accounts for about 16, 2, 30 and 22% of world cattle, buffalo, goat and sheep populations, respectively (Table 2.1). During 1995-2001, African populations of these species of animals increased at faster rates compared to the world population increases. In the case of sheep, world population has actually declined while African population has increase by 2.25% annually. However, African shares of world meat output of these species of animals are about 7, 8, 23 and 15% respectively, which are very low compared to the shares of the respective populations. The main reasons for this are that African animals are low productive and the off-take rates are also very low. Although animals are kept for milk and meat, for draft power and manure for crop production, as forms of wealth and saving, and for many social functions, sales are not regular nor do they occur at optimal age to make efficient use of feed resources. Instead, animals are generally sold at times of need for cash and in times of crop failure or other forms of emergency or natural disasters.

Table 2.1. African share of world population of cattle, buffalo, goats and sheep, and production of fresh hides and skins (1995-2001 average)

<table>
<thead>
<tr>
<th></th>
<th>Cattle</th>
<th>Buffalo</th>
<th>Goats</th>
<th>Sheep</th>
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<tbody>
<tr>
<td>Population</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Million head</td>
<td>1336.3</td>
<td>219.5</td>
<td>162.1</td>
<td>3.2</td>
</tr>
<tr>
<td>% share of Africa</td>
<td>- 16.4</td>
<td>- 16.4</td>
<td>- 2.0</td>
<td>- 2.0</td>
</tr>
<tr>
<td>Annual growth rate (%)</td>
<td>0.25</td>
<td>2.26</td>
<td>0.59</td>
<td>2.75</td>
</tr>
<tr>
<td>Meat production</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Qty. 000mt</td>
<td>55,518</td>
<td>3,716</td>
<td>2,968</td>
<td>256</td>
</tr>
<tr>
<td>% share of Africa</td>
<td>- 6.7</td>
<td>- 6.7</td>
<td>- 8.6</td>
<td>- 8.6</td>
</tr>
<tr>
<td>Annual growth rate (%)</td>
<td>0.79</td>
<td>3.11</td>
<td>2.00</td>
<td>9.05</td>
</tr>
<tr>
<td>Fresh hides/ skins production</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantity, 000mt</td>
<td>7151</td>
<td>556</td>
<td>789</td>
<td>23</td>
</tr>
<tr>
<td>% share of Africa</td>
<td>- 7.8</td>
<td>- 7.8</td>
<td>- 2.9</td>
<td>- 2.9</td>
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<tr>
<td>Annual growth rate (%)</td>
<td>1.40</td>
<td>2.34</td>
<td>1.31</td>
<td>4.62</td>
</tr>
</tbody>
</table>

Source: FAOSTAT, 2002

African shares of world hides and skins production are also low compared to the shares of animal populations (Table 2.1). Africa shares only about 8, 3, 18 and 10% of world cattle hides, buffalo hides, goat skins and sheep skins production respectively. The main reasons for lower shares of hides and skins in relation to the animal populations are low off-take rates, lower yield (African animals being smaller in size hides/skins yields are lower) and non-
collection of significant number of hides and skins, especially from animals slaughtered in rural areas. Slaughtering in organized slaughter houses and mechanized abattoirs is still negligible in most African countries. Also, live animal export, especially of sheep and goats, from the Horn of Africa region to the Middle East is of considerable importance, and hides and skins of these animals are perhaps not counted in the Africa account.

During 1995-2001, beef, lamb and buffalo meat production in Africa increased at higher rates than the overall global production growth rates, and similar was the case for growth rates in hides and skins production (Table 2.1). Overall, global hides and skins production increased at 1.32% annually while in Africa the growth rate was 2.22%. It has been projected that in the future demand for meat will grow more rapidly in the developing countries due to rapid population and income growth and urbanization while consumption in the developed countries will stagnate or will grow very slowly as the current level of consumption is already very high. It has been projected that consumption of meat in sub-Saharan Africa will increase from about 5 million tones in 1993 to 12 million tones in 2020 due to rapidly increasing population and urban growth and a modest increase in per capita income (Delgado et al., 1999). Most of this demand growth is expected to be met from domestic production – higher population as well as higher off-take rates. Therefore, this is likely to increase Africa’s share of hides and skins production as well.

About 35-40% of global production of hides and skins are internationally traded, the remainder are processed domestically for various uses and export as leather products. During 1994-1999, Africa accounted for about 4.5% of annual global exports of hides and skins and African exports grew annually at the rate of 0.23% compared to a global export growth of –0.25% (FAOSTAT, 2002). The leather industry has gone through a sluggish period following the collapse of the newly emerging East Asian economies and the Russian economy as these were major producers and consumers of leather products, especially shoes which utilise about 60% of finished leather. Also, the global leather industry is increasingly demanding high quality hides and skins, so countries capable of producing high quality hides and skins or capable of consistently improving quality remained active in the export market even in the sluggish period. The poor quality of African hides and skins, and the lack of capabilities to catch up with the increasing demand for better quality in the export market has forced African export of the products to remain low. However, the recent economic recovery in the East Asian countries and the rapid growth in China have helped to revitalize the global market and there has been supply shortfalls in several years (Table 2.2).

<table>
<thead>
<tr>
<th>Year</th>
<th>Total supply (million sqft)</th>
<th>Total demand (million sqft)</th>
<th>Balance (million sqft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1989</td>
<td>15,121</td>
<td>15,143</td>
<td>-22</td>
</tr>
<tr>
<td>1990</td>
<td>15,929</td>
<td>15,621</td>
<td>208</td>
</tr>
<tr>
<td>1992</td>
<td>16,760</td>
<td>16,789</td>
<td>-29</td>
</tr>
<tr>
<td>1994</td>
<td>17,838</td>
<td>17,981</td>
<td>-143</td>
</tr>
<tr>
<td>1996</td>
<td>18,997</td>
<td>18,972</td>
<td>24</td>
</tr>
<tr>
<td>2000</td>
<td>21,591</td>
<td>21,700</td>
<td>-109</td>
</tr>
</tbody>
</table>

Source: Lendell Mills Commodities Studies, quoted in (Kiruthu et al., 2000)
In the past, most countries especially in the developed world used most of the hides and skins domestically as raw materials for the leather industry. During the last two decades, three major changes have occurred in the industry that has changed its structure and operational mechanism, which had a negative effect on the African leather industry.

First, the leather industry produces a huge amount of wastes that creates environmental pollution. A global estimate indicates 32% of the wastes in the industry are generated by the leather manufacture, especially wet blue processing stage, and another 59% by the footwear manufacturing sector (Table 3). Of these the wastes generated by the leather manufacture stages are environmentally more damaging. Therefore in recent years environmental considerations are receiving increased attention from both the market and government authorities in the development of the leather industry. Responding to these considerations require substantial investment in effluent treatment plants. Enforcement of these requirements are much more strict in the developed countries, so the investors there have partly responded to this problem by relocating industries in selected developing countries where environmental regulations are not very strict and there is skilled manpower to produce high quality products but costs are lower. Moreover, market liberalisation in these countries encouraged foreign investment directly or through joint ventures. This strategy has helped them to externalize the environmental problem, at least temporarily, while allowing them to produce quality products at a competitive cost. The working of this strategy is partly demonstrated by the fact that China alone produces 39% of the leather industry wastes and other Asian countries produce another 23% while west Europe produces only 14% (Table 2.3). However, Africa did not benefit much yet from this industry relocation strategy of the west mainly because of the low quality raw materials produced and lack of skills to enable footwear and leather goods manufacturers to produce good quality products.

Table 2.3: Wastes generated by the leather industry

<table>
<thead>
<tr>
<th>Source of wastes</th>
<th>World total Qty 000 tons/yr</th>
<th>% share by country/region</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>China</td>
</tr>
<tr>
<td>Leather manufacture</td>
<td>806</td>
<td>13</td>
</tr>
<tr>
<td>Footwear manufacture</td>
<td>1479</td>
<td>47</td>
</tr>
<tr>
<td>Leather goods manufacture</td>
<td>115</td>
<td>85</td>
</tr>
<tr>
<td>Leather garments manufacture</td>
<td>51</td>
<td>55</td>
</tr>
<tr>
<td>Leather gloves manufacture</td>
<td>34</td>
<td>82</td>
</tr>
<tr>
<td>Total</td>
<td>2485</td>
<td>39</td>
</tr>
</tbody>
</table>

Source: CTC, 2000

Second, in the past many countries exercised restrictive policies, e.g., export ban on raw and wet blue hides, export incentive for manufactured products, import restrictions on finished products like shoes, to make maximum use of raw materials domestically through value added processing and meet domestic demand for leather products. Also in many countries the leather processing and manufacturing enterprises have been under public sector ownership, and most ran inefficiently producing low quality products and made losses. The globalisation process since the 1980s gradually changed that situation. Market liberalization and privatization policies are being implemented so that there are few restrictions on exports of raw materials and imports of finished products. Therefore, raw materials, especially of better
quality, are being increasingly exported rather than utilizing in the domestic industries (Table 2.4). Better prices in the world market for raw hides compared to that offered by the local industry is another attraction for export. This explains the slightly higher African export growth of hides and skins compared to the world export growth rate, as mentioned earlier, although the share of total export still remains very low.

Table 2.4: African share of world exports of hides and skins (1994-2000 average)

<table>
<thead>
<tr>
<th></th>
<th>World export</th>
<th>Share of Africa (%)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Qty, 000mt</td>
<td>Value, US$000</td>
<td>Qty</td>
</tr>
<tr>
<td>Total hides and skins*</td>
<td>2765</td>
<td>6566</td>
<td>3.1</td>
</tr>
<tr>
<td>Wet-salted cattle hides</td>
<td>1810</td>
<td>3146</td>
<td>1.6</td>
</tr>
<tr>
<td>Dry-salted cattle hides</td>
<td>86</td>
<td>122</td>
<td>10.5</td>
</tr>
<tr>
<td>Dry-salted sheep skins</td>
<td>45</td>
<td>234</td>
<td>24.4</td>
</tr>
<tr>
<td>Dry-salted goat skins</td>
<td>22</td>
<td>39</td>
<td>20.0</td>
</tr>
<tr>
<td>Wet-salted goat skins</td>
<td>4</td>
<td>9</td>
<td>45.0</td>
</tr>
<tr>
<td>Sheep skins with wool</td>
<td>252</td>
<td>467</td>
<td>4.8</td>
</tr>
</tbody>
</table>

* Includes other types of hides/skins not included in the table so sum of components may not add to total

Source: FAOSTAT, 2002

However, a comparison of the African share of export value compared to her share of export volume for different types of hides and skins indicate that in spite of better prices for raw hides in the world market, Africa is loosing by exporting raw hides. For example, share of wet-salted cattle hides export value is lower than its share of export volume while for some other export categories, export value share is higher than export volume share. This is perhaps an indication that Africa would be better off by exporting processed products.

Third, producing better quality products throughout the entire chain of the industry at competitive cost require updated technology and skills. Therefore, there is a need for investment in new technologies regularly. Also all components in the production chain plus supply of chemicals, spare parts etc should be effectively interlinked for running an efficient industry. In most African countries, this has not happened. Most countries use 15-20 years old or even older technologies and different parts of the industry chain function in a disjointed manner without consistent policy support. This has also contributed to more export of better quality raw materials on the one hand and low capacity utilisation of domestic industries on the other. There is also serious shortage of skilled manpower in the industry as skilled training is not updated and upgraded, and demand for existing skilled manpower is dwindling due to low capacity utilization in the existing industries and lack of new investment in the industry.
3. Hides and Skins Production and Trade in the Case Study Countries

3.1 Tanzania

Tanzania has the third largest livestock population in Africa after Ethiopia and the Sudan. Tanzania accounts for 6.5% of Africa’s cattle population, 4.7% of goats and 1.7% of sheep populations. During 1995-2001, the country had, on average, 14.2 million cattle, 9.8 million goats and 4.1 million sheep. Cattle, goats and sheep populations grew annually at the rate of 0.62, 1.17 and 0.51 percent respectively (Table 3.1).

In the absence of accurate statistics on offtake rates and rates of collection of hides and skins, accurate estimate of hides and skins production is rather difficult. However, FAO estimates suggest that from the large livestock population, Tanzania produces a sizeable amount of raw hides and skins (Table 3.1). Its share of cattle hide production in Africa is apparently higher than its share of cattle population indicating that offtake rate of cattle is perhaps higher in Tanzania than in some other countries. But share of goat skin production is lower than the share of goat population suggesting that offtake rate and/or collection rate of goat skin is lower than in some other countries.

Table 3.1: Livestock population and hides and skins production in Tanzania

<table>
<thead>
<tr>
<th>Livestock population</th>
<th>Raw hides/skins production</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Livestock population (%)</td>
</tr>
<tr>
<td></td>
<td>000 head</td>
</tr>
<tr>
<td></td>
<td>Annual growth rate</td>
</tr>
<tr>
<td></td>
<td>% of Africa</td>
</tr>
<tr>
<td></td>
<td>Tonnes</td>
</tr>
<tr>
<td>Cattle</td>
<td>14,215</td>
</tr>
<tr>
<td>Goats</td>
<td>9,850</td>
</tr>
<tr>
<td>Sheep</td>
<td>4,102</td>
</tr>
</tbody>
</table>

Source: FAO, 2002

Until the mid 1990s, domestic tanneries and leather industries established by the government used to process hides and skins for local market as well as for export. After privatization of these industries in the mid 1990s, most are now non-functional, and most of the hides and skins are now exported raw or in wet-salted form thereby losing the opportunity to earn additional income from value added processing. Official exports during 1995-2000 decreased gradually (Table 3.2). Also the export quantities seem low compared to the quantities of raw hides and skins production. One explanation given by knowledgeable quarters is that a significant proportion of the raw hides export passes unofficially through Kenya, and a significant number of cattle are also exported on hoof to Kenya so that the hides from those animals are also not accounted for in Tanzania. An estimated $2 million worth of unofficial export occurs annually compared to the official export of about $5 million.

The hides and leather sector in the country is in a poor state and the problems and constraints span from livestock production to slaughter facilities and practices to tanning and processing and laws, regulations and policies related to livestock production practices, slaughter house management, industrial investment, exports and imports. Some of these constraints are discussed in detail later.
Table 3.2: Hides and skins export (volume and value), Tanzania, 1995-2000

<table>
<thead>
<tr>
<th>Items</th>
<th>Mean qty mt</th>
<th>Annual growth rate %</th>
<th>Mean value US$000</th>
<th>Annual growth rate %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hides wet-salted</td>
<td>2868</td>
<td>-1.73</td>
<td>2,240</td>
<td>-17.32</td>
</tr>
<tr>
<td>Hides dry-salted</td>
<td>390</td>
<td>5.84</td>
<td>365</td>
<td>-2.08</td>
</tr>
<tr>
<td>Goatskin wet-salted</td>
<td>473</td>
<td>0.0</td>
<td>691</td>
<td>0.0</td>
</tr>
<tr>
<td>Goatskin dry salted</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sheepskin wet-salted</td>
<td>19</td>
<td>0.0</td>
<td>29</td>
<td>0.0</td>
</tr>
<tr>
<td>Sheepskin dry-salted</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sheepskin with wool</td>
<td>38</td>
<td>-13.15</td>
<td>32</td>
<td>-16.85</td>
</tr>
<tr>
<td>Total hides and skins*</td>
<td>5,592</td>
<td>18.67</td>
<td>5,203</td>
<td>13.19</td>
</tr>
</tbody>
</table>

* Includes other items not mentioned in the table
Source: FAOSTAT, 2002

3.2 Zimbabwe

In the 1970s, there were about 10 million cattle in Zimbabwe including one million high grade breeding stock in the commercial farms. Commercial farms were the main source of cattle hides due to 20-30% off-take compared to 2-5% off-take rate in the communal and smallholder sector with a larger population. Today it is rather difficult to get accurate statistics on livestock population and production as estimates vary between sources (Table 3.3 and 3.4). Of the 5-6 million cattle, about 100,000 are breeding stock in the commercial sector and about 4.3 million are in the communal and smallholder sector. Goats and sheep are traditionally raised by smallholders.

Table 3.3: Livestock population and hides and skins production in Zimbabwe

(1995-2001 average)

<table>
<thead>
<tr>
<th>Population</th>
<th>Raw hides/skins production</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>,000 head</td>
</tr>
<tr>
<td>Cattle</td>
<td>5,341</td>
</tr>
<tr>
<td>Goats</td>
<td>2,733</td>
</tr>
<tr>
<td>Sheep</td>
<td>520</td>
</tr>
</tbody>
</table>

Source: FAOSTAT, 2002
Table 3.4: Livestock population in Zimbabwe, 2000 and 2001 (000 head)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FAO estimate</td>
<td>5,500</td>
<td>5,550</td>
<td>2,790</td>
<td>2,800</td>
<td>530</td>
<td>535</td>
</tr>
<tr>
<td>Zimbabwe census</td>
<td>6.186</td>
<td>6,432</td>
<td>3,804</td>
<td>3,779</td>
<td>691</td>
<td>635</td>
</tr>
<tr>
<td>Zimbabwe LAIFEZ</td>
<td>na</td>
<td>5,500</td>
<td>na</td>
<td>3,400</td>
<td>na</td>
<td>500</td>
</tr>
</tbody>
</table>

Note: LAIFEZ – Leather and Allied Industries Federation of Zimbabwe
Na  not available

Reduced stock in the commercial sector has led to reduced supply of hides from this sector even though off-take rates remain high, about 25%. On the other hand, larger share of stock in the communal and smallholder sector did not lead to an increase in the supply of hides and skins as off-take rate remained very low. Like elsewhere in Africa and other subsistence oriented economies, farmers in the communal and smallholder sector keep livestock as a form of wealth and saving, for draft power, manure and milk and for other social functions, and they sell animals only in times of need for cash rather than at optimum age to make efficient use of feed resources. Consequently, the supply of hides and skins has been shrinking to some extent.

In the past, there was no organized network for rural hides and skins collection as the supply from the commercial sector was deemed adequate. As a result, few skins were collected as negligible price was a disincentive for people to sell skins. Instead they were primarily used in rural areas as mats etc or thrown away. The slaughter houses and abattoirs take hides as their property, which is used as a vehicle to recover cost. So they have some incentive to produce good quality hides and grade them. As more animals from the communal sector are slaughtered for meat, the chances of collecting hides will remain low unless more animals are brought to slaughter houses rather than slaughtering in the scattered rural areas.

Price of hide is an important factor determining collection from the communal and smallholder sector. Overall, the price depends on meat price and the supply-demand balance in the hides and skins sector. Meat price is controlled by the government hence is currently low. But hides and skins prices have gone up a bit in keeping with the currency value in the open market. In Zimbabwe, meat price is Z$124-700 per kg based on cut and quality while raw hide price is about Z$200 per kg. Goat skin price is about Z$ 50-100 per piece , which is one-fifth of the price in Ethiopia (US$ 6 per piece ) and one-third that in Kenya (US$2 per piece). However, in the long-run price has to be used as a mechanism to encourage sale and collection, and quality differentiated price may serve this goal better.

During the last two years, there has been sudden increase in overall supply of hides because of de-stocking by many commercial farms who are apparently closing businesses due to the uncertainty created by the land redistribution policy. However, this short term increase has already leveled off and there is a rapid drop in supply as the size of the commercial sector has become smaller and no dramatic change in off-take rate in the communal and smallholder sector has occurred. The country is in the midst of a drought that is forecast to last two years.
The last major drought in 1991/92 caused a loss of one million cattle and this may happen again as feed supply is already in a critical stage. Supply of quality feeds is scarce and costly.

Reduced export orders and opportunities may also have led to reduced supply of hides. A large order to the tune of 9000 tonnes of meat (about 150,000 cattle) from the European Union has stalled for some time due to recent outbreak of foot and mouth disease from the communal sector. Another order for 5000 tonnes of meat (about 45,000 cattle) from Libya is still under negotiation but Libyan demand to supply EU standard meat has made this deal somewhat uncertain at the moment. There is a commitment to supply 5000 animals to South Africa over the next two years but ban on export of grade cattle may hamper delivery of this order. These uncertainties will impact on the leather sector by reducing the flow of supply of hides. Previously a network of 400 vet stations and 2650 dipping units and strict control on animal movement allowed the commercial sector to be protected from various contagious diseases. This also allowed to produce and export meat of international standard. However, the on-going resettlement process has accompanied a slight breakdown of these control mechanisms leading to irregular dipping and vaccination and uncontrolled movement of animals.

This situation has already put the leather sector into difficulty as many tanneries and footwear factories are running much below capacity while a few years ago they were running at nearly full capacity. The tanneries and hides and skins traders are making extra efforts to collect more hides from the rural areas (communal and smallholder sector) through various means to maintain capacity utilization though these hides and skins are of lower quality (have many parasite infestation due to irregular dipping, have cuts, scratches and thorn damage, brand marks, sand soaked as slaughtered on sandy ground). Such collection is costly because of the need to collect from scattered places around the country requiring more vehicles and manpower, and processing of low quality hides and skins is also costly. However, they realize that the choice is between working with these lower quality hides and skins collected through extra efforts that was not required in the past and loosing money and closing the factories. Some hides and skins traders (collectors) are going as far as providing training and guidance to their rural agents about quality and grades so they work with local slaughter points and workers to produce better quality hides. They are also providing price differential for better quality to encourage rural suppliers to give attention to quality of hides and skins.

3.3 The Sudan

The Sudan has the second largest livestock population in Africa, next to Ethiopia, accounting for an average of 15.7, 17.6 and 17.7% of Africa’s cattle, goat and sheep population, respectively (Table 3.5). The average livestock population during 1995-2001 was 34.4 million cattle, 36.8 million goats and 42.06 million sheep, with a corresponding growth rate of 4.09, 4.65 and 1.88 %, respectively. Sudan’s share of cattle, goat and sheep population in Africa is lower than its share of hides and skins production, suggesting that Sudan may have a lower off-take rate of cattle, goats and sheep or lower collection rate of hides and skins than some other African countries. The annual growth rates of cattle and goats population during 1995-2001 were lower than the corresponding growth rates of cattle hides and goat skins. However, the growth rate of sheep population was lower than the growth rate of sheep skins production, suggesting a decrease in the total number of sheep population. In the year 2001, Sudan produced 56280, 227050 and 22500 metric tons of fresh cattle hides, goat skins and sheep skins, respectively. The Chamber of Commerce estimated that the annual value of raw
cattle hides, sheepskins and goat skins produced is US$ 18 million, 17 million, and 5 million, respectively.

Table 3.5: Livestock population and hides and skins production in the Sudan (1995-2001 average)

<table>
<thead>
<tr>
<th>Population</th>
<th>Raw hides/skins production</th>
</tr>
</thead>
<tbody>
<tr>
<td>000 head</td>
<td>Annual growth rate %</td>
</tr>
<tr>
<td>Cattle</td>
<td>34,382</td>
</tr>
<tr>
<td>Goats</td>
<td>36,837</td>
</tr>
<tr>
<td>Sheep</td>
<td>42,068</td>
</tr>
</tbody>
</table>

Source: FAOSTAT, 2002

Most of the hides and skins are collected from abattoirs, community backyards or popular markets that supply to the hide and skin collectors who then supply to the tanneries. Abattoirs provide slaughtering service to butchers on fee basis. The butchers or meat exporters sell the hides and skins to merchants who will then export them or sell them to domestic tanneries. The slaughter service, the meat business and the hides and skins business (for export and domestic use) remain separated, with most abattoirs operating below capacity. Cattle, sheep and goats, when bought, are valued based on the overall condition of the animal, including the skins and hides, which possibly provide incentive to the herders to care for the quality of the skins and hides. However, as can be seen from the extensive branding of livestock that adversely affects hides quality, the price incentive of basing livestock prices on their overall condition, including the hides quality does not seem to transmit strong enough signal to farmer to do proper care to the hides while the animal is alive. This is an area where awareness creation can play a role.

While 75% of hides and skins are wet-salted with antiseptics applied, 25% is air dried. While wet-salted cattle hides in Sudan weigh on average 20 kg per piece, the dried weight ranges from 5 to 7 kg. Wet salted sheep skins weigh 2.25 kg per piece with a corresponding dry weight of 0.75 kg. Wet-salted goat skins weigh 1.65 kg per piece while the dried weight is about 0.55 kg.

The domestic supply of hides and skins in Sudan is higher than local demand, necessitating the need to promote raw hides and skins export from the country. The total value of hides and skins exported in the year 2000 amounted to US$ 16.9 million. During 1995-2001, the total volume and value of hides and skins exported decreased by 15.52% and 6.19%, respectively. However, there is a variation in the growth rate of export volume and value by type of preservation of the raw hides and skins. While the exported value of wet-salted cattle hides grew by 116.8% from a very low base, the value of dried-salted decreased by 28.85% (Table 3.6). However, the export value of dry-salted goat skins grew by 17.33%. Exporters of hides and skins report that it is easier for them to export dried hides and skins than wet. The main destinations of export for Sudanese hides and skins include Egypt, Syria, Turkey, India, Italy, Pakistan, and the Far East.
Table 3.6: Cattle hides and skins export (volume and value), the Sudan (1995-2000 average)

<table>
<thead>
<tr>
<th>Items</th>
<th>Mean qty</th>
<th>Annual growth rate</th>
<th>Mean value, US$000</th>
<th>Annual growth rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hides wet-salted</td>
<td>100</td>
<td>110.03</td>
<td>158</td>
<td>116.28</td>
</tr>
<tr>
<td>Hides dry-salted</td>
<td>737</td>
<td>-32.63</td>
<td>410</td>
<td>-28.85</td>
</tr>
<tr>
<td>Goatskin wet-salted</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Goatskin dry salted</td>
<td>209</td>
<td>16.76</td>
<td>640</td>
<td>17.33</td>
</tr>
<tr>
<td>Sheepskin we-salted</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sheepskin dry-salted</td>
<td>1,102</td>
<td>-13.66</td>
<td>1,901</td>
<td>-9.91</td>
</tr>
<tr>
<td>Sheepskin with wool</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total hides and skins</td>
<td>2,148</td>
<td>-15.52</td>
<td>3,110</td>
<td>-6.19</td>
</tr>
</tbody>
</table>

Source: FAOSTAT, 2002

3.4 Senegal

During 1995-2001, Senegal had an average of 2.9, 3.7 and 4.3 million cattle, goats and sheep, respectively (Table 3.7). These averages account for about 1.3%, 1.7% and 1.8% of Africa’s cattle, goats and sheep population, respectively, similar to Senegal’s share in Africa’s hides and skins production. The cattle, goat and sheep population of Senegal shows a significant positive growth rate during 1995-2001, as do the production of cattle hides, and goat and sheep skins. Zebu and Ndama are the two dominant cattle breeds in Senegal. Zebu cattle produce stronger hides than Ndama.

Table 3.7: Livestock population and hides and skins production in Senegal (1995-2001 average)

<table>
<thead>
<tr>
<th>Population</th>
<th>Raw hides/skins production</th>
</tr>
</thead>
<tbody>
<tr>
<td>‘000 head</td>
<td>Annual growth rate (%)</td>
</tr>
<tr>
<td>Cattle</td>
<td>2.07</td>
</tr>
<tr>
<td>Goats</td>
<td>3.39</td>
</tr>
<tr>
<td>Sheep</td>
<td>3.23</td>
</tr>
</tbody>
</table>

Source: FAOSTAT, 2002

About 2/3 of the total hides production in Senegal is used by local artisans, while about 2/3 of skins is exported. Total volume of hides and skins export from Senegal amounted to an
average of about 2078 metric tons during 1995-2001, about 80% of this being cattle hides (Table 3.8). During the same period, the value of Senegal’s export of hides and skins amounted to about US$ 4.2 million. While Senegal’s export of wet-salted hides and skins showed an impressive positive growth rate, its export of skins declined significantly, except for sheep skins with wool, which accounts only for 5 metric tons per year. It is important to relate the decline in export of skins with the substantial positive growth rate of the sheep and goat population in the country. This disparity may indicate a declining recovery rate of hides and skins, a declining off-take rate and/or declining competitiveness in the export market.

Table 3.8: Cattle hides and skins export (volume and value), Senegal (1995-2000 average)

<table>
<thead>
<tr>
<th>Items</th>
<th>Mean qty mt</th>
<th>Annual growth rate %</th>
<th>Mean value, US$000</th>
<th>Annual growth rate %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hides wet-salted</td>
<td>1,602</td>
<td>16.01</td>
<td>2,528</td>
<td>13.49</td>
</tr>
<tr>
<td>Hides dry-salted</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Goatskin wet-salted</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Goatskin dry salted</td>
<td>261</td>
<td>-4.29</td>
<td>1,164</td>
<td>-18.07</td>
</tr>
<tr>
<td>Sheepskin we-salted</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Sheepskin with wool</td>
<td>5</td>
<td>76.71</td>
<td>10</td>
<td>18.43</td>
</tr>
<tr>
<td>Total hides and skins</td>
<td>2,078</td>
<td>9.57</td>
<td>4,205</td>
<td>0.17</td>
</tr>
</tbody>
</table>

Source: FAOSTAT, 2002

The leather sector in Senegal is essentially oriented towards exports. The export value of the leather sector is estimated to be about 3 billion CFA (about US$16.76 million). The meat sector in Senegal consumes nearly 1.5 million small ruminants and about 0.3 million cattle annually. The leather and skins are for the most part collected from official slaughtering places. Significant quantities of hides and skins are also collected during certain Muslim holidays, such as Tabaski or feast of sheep, Tamkharite, Maouloud, return from Mecca etc. During such events, skins and hides merchants organize countryside campaigns of collection of the hides and skins. There is also a substantial supply of skins during Christmas and the New Year holidays. Senegal also imports leather and leather products. Senegal imported 46, 6, and 42 tonnes of leather and leather products in 1999, 2000, and 2001, respectively.
4. Factors Affecting Quality of Hides and Skins Production

The quality of hides and skins is influenced by factors throughout the production chain including animal husbandry and disease management, slaughter facilities and practices, handling and preservation methods. The general and specific conditions with respect to these factors in the case study countries are discussed below.

4.1 Animal husbandry practices affecting quality of hides & skins

The animal husbandry practices have some similarities as well as dissimilarities between the four case study countries. In Tanzania, the Sudan and Senegal most of the animals are local breeds raised in pastoral systems by nomadic or semi-nomadic herders and a small proportion of animals are raised by smallholder crop-livestock mixed farmers. For example, 91, 89 and 71% of agricultural land in Tanzania, the Sudan and Senegal are under permanent pastures supporting their pastoral livestock populations (ILRI, 2000). Zimbabwe is the only country in sub-Saharan Africa other than South Africa to have a livestock sector with a large and developed commercial farms raising exotic and high grade cattle. As mentioned earlier, of the current population of 5-6 million cattle in Zimbabwe, about 100,000 are high grade animals in the commercial sector and the rest are zebu cattle in the communal smallholder sector, while sheep and goats are raised by smallholders. Eighty six percent of agricultural land in Zimbabwe is under permanent pastures, a large portion of which is used by the commercial sector though its share of livestock population is smaller.

These differing breeds as well as husbandry practices have implications for quality of hides and skins produced. In Zimbabwe, traditionally over 90% or the bulk of the cattle hide production was from the commercial farms, which has a smaller population but high off-take rates. These hides are amongst the best in Africa because of the breed of cattle and improved feeding methods, making them ideal for all types of leather including automotive upholstery. Also a good number of animals from the communal sector were fattened in feedlots for supplying to the abattoirs, which improved quality of hides. The decline of the commercial sector in the country has led to reduced supply of high quality hides. In the other three countries, local zebu breeds do not generally produce very high quality hides.

In pastoral and smallholder systems, farmers keep livestock for other purposes such as signs of wealth as well as for ploughing. Therefore they are less inclined to sell animals when they attain maturity and only sell when they must in order to raise money to pay for urgent and important needs. Therefore animal husbandry practices do not promote measures or methods which lead to high off-take rates Therefore livestock slaughtered usually constitute of mature or old animals whose skins have suffered damage through exposure to the environment.

There is little documented information on the correlation between quality of livestock nutrition and the quality of raw hides and skins. However, it must be appreciated that poor animal nutrition affects adversely the production of all animal products, i.e. meat, milk. It is therefore unlikely that hides and skins quality remain unaffected. For example, animals from the commercial sector in Zimbabwe produce better quality hides because of better breeds as well as better nutrition. And zebu cattle from the communal sector fattened for supplying to the abattoirs also produce better quality hides than those produced by pastoral cattle, indicating that nutrition plays a role in improving both meat and hide quality.

Mature cattle, goats and sheep normally do not require high dietary feeds and largely depend on coarse feeds high in cellulose content. However, due to various ecological conditions
within the sub-region and sometimes within the same country, some of the animals are usually exposed from young age to seasonal drought conditions, poor pastures and low quality highly lignified forage.

Although nutritional deficiencies are usually non-specific and are often the result of low plane nutrition, insufficient intake of feed energy is the main cause of retarded growth. Hides and skins from areas where feeds available for the animals is inadequate usually bear tell-tale quality characteristics. The hides are normally of small size, mainly lights and mediums with thin substance. The grain structure is normally tight but is usually degraded by the environment, which is normally thorny and bushy. These types of hides and skins originate mainly from marginal areas where animals are not reared in ranches. The post-mortem preparation of hides and skins is generally poor so that these materials result in high lime-loss rejects percentages when processed in the tannery (Kiruthu, 1991).

Moreover, the damage caused to the hides and skins under pastoral and smallholder husbandry conditions when the animal is alive is mostly attributed to various types of mechanical actions and is classified as mechanical damage. Loss of value attributed to these types of damages is estimated to be 40% of the total value of hides and skins for Africa in general (citation, if available). The defects are identified according to the damage caused or by the causative agent.

4.1.1 Scratches and horn rakes
Scratches are amongst the most common mechanical damages found on both hides and skins in all four countries as elsewhere in Africa. This is because most of the livestock is concentrated in areas of open savannah grasslands or areas with fairly dry environment where thorny bushes are found. Multiple scratches are therefore quite common. Scratches give leather an anaesthetic appearance and if deep, cause considerable loss of tear strength especially on skins. The quality is also degraded as tanners try to obscure the faults on the grains by embossing or printing, which also increase processing costs. Consequently, the raw materials fetch lower prices.

On cattle hides horn rakes are a general problem as animal husbandry practices in these countries discourage dehorning. Therefore cattle injure the hides mostly in crushes, in fights or during transportation. In some cases the damage is quite serious as the wound is generally deep. Another type of serious damage is caused in many countries in goads, and other pointed instruments, which produce actual punctures, usually in the most valuable part of the hide, but the practice is not common in the Sudan.
4.1.2 Branding

The widespread and indiscriminate practice of branding cattle with hot irons causes high losses in the hide and leather industry. Anything from 10-40 percent of the value of the hide is lost by the unsightly and irreparable damage caused by branding. The practice of branding is common due to prevalence of cattle rustling and farmers use prominent branding in order to identify their animals. There are also pastoral tribes who use branding as treatment method for certain diseases especially by applying hot irons on glands. Unfortunately most branding is done on areas of hides, e.g. on the back and rumps, which have high value (Figure 4.1).

Figure 4.1: Extensive brands on cattle

4.1.3 Tick bites

Infestation of ticks on livestock not only cause damage to hides and skins but also spread of livestock diseases as ticks are important vectors of tick-borne diseases. Unfortunately in many African countries animal husbandry measures for controlling ticks are expensive due to the use of chemicals (acaricides) and therefore a lot of farmers leave their animals unprotected from ticks. Among the four case study countries, only Zimbabwe has an extensive infrastructure for dipping animals as well as for providing other veterinary services. Compulsory dipping of pastoral animals also protected the commercial sector. However, recent changes due to the land resettlement scheme have apparently led to a disruption in the dipping practices, which may negatively impact on the livestock sector in general and the quality of hides and skins production.

One of the major causes of down grading of hides and skins emanating from East and Central African countries is attributed to tick-marks. The tick-marks are cause by ticks which are found mainly in tropical and sub-tropical countries. These parasites attach themselves on the hides and skins in order to feed on the blood of the host animal. When in unfed state, they are usually flat but when engorged with blood, they become almost spherical.

Heavy infestation of these parasites can cause substantial loss of blood from the host animal making it weaker. The ticks are also major disease vectors and cause transmission of diseases e.g. East Coast Fever, anaplasmosis in Tanzania, Streptothecosis and Nodular, Dermatofiosis in Senegal which are of economic importance due to damage on the hides and death of the
animals which die from the disease. More specifically for the hides and skins industry, they damage the skin in areas where they attach themselves which become inflamed and sometimes permit entry of other parasites e.g. screw-worms and various microbes. The healing of areas of attachment normally leaves behind pin-point scars and the raw material cannot be used for full grain leather. Raw materials affected by tick-infection are therefore down-graded and are of reduced value to the leather industry.

Another important skin condition due to ecto-parasite is caused by Mange or scab, which is common in all the four countries. This is a skin disease which is caused by various species of mites infesting domestic animals. The distribution of these ecto-parasites is almost universal. The parasites are minute, rounded or oval, short-legged, flat organisms which are normally host-specific. In the recent past a condition caused by Sheep ked infestation has been found to cause substantial damage to skins especially in Ethiopia.

4.2 Slaughter facilities and slaughter practices affecting quality

Slaughter facilities in the case study countries as elsewhere in Africa consists broadly of slaughter slabs in rural and urban areas, mechanised abattoirs/slaughter houses, and non-specific places used by farms and households. The type of facilities used in a country also determine quality of hides and skins produced.

4.2.1 Homestead slaughter

Most of the small stock are slaughtered in homesteads and therefore this is scattered and periodic. Small stocks (goats and sheep) are mainly killed during festivities, either for religious purposes or wedding celebrations. The methods of slaughter and conditions vary widely not only from homestead to homestead but also the practice in different countries. For instance in the Sudan the flaying methods employed in abattoirs is pulling of skins (Figure 4.2) instead of flaying with knife practiced in other countries. In Senegal pulling as well as knives and machines in abattoirs are used for flaying. Pulling reduce incidence of flay cuts as the skins are pulled off the carcass. The different methods of slaughter reflect directly on the quality of raw skins obtained with the pulled skins having less slaughter defects and therefore fetching a better price. This slaughter method however can not be applied on cattle at this level due to physical limitations as the animals are large.

4.2.2 Rural slaughter slabs

Most livestock slaughtered in rural slaughter slabs is done under very poor conditions. While goats and sheep are slaughtered mainly in homesteads, cattle in many countries are slaughtered in poorly equipped slaughter points where the infrastructure is sometimes a slab of concrete, under a tree or using poles for hoisting carcasses. These facilities are normally located adjacent to butcheries in various trading centres. The slaughtering therefore takes place in scattered areas and often without adequate supervision.

The tools used in these facilities or in homesteads are usually rudimentary and cause damage to the hides and skins during slaughter. In many cases running water is not available and hides are not washed off after slaughter. More often than not lifting blocks for raising carcasses are not available and therefore all operations are carried out on the floor. The general situation, however, varies greatly from country to country depending on the capacity and availability of veterinary extension services as well as the legislation, if it exists, governing operations of these facilities.
4.2.3 Mechanised abattoirs/slaughter houses

Among the four countries, only Zimbabwe has abattoirs and meat processing plants of high standard designed to export meat to Europe and other developed countries. Mechanised abattoirs used to provide about 90% of the hides in Zimbabwe as the commercial farms with high off-take rates used to supply animals to the abattoirs. Recent land resettlement and accompanying disruption has initially increased supply of animals for slaughter hence increased supply of hides, but this has now levelled off and a reduced supply from the commercial sector is envisaged. Most of the hides and skins in the Sudan also come from abattoirs and slaughter houses. In Dakar, 45% of the hides and skins come from slaughter houses. In Tanzania, less than 10% of the animals are currently slaughtered in organised slaughter houses.

The abattoirs and slaughter houses are generally located in towns and cities where the high level of meat consumption and veterinary hygiene requirements dictate concentration of slaughter in centralised abattoirs. In Zimbabwe, the location of these facilities is partly dictated by the distribution of commercial farms which are the main source of slaughter cattle. Most of these facilities are owned by Municipalities or Governments but increasingly there is now a lot of private participation in abattoir ownership. Some of the abattoirs were built a long time ago and while maintenance is largely inadequate these facilities still provide hygienic slaughter and are equipped with refrigeration rooms. Unfortunately the high cost of running these large facilities compared with smaller unregulated abattoirs have over the years diverted slaughter from the centralised points. As a result in Tanzania and Zimbabwe there has emerged mushrooming of smaller abattoirs and in some cases even unsupervised backyard slaughter due to weak legislation and supervisory capacity in many cities ??.
In most cases poor flaying, lack of skills and absence of for instance hide pullers in modern abattoirs lead to production of low quality hides and skins. The post slaughter handling of raw materials exacerbates the prevailing bad situation. The following defects on hides are directly caused by slaughter and post slaughter operations.

**Rubbed grain:** This damage is produced by dragging the unflayed carcass over rough and uneven ground and can even be caused by rough concrete. The grain is generally rubbed off or ‘frizzed’ and is a definite cause of loss in value to the tanner. Preventative measures can be adopted in the field or slaughterhouses. Stout poles could be used to raise the carcass off the ground or the carcass could be supported on poles which are then dragged along. Slaughterhouses should have smooth floors where the animal is flayed which eliminate or reduce trauma caused by dragging.

**Bad pattern:** This is caused by indiscriminate ripping. ‘Ripping’ being the initial opening cuts down the centre of the belly and the four legs. The correct method of ripping ensures a uniform pattern, with bellies of equal width, well opened shanks and dewlap, a round butt and adequate tails.

**Flay cuts, scores or gouges:** This damage is caused by the careless use of the knife or by the use of unsuitable knives. Flay cuts constitute the most serious mechanical defects on hides and skins. Lack of proper tools like the rounded flaying knives, lack of flaying skills and carelessness lead to loss of quality or outright rejection of raw hides and skins.

![Figure 4.3: Flay cuts on air suspension dried hides](image)

**4.3 Causes and impact of post slaughter defects on quality**

Investigations carried out by UNIDO Africa Leather Programme found that at least 60% of hides and skins defects found in Tanzania are attributed to defects which are caused during slaughter, due to handling and preservation procedures. Loss of quality of hides and skins due to post-slaughter activities is therefore very significant for the leather industry and has contributed to a large extent to the poor image of raw materials of African origin.
following are some of the damages caused during flaying, handling and preservation of hides and skins:

### 4.3.1 Grain cracks

Drying in a crumpled condition and by multifolding causes grain-cracks or any pressure and strain, combined with low moisture content will result in this troublesome damage. The theory that excessive strain, exerted by the tension of the strings when frame or “tent” drying, causing grain-cracks has now been disproved. Folding and unfolding when the hides are dry will always be a danger and cracks are very frequently caused in this manner (Figure 4.4). The initial fold along the ridge of the back after framing should always be done when the hide still retains some moisture. If the hide is dried out before folding it should be “conditioned” by leaving it over night and folding early in the morning.

![Figure 4.4 Dry salted sheep skins- folded and strapped](image)

### 4.3.2 Bacterial damage

Bacterial damage is sometimes not evident straight away and indications or signs of putrefaction are loss of hair in some areas (Figure 4.5) and an unpleasant smell. It is essential to wash well early after flaying, clearing off all traces of blood and dirt and then either salt down, brine or air-dry as soon as possible. The explanation of early bacterial damage will be difficult to convey to the traders who may not actually understand what is actually happening to his hide during drying before air dying or salting.

![Figure 4.5: Putrefaction- Bacterial damage on wet-salted hides](image)
4.3.3 Mechanical damage

When hides are being prepared for air-drying by the framing method, it is customary to remove excess flesh left on the hide by de-fleshing. This is normally done using a concave knife on a table where the hide is spread with the flesh side facing up. Most times the operators taking off the flesh do not take care as they try to make the hide too clean by getting maximum amount of flesh out. During this process hides suffer flay cuts and gouges are made.

4.3.4 Defects during wet salting

In wet and dry salted hides the salt acts as bacteriocidal agent as well as a preservative against insect damage, but certain halophilic bacterial (salt loving) can thrive in a salted hide and can give rise to a common defect known as “red heat”.

Defects likely to appear during wet salting prior to drying mainly fall into two categories, firstly those arising from careless cooling, washing, piling salting and draining and secondly, those arising from the use of dirty used salt or the wrong kind of salt.

Attempts to salt down before the hides have lost their natural heat should be avoided and every effort to keep the hides cool, by washing in cold water, keeping in the shade, should be encouraged especially in hot countries. There is however often delay and laxity in initiating timely preservation processes. Uneven salting, poor quality salt, attempts to pile too high, and the use of unsatisfactory premises are some of the causes of defects during wet-salting.

In order to have good preservation use of approved bacteriocides is encouraged by incorporating this into the salt or brine. However use of arsenic compounds and pentachlorophenols is banned by many importing countries.

4.4 Damage caused during storage, packaging and transportation

4.4.1 Scratches and tearing

Even after the hides are properly dried or cured they may still suffer damage by careless handling. Inadequate strapping when the hides are baled can do serious damage by the loose shanks and edges getting torn. Outside hides of loosely packed bales have been almost torn in half when being moved and thrown about during transportation.

Excessive pressure by baling presses will cause tearing of the edges and cracking at the folds and attempts should be made to place protective materials underneath the straps. Wet salted stocks can suffer damage by abrasion if baled singly hair side out.

4.4.2 Wetting and contamination

If hides are allowed to get wet in shipment or in transit, bacterial action (putrefaction) will occur. Contamination in transit can cause varying degrees of damage, the worst being direct
contact with sea water and iron decks. The resulting iron salt stain being permanent and a serious loss to the tanner.

4.4.3 Insect infestation

Hides and skins are prone to insect damage from the day they are stripped from the animal until they are first processed in the tannery.

The most destructive of these insects which attack hides and skins are members of a beetle family, the larvae of which are distinguished from all other beetle larvae by their hairy coats. They are commonly known as the hide or leather beetle. All hides and skin prepared in tropical countries are most liable to this extensive destruction especially in warm and humid coastal areas, where conditions in store favour rapid multiplication of these larvae on untreated skins.

Another insect causing damage of similar nature is the white ant but the loss through destruction is not so serious as that of the hide beetle. This damage can also be eliminated by the application of insecticides.

4.5 Summary

Table 4.1 Relative importance of various husbandry related problems causing poor quality of hides and skins in the four countries

<table>
<thead>
<tr>
<th></th>
<th>Tanzania</th>
<th>Zimbabwe</th>
<th>The Sudan</th>
<th>Senegal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breeds</td>
<td>***</td>
<td>**</td>
<td>***</td>
<td>***</td>
</tr>
<tr>
<td>Pastoral husbandry</td>
<td>***</td>
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<td>***</td>
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<tr>
<td>Nutrition</td>
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<td>**</td>
<td>**</td>
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<tr>
<td>Calf mortality</td>
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<tr>
<td>Scratches</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brands</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tick bites</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

*** major problem ** mild problem * minor problem
5. Structure and Operational Status of Hides and Skins Processing Industry

5.1 Tanzania

During the 1975-1995 period, the government gave leather sector a high priority for development and established several tanneries and leather industries under the supervision of the Tanzania Leather Associated Industries (TLAI) for producing semi-finished and finished leather and various leather products. Although these industrial units did not always run efficiently and on profit, they operated under protective economic policies and produced significant amount of leather products for the domestic market. Once economic liberalization programme was started in the mid 1980s, some private investors also started business in the sector. However, by mid 1990s, under the structural adjustment programme, all large tanneries and leather industries were privatized in order to make the sector more efficient, dynamic and profitable. But this objective has not been realized. All the large tanneries are non-functional, only three smaller tanneries are operating at 20-30% capacity producing raw and wet blue hides for export rather than further processing (Table 5.1). The shoe industries are also non-functional. As a result of these, 600 jobs in the tanning sector and another 800 jobs in the footwear sector have been lost. Some of the reasons are as follows.

5.1.1 Poor quality hides and skins

As mentioned earlier, poor animal husbandry and disease management practices lead to production of poor quality animals and poor quality hides and skins. Then improper slaughtering and flaying practices cause further damage to hides and skins. No public grading of hides and skins is practiced at slaughter houses, so supply is not differentiated by quality and value. Better quality product therefore obtains no price benefit, thus providing no incentive for skilled slaughtering and flaying. As a result of all these, tanneries get poor quality hides and skins, and often they get product of unpredictable quality, and spend extra cost for grading and sorting. No reliable statistics on grade classification exist. A survey of slaughter points in Dar es Salaam in 2000 indicated that of the total number of hides produced, only 10% were of grade 1, 20% grade 2, 35% grade 3, 30% grade 4 and 5% reject (CFC project, 2001). Another document produced by a Task Force of Stakeholders reported that over 50% of all hides and skins are of reject category and less than 15% are of grade 1 and 2 (Task Force report, 2002). Irrespective of the discrepancy in statistics, the problem is a serious one as with such poor and unclassified supply, tanneries need to spend more time on grading before processing, cost of processing poor quality product is high and the cost become even higher at advanced stages of processing because only a small proportion of supply eventually gets processed into quality finished leather. Although there is demand for higher quality products at domestic and export markets at higher prices, current practices are reducing the current and potential value. Consequently, everyone in the chain – farmers, hides collectors, traders, slaughterhouses and tanners – see hides and skins as low value items not deserving enough attention or proper treatment.

5.1.2 Management of industries

At the time tanneries and leather industries were established by the government under the supervision of Tanzania Leather Associated Industries (TLAI), this was a good public policy initiative to develop local material based industry for income and employment generation, earn foreign exchange and supply cheap leather products to domestic consumers. However, as everywhere else state management of these industries was not efficient. So labour
<table>
<thead>
<tr>
<th>Plant name</th>
<th>Ownership</th>
<th>Installed capacity</th>
<th>Current status</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Africa Tanneries Ltd, Mwanza</td>
<td>Private since 1993</td>
<td>10 million sqft/annum</td>
<td>Closed</td>
<td>Operated during 1994-97, producing leather for local and export market; stopped due to lack of working capital, management problems and environmental problems</td>
</tr>
<tr>
<td>Tanzania Leather Industries Ltd, Morogoro</td>
<td>Private since 1992</td>
<td>10 million sqft/annum</td>
<td>Closed</td>
<td>The factory needed major rehabilitation, which was started soon after privatization but not finished yet.</td>
</tr>
<tr>
<td>Moshi Leather Industries Ltd</td>
<td>Private since 1993</td>
<td>10 million sqft/annum</td>
<td>Operating at 30% capacity</td>
<td>After take over, rehabilitated wet blue sector; exports wet blue leather and sells finished leather domestically</td>
</tr>
<tr>
<td>Bora Industries Ltd</td>
<td>Private since 1995</td>
<td>4.6 million pairs/annum</td>
<td>Operating</td>
<td>Leather shoes are not produced due to fear of competition from cheap imports including second hand shoes; producing only rubber products</td>
</tr>
<tr>
<td>Lake Trading Co Ltd, Kibaha</td>
<td>Private</td>
<td>4 million sqft/annum</td>
<td>Operating</td>
<td>Producing wet blue hides for export; skins supply inadequate and irregular making uniform quality production difficult.</td>
</tr>
<tr>
<td>Afro Leather Industries Ltd</td>
<td>Private</td>
<td>5 million sqft/annum</td>
<td>Operating 25% capacity</td>
<td>Producing wet blue for export ?</td>
</tr>
<tr>
<td>New Kibaha Tannery</td>
<td></td>
<td></td>
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<tr>
<td>Maka Holdings</td>
<td></td>
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<tr>
<td>Pelly’s Enterprises</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Liberty Shoe Factory</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ladha Industries</td>
<td>??</td>
<td>1800 pairs/day</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jacks Footwear</td>
<td>??</td>
<td>50 pais /day</td>
<td></td>
<td></td>
</tr>
<tr>
<td>J A E (T) Ltd</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Fair Deal Import and Export Co Ltd</td>
<td></td>
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</tr>
<tr>
<td>Noble Footwear</td>
<td>??</td>
<td>350 pais/day</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Please fill the gaps if possible, else we remove the entries for which no information is available.
productivity was low and cost of production per unit was high yet under a protective economic policy these enterprises were functioning. After the initiation of in any way, the structural adjustment programme, hides and leather sector was one of the first to be privatized. All the big enterprises were sold to the private sector expecting they will be more efficient, dynamic and profitable as well as serving the interest of the nation. Good economic incentives, financial assistance including investment in improving pollution control systems were provided to some of the enterprises. Yet most eventually closed operation after short periods of operation for a variety of reasons e.g. management problems, lack of working capital, low world market price for the products produced. However, some stakeholders in the industry now believe that the privatization was done in a hurry, with over enthusiasm to get rid of loss making enterprises and make account books look better without putting in place supporting policies to make them work under a changing economic environment. Also not enough attention was given to identify appropriate buyers with adequate experience in the industry who would be able and willing to make adequate investment in updating the technology, improve the skills of workers and make the enterprises work under the evolving policy and economic environment.

The Leather Association of Tanzania (LAT) was formed by stakeholders in the industry for promoting the sector, improve investment environment and capacity through its own efforts as well soliciting support from the government and other agencies. However, weak leadership, lack of adequate interest of members and lack of financial resources have made the association virtually ineffective so far.

5.1.3 Skills and manpower

There is a shortage of tanning skills in the country and since most tanneries are not functioning, demand for skills and further training is limited. Tanzania Institute of Leather Technology (TILT) was established by the TLAI to train skilled manpower for the industry and civil construction and equipment installation was completed under UNIDO assistance. However, the institute never came into operation partly due to the decline of the leather sector and reduced demand for manpower and partly due to lack of funds. In 1990, the institute was supposed to be transferred from TLAI to the Ministry of Industry and Trade but was never done. Later it was leased to an entrepreneur who is using its production facilities to produce leather products while other infrastructure and training facilities remain idle. Its fate is still to be clearly decided. This is another vicious circle which needs to be broken to improve quality of hides and skins production and processing.

The Leather and Leather Products Institute (LLPI) based in Addis Ababa, Ethiopia, was established by COMESA as a regional institute to promote productivity, competitiveness, trade and regional integration in the leather sub-sector through the provision of human resource development, research and training, consultancy and extension, information collection and dissemination (LLPI, 2002). The TILT is a member of the LLPI network. However, it is not clear if TILT has received any support from LLPI.
5.1.4 Market situation

The tendency of business firms in the sector for trading rather than manufacturing, i.e. exporting raw hides and skins rather than processing them for value addition, is partly the result of the market situation. The Tanzanian products do not have a good image in the world market as Ethiopian and Kenyan products do. Moreover, countries like China, Pakistan, India, Egypt import raw hides and skins while European Union import wet blue hides and skins but the price offered by EU is not sufficiently attractive, so traders find exporting raw hides more rewarding. Also integrated, more mature tanning and leather products companies in other developing countries, e.g., China and Pakistan, have lower production costs and high value-added end products and can therefore pay a higher price for raw Tanzania hides than can local tanners. This also provide incentive for raw hides export rather than processing. This way they also reduce the problem of labour management and related problems. Another disincentive for processing is that there is little commercial import of chemicals for the tanning industry due to limited market, so tanners have to import individually which is both costly and cumbersome due to the import procedures to be followed. Local tanners can lower costs by purchasing and working with lower quality skins that are not exportable, and that is what some do to a limited extent.

With economic liberalization, imports have become easier. The result is that cheap shoes and secondhand shoes are imported to meet domestic demand with limited buying power. There is minimal border control between Kenya and Tanzania so Kenyan leather and leather products, where scale economies are far greater, can come across with low costs. On the other hand, due to a reputation of better quality, Kenya have a competitive advantage for importing raw hide from Tanzania for re-exporting at a higher price and for processing and exporting value added goods. This has also limited the incentive for value added processing throughout the production chain in Tanzania. Current production techniques and facilities are inadequate to produce at cost that will provide effective competition with the secondhand shoe market. Imposition of import tariffs may not solve this problem because this will raise the overall cost to all consumers, who will then be obliged to higher prices for lower quality domestic shoes from low-end leather.

5.1.5 Cost of production

Slaughter houses are not well organized and well administered, so not many animals are slaughtered in these facilities, instead scattered slaughtering is common. This makes collection of hides and skins time consuming and costly. In smaller town and markets, there is not a large quantity of supply in any one place or geographic area, which combined with poor transport network make raw material collection costly. This structure does not allow cost savings for either producers or traders and tanners. Electricity, communications and transport costs are high in country compared to some of its neighbours, resulting in higher processing cost of material. Also 20% VAT is higher than some of the neighbouring countries, making the cost of processing uncompetitive. Overall, the estimated total cost for tanning a square foot of leather in Tanzania is about US$1.70 compared to US$1.0 in Zambia and Kenya.
5.2 Zimbabwe

There are four components of the industry: slaughter houses and abattoirs, tanneries, footwear factories, and marcquineries (small leather goods producers). There are 22 registered abattoirs slaughtering cattle, sheep, goats, ostriches and crocodiles but there are 59 other smaller abattoirs or slaughter houses scattered throughout the country. Among the registered ones, the Cold Storage Company, a parastatal, has 5 large abattoirs cum meat processing units of which 3 are currently functional and the other 2 have been closed due to inadequate export orders. There are 8 or 9 tanneries with varying capacity and production line (from tanning wet blue to finished leather) affiliated to the Leather and Allied Industries Federation of Zimbabwe (LAIFEZ), 24 footwear factories and 35 small leather goods production enterprises (Table 5.2). Together they employ about 2700 people. A number of additional tanneries established in the Export Processing Zone (this is not actually a physical area but a concept applied to a special category of enterprises licensed to export their products) which are based mainly in rural areas and they do not normally have capacity to tan beyond wet blue. While some LAIFEZ affiliated tanneries have good effluent control facilities, others don’t have and the EPZ tanners are apparently not required to strictly follow this guideline.

Table 5.2: Hides and skins industry structure in Zimbabwe, 2000

<table>
<thead>
<tr>
<th></th>
<th>Abattoirs</th>
<th>Tanners</th>
<th>Footwear</th>
<th>Marcquinerie (small leather goods)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number</td>
<td>22</td>
<td>9 or 8</td>
<td>24</td>
<td>35</td>
</tr>
<tr>
<td>(N with &gt;10 workers)</td>
<td>(17)</td>
<td>(7)</td>
<td></td>
<td>(8)</td>
</tr>
<tr>
<td>(N with &lt;10 workers)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number with effluent treatment</td>
<td>na</td>
<td>2</td>
<td>na</td>
<td>na</td>
</tr>
<tr>
<td>N of employees</td>
<td>na</td>
<td>670</td>
<td>1581</td>
<td>525</td>
</tr>
<tr>
<td>Technology age, yrs</td>
<td>na</td>
<td>20</td>
<td>20</td>
<td>10</td>
</tr>
<tr>
<td>Value of production, $000</td>
<td>na</td>
<td>12,000</td>
<td>16,107</td>
<td>3,000</td>
</tr>
<tr>
<td>1999</td>
<td>12,000</td>
<td>12,000</td>
<td>14,864</td>
<td>2,000</td>
</tr>
<tr>
<td>2000</td>
<td>19,800</td>
<td>7,961</td>
<td>3,286</td>
<td>2,303</td>
</tr>
<tr>
<td>Value of export, $000</td>
<td>na</td>
<td>6,635</td>
<td>3,228</td>
<td>1,575</td>
</tr>
<tr>
<td>1999</td>
<td>1,288</td>
<td>504</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>2000</td>
<td>1,356</td>
<td>504</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Value of imports, $000</td>
<td>1,865</td>
<td>504</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

Source: PISIE survey on ‘diagnostic study on leather, footwear and leather products in Africa’, 2002 by ESALIA
The LAIFEZ affiliated tanneries have a total capacity to soak 680,000 to 750,000 hides per annum. In 2001, they soaked 520,000 cattle hides and 260,000 goat and sheep skins, including certain quantities soaked on contract basis for non-member third parties (abattoirs and hides traders). This allowed about 70% capacity utilization. The capacity of the EPZ tanners for soaking could not be ascertained.

There has been a ban on the export of raw hides since the mid 1980s. Abattoirs and hides and skins traders are supposed to supply raw hides to the local tanneries for processing, who in turn are supposed to supply finished leather to the domestic footwear factories for processing, who in turn are supposed to supply finished leather to the domestic footwear factories for processing, who in turn are supposed to supply finished leather to the domestic footwear industries as well as export. This policy enabled a highly integrated and efficient hides and leather industry producing quality products for domestic market as well as export. However, in recent time, several uncoordinated actions have led to some disintegration of the process and under-utilisation of the industrial capacity.

First, in spite of a ban raw hides export, about 83,000 pieces of hides were exported in 2000 and perhaps a little smaller number in 2001 with government permit from the Ministry of Lands, Agriculture and Rural Settlement though LAIFEZ member tanneries were running at 60-70% capacity due to shortage of raw material. These permits have been issued to tanneries established in the EPZ as those tanneries are apparently not subject to the raw hides export ban by virtue of their export oriented status.

Second, there is currently a partial ban on the export of wet blue hides; any export has to be approved by the Ministry of Lands, Agriculture and Rural Settlement. In reality, the local tanneries have the capacity to process about 300,000 to 350,000 hides per annum to finished leather, therefore limited export of wet blue is possible, especially lower grades which may not be useful for further processing. Such export may allow foreign exchange earning for importing chemicals and other machinery for the leather sector.

About 245,000 pieces of wet blue hides were exported in 2000 and permits were issued for exporting 300,000 in 2001 though actual export figures for 2001 are not available yet. FAO estimates suggest a secular decline in export during 1995-2000 (Table 5.3). However, these export permits have also been largely issued to EPZ tanners, who exported both good and low quality hides and the earning could not always be ploughed back to the leather sector. It is alleged that some abattoirs and hides traders also export through the EPZ tanners to benefit from foreign exchange earning. LAIFEZ member tanneries are apparently strictly monitored before issuing export permits for wet blue hides. The result has been reduced production of finished leather, reduced supply to footwear industries leading to their reduced capacity utilization. It has been suggested that capacity utilization in the footwear factories reduced by 30-40% in the last 2-3 years.

Third, currently the currency is highly over valued, the parallel market rate is about 5 times the official exchange rate. By regulation exporters have to surrender 40% of the export proceeds to the central bank at the official exchange rate and may use the remainder for importing raw materials, chemicals and machinery for the industry. It has been suggested that the remaining 60% of export earnings are not often adequate for necessary imports while the local currency equivalent of the 40% export earnings are not adequate for operating expenses
as wage rates need to be kept in line with inflation rate as far as possible. Clearly, the macroeconomic policies are favourable to EPZ exporters of raw and wet blue hides and less favourable to tanners for processing.

Table 5.3: Cattle hides and skins export, Zimbabwe (1995-2000 average)

<table>
<thead>
<tr>
<th>Items</th>
<th>Mean qty mt</th>
<th>Annual growth rate %</th>
<th>Mean value, US$000</th>
<th>Annual growth rate %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hides wet-salted</td>
<td>1,242</td>
<td>-3.13</td>
<td>1,673</td>
<td>-0.49</td>
</tr>
<tr>
<td>Hides dry-salted</td>
<td>80</td>
<td>?</td>
<td>208</td>
<td>?</td>
</tr>
<tr>
<td>Goatskin wet-salted</td>
<td>135</td>
<td>-6.28</td>
<td>157</td>
<td>-19.88</td>
</tr>
<tr>
<td>Sheepskin with wool</td>
<td>40</td>
<td>3.36</td>
<td>47</td>
<td>-18.31</td>
</tr>
<tr>
<td>Total hides and skins</td>
<td>1,584</td>
<td>3.69</td>
<td>6,491</td>
<td>4.50</td>
</tr>
</tbody>
</table>

Source: FAOSTAT, 2002

5.3 The Sudan

Among the six slaughter houses that cater for export meat, only four are currently operational (Table 5.4). Most cattle meat is consumed domestically while sheep meat is intended for export. The killing rate of these export slaughter houses ranges from 300 sheep/hr to 150 sheep/hr. The cattle killing rate ranges from 50/hr to 30/hr. These slaughter houses also have chilling capacity ranging from 150 tons/day to 20 tons/day.

Table 5.4: Slaughter houses currently operational in the Sudan

<table>
<thead>
<tr>
<th>Name</th>
<th>Site</th>
<th>Killing rate/hr</th>
<th>Refrigeration capacity (tons/day)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Sheep</td>
<td>Cattle</td>
</tr>
<tr>
<td>Kadero</td>
<td>East Kadero Village, 15 km North of Khartoum</td>
<td>300</td>
<td>30</td>
</tr>
<tr>
<td>Western Omdurman (Ghanawa)</td>
<td>West of Abu Seid town</td>
<td>150</td>
<td>50</td>
</tr>
<tr>
<td>Gezira Meat Company (Gemco)</td>
<td>Elgardid Ethawra, 50 km south of Khartoum</td>
<td>300</td>
<td>30</td>
</tr>
<tr>
<td>Assabaloga</td>
<td>Dongola- Omdurman Road, 9 km North of Sug Libya</td>
<td>150</td>
<td>30</td>
</tr>
</tbody>
</table>

There are about 17 tanneries operating in Sudan at the moment, of which 4 have effluent treatment facilities. However, the machineries and technology being used currently are about
20 years old. The tanning sector is estimated to provide employment for about 2000 employees. According to the Chamber of Commerce estimates, the value of finished and semi-finished hides and skins in Sudan in 1999 and 2000 was US$ 13 million, and US$ 20 million, respectively.

There are about 550 footwear workshops which employ less than 10 workers each. There are about 12 footwear enterprises which employ about 10-25 workers each, while those that employ more than 25 workers are 10 in number. As is the case with the leather manufacturing sector, the technology and machinery used in the footwear production is as old as 20 years. Currently, the footwear sector employs about 1000 employees, with an estimated annual production of 7.5 and 5.0 million pairs in 1999 and 2000, respectively. There are only 4 enterprises manufacturing small leather goods, clothing and other leather goods and employ less than 10 workers each, operating with technology and machinery about 20 years old.

Between 1993 and 2000, there was a ban on export of raw hides and skins in Sudan, except for special licensees. The ban was intended to encourage local tanneries. During the ban excess supply of raw hides and skins was being smuggled out or exported by the special licensees. The ban was lifted in January 2000, as a result of the liberalization policy of the government of Sudan. Moreover, after the liberalization policy, prices of raw hides and skins, and leather and leather products is determined by the operation of market forces.

Most abattoirs are privately owned, although the abattoirs are regularly inspected by the Ministry of Animal Resources and Fisheries. Most flayers are licensed by the Department of Hides and Skins under the Ministry. Two divisions exist under the Director General for Quarantine and Slaughter Houses within the ministry. One division is responsible for quarantine services before the animals are slaughtered and the other division is responsible for inspection of slaughter houses to ensure quality of meat, and hides and skins.

Some of the structural problems in the industry are due to the following factors:

5.3.1 Poor quality hides and skins

Sudan is estimated to produce 2.1 million pieces of cattle hides, 8.5 million pieces of sheepskins and 7.0 million pieces of goatskins annually. However, as indicated earlier, the quality of hides and skins in not very good. The loss in value due to quality problems appears to be more serious for hides than skins. Most of Sudan’s cattle hides are of lower grade with 60% categorized under grade 3 or grade 4, suggesting the need to focus on improving quality of cattle hides significantly (Table 5.5). However, most of sheep skins are considered as high grades with 60% categorized under grade 1 or 2. Half of goat skins are graded as grade 1 or 2. Hides and skins traders perceive that most of the quality problems come from the abattoirs due to inappropriate flaying than from diseases and parasites. Lack of skilled manpower to preserve hides and skins is cited as another problem, although abattoirs do not seem to recognize shortage of trained manpower for slaughtering and flaying as a problem.
Table 5.5: Structure of grades of raw hides and skins in Sudan

<table>
<thead>
<tr>
<th>Grade</th>
<th>% Cattle hides</th>
<th>% Sheep skins</th>
<th>% Goat skins</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade 1</td>
<td>10</td>
<td>40</td>
<td>30</td>
</tr>
<tr>
<td>Grade 2</td>
<td>30</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>Grade 3</td>
<td>40</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>Grade 4</td>
<td>20</td>
<td>20</td>
<td>30</td>
</tr>
</tbody>
</table>

Source: ESALIA survey

Hides and skins merchants report that delayed delivery of the raw hides and skins from abattoirs also cause quality problems due to bacteria. Bactericide treatment could alleviate the problem. Normally, hides and skins should be treated within 3 hours of flaying. Abattoirs may not have the incentive to care for the quality of hides and skins since they charge their fees on per animal basis. Lack of awareness of the importance of hides and skins by abattoir employees may also be contributing to the quality problem. Green fleshing is done mostly manually and affects quality due to cuts and holes. The butchers sell the hides and skins to the hides and skins traders, and there is no direct contact between the abattoirs and the hides and skins traders as far as the marketing of the raw hides and skins is concerned.

5.3.2 Management of industries

The Hides and Skins Improvement Center of Sudan was established in 1954. It is mandated to oversee the implementation of hides and skins legislation, give training and determine grades and standards. As a federal institute, the center was operating effectively prior to the decentralization process. After decentralization, however, the effectiveness of the center has reduced significantly due to decline in funding, lack of equipment and facilities, and trained manpower. The center provides practical training to veterinary students and others on flaying, drying, salt treating etc. Training on slaughtering and flaying is given at abattoirs by staff of the center.

Licenses for hides and skins business is issued by municipalities, with the approval of veterinary inspection based on assessment of the premise such as for water supply, storage facilities and manpower. Nowadays, environmental concerns are taken into account in licensing hides and skins traders.

All inspection for quality control is done by the government. Abattoirs give slaughter service and transport export meat to airport. Almost all abattoirs operate below capacity. Export tax of 5% is levied on hides and skins in Sudan. Lack of use of detailed grades and standards is one major problem of the hides and skins sector in Sudan, since hides and skins are graded based on size and weight only. Other quality criteria are not explicitly taken into account. This practice undermines the incentive to improve quality since there is no reward for better quality hides and skins.
5.3.3 Skills and manpower

The government of Sudan is increasingly withdrawing from interventions to improve the leather industry, although it is still active in quality control, grades and standards and extension services. As a result the Leather Association of Sudan was formed to take over the responsibility of taking measures to improve hides and skins.

The National Leather Technology Center in Khartoum, a government institute which has been operating since 1963, gives short term training on leather technology and conducts research on leather production. It provides training on leather manufacture, footwear design and development and quality control. It operates under the Department of Industrial Research and Consultancy Center (IRCC). Several Sudanese universities also provide training in leather technology. For example, Gezira University College of technology gives training in leather technology.

For updating workers skills in the hides and skins, and leather sectors, fellowships from UNIDO, FAO, CDE, and the EU are sometimes available, although declining significantly now. A proposal on capacity building in the leather sector has been proposed to UNIDO. For product quality improvement, there is a joint committee with the Sudan Corporation for Standards and Meteorology. An assistance from CDE-EU-UNIDO to upgrade the capabilities of staff and managers is being expected.

5.3.4 Market situation and production costs

While the liberalization of the domestic market for hides and skins, leather and leather products and foot wares is a good news for the sector, competition by low cost imported products which are smuggled to the country is considered a major problem for the development of the sector. Sales and promotion of products is done in local markets, regional trade fares, international trade fares and through the internet. However, promotion is considered inadequate. With improvements in quality, the export market for raw hides and skins appears to be large.

There appears to be strong labour union in Sudan, although abattoirs, tanners and merchants do not complain about labour cost. However, tanners and skin and hides processors complain of the high rate of electricity cost. Tanners also consider that taxes which include central, state, local, value added, and profit are high. Moreover, pricing by customs for tax purposes is considered to be sometimes unrealistic.

5.4 Senegal

There are 8 public slaughter houses that have cooling places currently operational in Senegal. However, there are no private slaughter houses. There is a plan to transfer a slaughter house from Dakar to one of the livestock producing pastoral areas. A new slaughter house is expected to be established in a place called Tuba. About 50% of the cattle slaughtered is
handled in slaughter houses, while 35-40% of goats and sheep are slaughtered in slaughter houses.

The abattoirs (slaughter houses) charge fees for providing slaughter services. The butchers sell the hides and skins directly to the hides and skins merchants, who then export the product or resell them to domestic tanneries. Hence, the abattoir service, the meat trade, and the hides and skins trade remain essentially separate.

Due to the intense competition among hides and skins traders, merchants pre-finance butchers as an advance payment to collect the hides and skins. The lack of strong organization of the sector and the involvement of unlicensed traders is considered a bottleneck to the development of the sector.

Most tanneries in Senegal operate below capacity. The major reason for their under capacity operation is lack of adequate supply of raw hides and skins. For example, TANFA S.A., one of the Senegalese tanneries, operates 1/5 of its capacity for skins and 2/3 of its capacity for hides. Most other tanneries are reported to operate 2/3 of their capacity. Some of the reasons are as follows:

5.4.1 Poor quality hides and skins

As mentioned earlier, quality is a major problem of hides and skins in Senegal due to several factors in the production chain. Grading and standards for hides and skins in the country is not very well developed. Traders mostly categorize the raw hides and skins in to two: acceptable and reject, although the tanneries use a more detailed grading and standards. It is estimated that 3-4% of hides and about 5% of skins are categorized as rejects. The lack of detailed grading and standards should obviously undermine the incentive for producers to strive for high quality products. The lack of such incentive reduces the overall value of the hides and skins in the country. However, traders appear to be willing to pay for differentiated products in order to satisfy the quality requirement for export.

The lack of effective organization of the sector also has effect on the quality of hides and skins, since unlicensed people are able to participate in the market without fulfilling the necessary minimum skill requirements. Availability of skill is one requirement for obtaining licenses in the hides and skins business. Inadequate facilities for proper slaughtering and flaying and outdated technologies are also other causes of quality problems.

5.4.2 Management of industries

After an export monopoly by a public organization known as SERAS (Society for the Exploitation of Animal Resources) until 1990, the hides and skins, and leather sector is completely privatised at the moment. However, the government attempts to influence the price of meat. SERAS is currently involved in management of abattoirs and hides and skins trade, among others. SERAS produces and markets primary livestock products such as hides, skins, horns and tails, and bone flour. SERAS has a nationwide network for collecting hides and skins. SERAS collects and processes an average of 180,000 hides; 350,000 goat skins;
and 350,000 sheep skins annually, of which about 95% is exported. The ownership of SERAS is shared by private share holders (70%), the state (25%), and employees (2%).

Currently, a semi-government organization known as SOGAS is mandated for the control of slaughter houses and inspection of meat, and hides and skins quality in Senegal. SERAS owns 51% of the share of SOGAS, while 49% of shares belongs to private shareholders.

There have been attempts to create a national association within the frame work of the West African hides and skins exporters association which was formed in 2001 in order to take collective measures to improve the operation of the sector.

5.4.3 Skills and manpower

Dakar hosts a veterinary school that caters for 10 West African countries. Unlike most veterinary schools in Anglophone Africa, the veterinary schools in Francophone Africa do not focus exclusively on veterinary medicine. Several production courses and courses on hides and skins are taught by the program. The veterinary doctors are trained on practical aspects of slaughtering and flaying techniques, abattoir management, and meat inspection, in addition to health. The veterinary doctors in turn train middle level veterinary assistants, and animal husbandry assistants who work at the village level. There is limited foreign assistance for training in the hides and skins sector in Senegal.

However, there is no formal lower or middle level training for slaughtering and flaying, nor for handling and processing of hides and skins. The skill appears to be transferred traditionally through generations. This is one area where government or the private sector may need to initiate a training service in order to improve the quality of hides and skins in the country. The only hides and skins school in West Africa is located in Nigeria. Radio programs on hides and skins diseases and their control, and handling of hides and skins are broadcast on the national radio. The availability of market information is expected to increase the efficiency of the operation of the hides and skins market.

5.4.4 Market situation and production costs

The hides and skins business in Senegal is very dynamic at the moment. After liberalization, competition in the sector is stiff. While the liberalization of the skins and hides sector should in principle contribute to more efficient operation of the sector due to the competitive atmosphere it creates, the lack of effective organization and public control discourages business enterprises who face competition from unlicensed businesses.

Market information on hides and skins and the lather sector is broadcast every week on public media such as radios and television programs. In addition, several newspapers also publish price and other market information regarding the sector. Hides and skins exporters are subject to pay export tax. Although there is no price control of hides and skins, the government attempts to influence the price of meat.
6. Investment Environment and Related Policies

6.1 Tanzania

In theory there are few serious start-up difficulties for new investors in Tanzania. The Investment Centre is apparently well organized and tries to be helpful. However, leather is not yet a priority sector like textiles, mining and tourism under the current industrial development strategy, so local entrepreneurs and foreign investors interested in joint ventures are not yet fully attracted to the leather sector. Local private entrepreneurs are not perhaps adequately experienced in the sector and they also apparently have a short-term trading mentality making them reluctant investors in a sector that is subject to global market fluctuations and competition. Absence of a clear policy in relation to this sector may also be a source of lack of interest. Nearly all the current investors in the leather sector, principally those who bought the privatized enterprises, are Asian, though some of them have long standing businesses in Tanzania or in the region. However, in the absence of clear priorities and policy support to the sector, these investors are also not able to make significant impact.

Capital cost is also high – 20% or more – which has been the result of past poor repayment practices driving up the risk factor for lenders. Tanning is an industry with high potential pollution unless appropriate control measures are taken. To conform with current pollution control laws requires expensive treatment plant, and treatment cost may outweigh other capital investments. When the parastatal enterprises were privatized, some were given financial support to improve pollution control facilities. Yet they did not function properly.

Private investors in the sector requiring to deal with the government for licenses and other regulatory issues have to interact with several ministries and departments due to division of mandates. The Ministry of Agriculture overseas the value chain from animal production to tannery, the Ministry of Water and Livestock Development also oversees the livestock markets, market routes and abattoirs, while the Ministry of Industry has authority from tannery to other stages in the chain. The city municipal councils also have control over slaughter houses. The Investment Centre, an autonomous body, is supposed to harmonise the activities of different ministries but often the policies and procedures pursued by these different ministries and bodies are not well coordinated, making the investment process time consuming. Sometimes it is difficult to get a license for investment where competition may be involved with parastatal or cooperative organizations. Also some investment incentives may be announced by the Investment Centre but may not be actually followed by the individual ministries involved, e.g. the investment center may announce that no duty will be charged on imported equipment to be used for producing products for export but the Revenue Authority may not follow that. There is no duty draw back for imported equipment to be used for export production. Duty drawback for exported products is seen to be very slow and often not worth the extensive effort required to apply for and receive it. It is also reported that the minimum duty value specified by government is often not related to the real value of the import, which in reality should be determined by pre-shipment inspection.
6.2 Zimbabwe

Both local and direct foreign investment made the Zimbabwean hides and leather industry vibrant and efficient. After independence, investment policies were supportive of expansion of the industry. As a result there has been a vibrant development of the industry with the tanning sector closely linked to footwear and leather products manufacturer. However, recent land resettlement policies coupled with restrictions from the global market and donor agencies have made the economy somewhat unstable, even if temporarily. High inflation, over valued currency, restrictions on foreign exchange uses are apparently discouraging new investment and also re-investment to upgrade existing technology. It was mentioned earlier that 40% of export earning is to be surrendered to the central bank at official exchange rate and the remaining 60% can be used for importing raw materials. However, industry operators alleged that 40% in local currency is inadequate to pay wage bills and other running costs while 60% is inadequate for importing raw materials and high cost machinery for upgrading technology, hence the technology is falling behind.

Also high inflation, existence of a parallel market encourages unofficial cross border trade in leather goods, mainly shoes, which also adversely affect the leather goods enterprises to compete efficiently in the market.

6.3 The Sudan

The skins and hides sector and the leather industry is important in the economy of Sudan. After the government’s policy to privatize the Sudanese economy, the hides and skins sector and the leather industry is increasingly being privatized, with the government lifting its control over the sector. Previous public interventions to improve the performance of the sector are being left to the private sector itself. Price of hides and skins, leather and leather products is also determined by the operation of market forces.

After denationalisation and market liberalisation, the tax and customs regulations have become more supportive of investment in the sector. Tax and customs measures are offered to ease the purchase and importation of modern machinery. Investment act provides tax free capital goods and machinery, tax holidays for 5-15 years, and constant low tax for projects worth over US$10 million.

6.4 Senegal

The hides and skins, and leather sectors in Senegal is being increasingly privatised. Until 1990, export of hides and skins was held monopolistically by a government parastatal, the Society for the exploitation of Animal Resources (SERAS). In 1990 the government of Senegal privatised production and commercial aspect of the hides and skins, and leather sectors. The privatisation has brought in new competition into the sector, which should
possibly contribute to a more efficient operation of the sector. However, along side the privatisation, there appears to develop organizational problem and less effective public control of the operation of the sector. Government laws and regulations pertaining to the sector do not seem to be effectively implemented, and black export markets of hides and skins exist. There is also an increasing awareness of the value of hides and skins among the public. People that used to even throw away hides and skins during holidays, are increasingly supply the products to the market.

Investors interest in the hides and skins sectors in Senegal appears to be increasing. This increase in interest is bringing in new capital with the establishment of new enterprises and creating additional employment opportunities.
7. Initiatives for improvement

7.1 Tanzania

7.1.1 Government initiative

The poor performance of the industry after privatization was contrary to expectation, which led the government to seek assistance of the UNIDO in 1998 to diagnose problems and develop a strategy for revitalization of the industry. After an in-depth study, the UNIDO identified a set of problems similar to those described earlier and made a set of recommendations including the following:

- A meaningful strategy for revitalization of the sector should begin with the upgrading of the quality of hides and skins through both long and short term actions covering all stages of the hides and skins chain, i.e. animal husbandry, disease control, slaughtering, preservation, storage, grading and pricing, laws and regulations.
- In order to facilitate a common approach to the elimination of the current bottlenecks and implementation of appropriate revival measures, all stakeholder in the industry – government authorities, donor agencies, leather associations and enterprises – should be involved in formulating and implementing a comprehensive action plan.
- Government intervention is required on macro-economic issues such as taxation, import control, provision of incentive package to investors.
- Revisit the privatization process and take measures in relation to the non-functioning private plants including inviting new investors or joint venture partners from abroad who have the skills and resources to make the plants workable.
- Give high priority to human resource and skill development for the sector by revitalizing the Institute of Leather Technology by transferring it to the LAT for leasing to a private entrepreneur or company for operating it as both a production and training unit so as to become self-sustaining.
- Strengthen the LAT by updating its constitution and creating office facilities.
- Review and amend existing laws and regulations affecting hides and skins trade and the industry for better performance.
- In order reverse the trend of raw hides and skins export and encourage their use in the domestic industry for value added processing for domestic market and export, impose an export levy on raw hides and skins export, put the proceeds under a ‘Leather Development Scheme’ to facilitate hides and skins improvement activities and provide incentives to exporters of processed leather with added value. A levy of 2% of export value of raw hides and skins could be imposed subject to review after one year. (Kenya had at that time a levy of 2% on raw hides, 1% on wet blue and 0.1% on finished leather).

Practically none of these recommendations have been implemented except one project undertaken with UNIDO/CFC support to improve hides and skins grading and pricing system (see below). The efficacy of some of the recommendations may also be questioned. For example, some countries provide incentives, e.g. export subsidy on processed leather while
tax on raw hides export, to encourage value added processing but this may not be effective in the Tanzanian situation. If export duty is imposed on raw hides export, effective price at slaughter houses and collection points in rural market town would perhaps be even lower, which may provide further disincentive for careful handling of hides. Also effective price of animals to producers may decrease. Unless other measures to provide incentive to produce better quality hides can be implemented, export duty alone may not solve the problem of exporting raw hides.

The Leather Association of Tanzania (Leather Sector – Plan for Revitalisation, 16 January 2001) proposed in January 2001 to the government several measures for revitalization of the industry as follows:

- Impose 12% duty on export of raw hides and skins and use the revenue for encouraging local industries for processing leather.
- Encourage local processing by offering an export incentive of 6% on wet blue export for a specific period of say three years.
- Allow duty free import of tanning chemical as most of the products from the industry is exported.

These proposals have also not been implemented.

7.1.2 The UNIDO/CFC project

Poor quality hides and skins is a common problem in the East and Southern Africa region. CFC funded a project through the East and Southern African Leather Industries Association, based in Nairobi, to assist Tanzania, Ethiopia, Kenya and Zambia, in improving the hides and skins grading and pricing systems. The project has a total budget of US$3.2 million including a grant of US$1.4 million by the CFC. The project is based on the premise that better grading system at supply sources (slaughter points or even at producer level) and price differentiation based on grade will encourage better handling of hides and skins leading to overall quality improvement and revenue for the entire chain.

The project has four components: technical assistance for grading by quality and pricing system, technical assistance to national associations at country level, institution building and establishment of a leather technology training institute, and technical assistance at the regional level for project coordination and management (FAO, 2001).

The Tanzania component of the project was launched in January 2000 with a view to improve grading of raw hides and skins through provision of training, information dissemination and slaughter kits which include, knives, grading norms. The LAT local office serves as the coordination office of the project. Table 7.1 shows the prevailing grade structure at the time of the launching the project and also the target to be achieved by the end of the project.
Table 7.1: Estimated hides grade structure in January 2000 and target structure by end of the project

<table>
<thead>
<tr>
<th>Grade</th>
<th>% of supply in 2000</th>
<th>% of supply end of project</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>2</td>
<td>20</td>
<td>24</td>
</tr>
<tr>
<td>3</td>
<td>35</td>
<td>35</td>
</tr>
<tr>
<td>4</td>
<td>30</td>
<td>26</td>
</tr>
<tr>
<td>Reject</td>
<td>5</td>
<td>3</td>
</tr>
</tbody>
</table>

Source: CFC project, 2001

During the first year of its operation, it has reportedly held workshops and meetings with various stakeholders and people from different part of the value chain, distributed flaying knives among butchers, a grading manual as well as carrying out other activities. Initial indications are that as a result of these efforts, in some slaughter points slaughter defects have reduced from an average of 9 holes to 2 and grade structure has changed to 12% for grade 1, 23% for grade 2, 30% for grade 3 and 4, 5% for reject. However, discussions with the tanneries indicated that these improvements were related to specific slaughter points as the general situation in the system remains poor.

The ESALIA, the executing agency of the project reported that a Slaughter House Index has been developed based on selected criteria related to quality of hides and skins produced in order to differentiate quality of slaughter houses. The index could be used by raw hides and skins traders, tanners, international leather business to peg a price to the material from a particular slaughterhouse. This should also promote competition among slaughterhouses to improve quality and raise the index. Moreover, a set of grading standards have been developed based on the UNIDO/FAO guideline (ESALIA & CFC, 2000) and a quality certification stamp has been designed and registered for use as a marketing tool by tanners who follow the project’s grading guidelines to differentiate them from those who do not follow the guidelines (FAO, 2001). However, apparently neither the slaughterhouse index nor the quality stamp is in use in Tanzania yet though information on these have been disseminated.

7.1.3 Task force suggestions for improvement

A task force has been formed by the government involving various stakeholders early this year to review the problems in the industry and recommend solutions. The task force took into account earlier findings by various agencies, identified a set of problems and made a set of recommendations as in Table 5. These are still under review by the government.
Table 7.2: Programme for revitalisation of leather sector in Tanzania: Action plan recommended by a task force

<table>
<thead>
<tr>
<th>Problem</th>
<th>Causes</th>
<th>Action to be taken</th>
<th>Resources Required</th>
<th>Actors (*lead actor)</th>
<th>Time Frame</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Poor Quality of hides and skins</td>
<td>• Poor animal husbandry practices &amp; diseases</td>
<td>• Improve extension services and diseases control</td>
<td>• Staff</td>
<td>MoWL*</td>
<td>Short Term</td>
</tr>
<tr>
<td></td>
<td>• Inappropriate branding</td>
<td>• Improve extension services and enforcement of the law</td>
<td>• Funds</td>
<td>MoH</td>
<td>Long Term</td>
</tr>
<tr>
<td></td>
<td>• Lack of appropriate slaughter facilities &amp; tools</td>
<td>• Improve slaughter facilities according to the law</td>
<td>• Tools</td>
<td>MoRLG</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Poor slaughter practices &amp; skills</td>
<td>• Promote/upgrade of slaughter facilities</td>
<td></td>
<td>Donors</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Poor storage &amp; preservation techniques</td>
<td>• Impose export levy for the establishment of Leather Development Fund</td>
<td></td>
<td>Stakeholders</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Lack of grading knowledge &amp; skills</td>
<td>• Capacity building and training</td>
<td></td>
<td>TBS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Outdated hides &amp; skins law</td>
<td>• Education &amp; enforcement of appropriate law</td>
<td></td>
<td>Tanneries</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Review the existing laws</td>
<td></td>
<td>LAT</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Technical assistance &amp; rehabilitation of factories</td>
<td></td>
<td>Other Stakeholders</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Review tariffs on imported inputs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Strict scrutiny and review conditions of investors</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Impose export levy for the establishment of Leather Development Fund</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Sensitise people about the banking opportunities available e.g. export credit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>schemes, commodity funds etc.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• As action on (1) above</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Funds be made available for investment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>in the leather sector and encourage industrialization process (UNIDO)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Establish Leather Development Funds</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Low capacity Utilization of Tanneries</td>
<td>• Outdated technologies &amp; worn-out equipment</td>
<td>• Initiate training &amp; rehabilitation of factories</td>
<td>• Staff</td>
<td>MIT*</td>
<td>Short Term</td>
</tr>
<tr>
<td></td>
<td>• High tariffs on imported inputs</td>
<td>• Review tariffs on imported inputs</td>
<td>• Funds</td>
<td>MoF</td>
<td>Medium Term</td>
</tr>
<tr>
<td></td>
<td>• Lack of committed investors</td>
<td>• Strict scrutiny and review conditions of investors</td>
<td>• Various equip-ment</td>
<td>Plancom</td>
<td>Long Term</td>
</tr>
<tr>
<td></td>
<td>• Lack of working capital</td>
<td>• Impose export levy for the establishment of Leather Development Fund</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Lack of good quality hides</td>
<td>• Sensitise people about the banking opportunities available e.g. export credit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Lack of industrial oriented skills</td>
<td>schemes, commodity funds etc.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Lack of incentive package</td>
<td>• As action on (1) above</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lack of Capital &amp; imports</td>
<td>Competition of local products &amp; imports</td>
<td>Weak LAT</td>
<td>Lack of Technical personnel</td>
<td>Poor coordination in policy making</td>
</tr>
<tr>
<td>---</td>
<td>---------------------------</td>
<td>----------------------------------------</td>
<td>----------</td>
<td>-----------------------------</td>
<td>----------------------------------</td>
</tr>
</tbody>
</table>
| 3. | • High cost of financing  
    • Lack of finance management knowledge | • Trade liberalisation  
    • Lack of good quality of finished leather  
    • Low capacity utilisation of tanneries | • In-effective Leadership  
    • Lack of financial resources  
    • Lack of committed members | • TILT not functioning  
    • Lack of funds | • Various Ministries involved in this sector |
|   | • Provide incentives to attract suitable investors  
    • Sensitize the community on finance management (training)  
    • Encourage partnership | • Review tariffs for imported leather products  
    • Provide incentive to local producers  
    • As in problem (2) above  
    • Establish Leather Dyeing Units | • Review the constitution of LAT  
    • Conduct fresh election  
    • Improve financial resources  
    • Carry out a sensitization programme of LAT  
    • Establish Leather Development Fund | • TILT to be revitalised for human resource development  
    • TILT to be production cum training centre  
    • Implement Kiruthi/Calabro Report  
    • Mobilise funds for human resource development | • Establish coordination mechanism  
    • Involve stakeholders |
|   | • Technical staff  
    • Funds | • Staff  
    • Funds  
    • Tools | • Staff  
    • Funds  
    • Tools | • Staff  
    • Funds  
    • Equipment | • Meetings  
    • MoWL*  
    • MIT  
    • Stakeholders |
|   | • MoF*  
    • MIT  
    • Donors  
    • Stakeholders  
    • LAT | • MIT*  
    • MoF  
    • Stakeholders  
    • TIC  
    • Donors | • MIT*  
    • Stakeholders  
    • Donors  
    • Members  
    • MoWL  
    • CTI  
    • TCCIA | • MIT*  
    • Donors  
    • Stakeholders | • Meetings  
    • MoWL*  
    • MIT  
    • Stakeholders |
|   | • Short Term  
    • Medium Term  
    • Long Term | • Short Term  
    • Medium Term  
    • Long Term | • Short Term  
    • Medium Term | • Medium Term  
    • Long Term | • Long Term |
7.2 Zimbabwe

The Leather and Allied Industries Federation of Zimbabwe (LAIFEZ) has recently undertaken a review of the situation in the industry and made a set of recommendations to the government (LAIFEZ, 2002). The following have been recommended for immediate measures:

- Export of wet blue hides must be very carefully controlled (not banned) with local tanners being offered a minimum of 50% of all raw hides available as agreed at Hides Technical Committee. This has to be reviewed at regular intervals to provide optimum support to local industry.
- Third part contract clients (abattoirs) must prove that they have supplied local tanners with the requisite percentage of raw hides before they are allowed to export.
- Remove 10% tariff on export of raw and wet blue hides.
- ZIC/EPZ Authority should consult local industry before granting new tannery licenses.
- Persuade small-scale and communal farmers to sell cattle on a regular basis to optimise feed use and supply more hides.
- Resettled small-scale ranchers be allocated sufficient land with freehold title for commercial livestock breeding. Breeding of commercial cattle requires 4-6 hectares per head with minimum herd of 50 beasts but preferably a larger herd to be profitable.

The following recommendations have been made for long-term strategy:

- Resettlement exercise should make provision for the retention of existing farmers who are recognised as among the best in the world.
- Farms should be no less than 1500-2500 hectares for economically viable commercial herd of 300-500 beasts. They can be run as cooperatives. In the Lowveld areas, cattle require 8-10 hectares per beast.
- It takes 3-5 years of intensive, specialised farming to breed cattle for the meat market, so will require substantial long-term funding.
- Farmers should be persuaded to purchase suitable pedigree cattle that will be readily marketable for the export beef market, and produce good quality hide.
- Implementation of training programmes on rearing of high productive cattle, animal husbandry and veterinary awareness.
- Introduce the hide improvement programme for newly settled farmers in collaboration with overseas donor(e.g CFC) and LAIFEZ.

These recommendations are still being discussed and considered by the government.

7.3 The Sudan

(there are recommendations but need to identify in on-going initiative before recommendation, so please rearrange if possible)

The major problems confronting the hides and skins sector and the leather industry in Sudan include poor quality of raw materials and products; and lack of skills, technology, intermediate inputs, processing facilities and relevant information. There is also low recovery of hides and skins in the country.
CDE and EU interventions are ongoing in the Sudan to upgrade the quality of manpower in the hides and skins sector and improve the quality of hides and skins, and leather products. Moreover, CFC quality improvement and grading project is currently underway in the country aimed at improving and developing the hides and skins, and leather sector. There is also a plan to revive the leather development projects with UNIDO, FAO and other agencies. However, compared to the needs of the sector, these interventions appear quite inadequate.

Grades and standards improve the value of products by providing incentive to produce higher quality products and undermining the incentive to produce lower grades. As indicated above, detailed grades and standards are not used in the Sudanese hides and skins sectors, with several quality criteria left out of grading and standards by merchants. Therefore, instituting more detailed grades and standards is another area that deserves immediate attention in order to improve the performance of the sector.

Several measures are required to exploit the full potential of the hides and skins, and leather industry in Sudan. Hence, there is a need for an integrated policy framework for the industry to develop and be more profitable. However, the most immediate pressing needs for improvement and development of the sector are skills upgrading and access to markets. As mentioned above, the government, as part of its liberalization policy, is increasingly withdrawing from interventions to improve the performance of the sector. The government owned Hides and Skins Improvement Center, the only one of its kind in the country, is becoming ineffective due to lack of resources and manpower. The private actors in the hides and skins, and leather sector also appear to be willing to pay for improvement measures. A privately run institute to cater for services to improve the performance of the sector may need to be established in the country. Such an institute may first be established as a project initiative supported by external funding, and let to eventually evolve in to a fully domestic funded institute.

Efforts also need to be made to improve access to overseas markets. Exporters may need to be involved in more regional and international trade fares. Increased use of the internet to advertise and promote Sudanese hides and skins, and leather and leather products may improve market access. A closer working relationship with regional and international bodies involved in the leather industry such as the EAST and Southern Africa Leather Industries Association (ESALIA), Common Market for East and southern Africa (COMESA), The United Nations Institute for Industrial Development (UNIDO), FAO, the Common fund for Commodities (CFC), the center for development Enterprise (CDE) could contribute to the improvement of the sector.

7.4 Senegal

Same as Sudan

The international community has been providing technical assistance in the field of hides and skins and their derived products in Africa. FAO has been active in the improvement of hides and skins, and is a major source of statistical data. On the other hand UNIDO has been active in the improvement of leather and leather products, and information technology and provision of price and other market information. However, unlike in the East and Southern Africa countries, projects that were designed for West African countries have not been implemented due to unavailability of funds. Hence, Senegal has not benefited from international funding and assistance for the improvement of its hides and skins, and leather sectors.
The major problems confronting the skins and hides, and the leather sector in Senegal include problems of organization and ineffective public control of the operation of the sector; inadequate technology and facilities for proper slaughtering and flaying; poor preservation, handling and grading techniques; remoteness of livestock production areas and insufficient transport facilities; lack of awareness among the primary producers regarding the economic value of hides and skins; lack of market information; and poor or non-existent training facilities. Low recovery rate of raw hides and skins is another problem that deserves attention. Any initiative for improvement needs to take account of these major problems.

Environmental pollution due to salt used for preservation, arsenical and organ chlorine based insecticides used while storing hides and skins is also a serious problem in Senegal. Tannery operations wash out these chemicals and contaminate ground and surface water, and degrade agricultural land. Environmental concerns by importing countries may lead to import ban.

References


Annex: List of people and firms visited in the case study countries

Tanzania (19-21 May 2002)

1. Dr J N Melewas, Regional Livestock Adviser, Ministry of Agriculture, PO Box 5429, Dar es Salaam.
2. Dr A J Kileo, Veterinanrian, Dar es salaam City Council (or Municipality), PO Box 31902, Dar es Salaam.
3. Dr S O Singa, Veterinanrian, Dar es salaam City Council (or Municipality), PO Box 31902, Dar es Salaam.
4. Dr P J Henjewell, Veterinanrian, Dar es salaam City Council (or Municipality), PO Box 31902, Dar es Salaam.
5. Mr Dominic B Massawe, National Project Manager, Tanzania Livestock Marketing Project, Ministry of Water and Livestock Development, Dar es Salaam, 1st Floor Ex LIDA House, Nakrumah Street, PO Box 9153, Dar es Salaam.
6. Mr Alawi Sharif, Lake Trading Co., Kibaha Tannery, PO Box 744, Dar es Salaam.
7. Mr Azim S Mawji, Afro Leather Industries Ltd, Po Box 1414, Dar es Salaam.
8. Mr Aziz, Slaugter House owner  ????
9. Mr E J Muyinga, Secretary, Tanzania Leather Association, Po Box 9182, Daes Salaam.
10. Mr. P.V.S Rao, Tanner and Trader (Ruambuzi Ltd PO Box 18315, Enterprise, Nairobi)

Zimbabwe (23-25 May 2002)

1. Munyaradzi Betera, Manager, Deraswiss Zimbabwe (Private) Limited, P O Box BW 1452, Borrowdale, Harare, Zimbabwe
3. T. Chitauro, Principal Mkt Econ., Ministry of Lands, Agriculture & Rural Resettlement, P Bag 7701, Causeway, Harare, Zimbabwe
4. S. Choga, Officer, Department of Veterinary Services, P O Box CY 66, Causeway, Harare, Zimbabwe
5. Ramji Govan, Chief Buyer, The Zimbabwe Bata Shoe Company Limited, P O Box 279 Guweru
7. Mrs. Christine Jardim, Director, Hides & Skins Collectors (Private) Limited, P O Box 1312, Harare, Zimbabwe
8. Dr. Wellborn Madzima, Deputy Director, Department of Veterinary Services, P O Box CY 66, Causeway, Harare, Zimbabwe
10. Francesco Marconati, Director, Traverse Investments (Pvt) Ltd., 91 Piers Road, Borrowdale, Harare, Zimbabwe
11. E. Maroodza, Farmer
13. Aidi Mbagarira, Depot Manager, P O Box 8399, Belmont Bulawayo
17. N D Miller, Finance Executive, Superior Holdings (Pvt) Ltd (Impomente Tanning)
18. Mrs. S. Shuro, Director, Fish Eagle
20. N. Chinogaramombe, Finance Director, Cold Storage Company Ltd, PO Box 953, Bulawayo, Zimbabwe.

The Sudan (June 4- 8)

1. Dr. Ahmed Hag Elsheihli Abbo, Leather Chamber, Khartoum
2. Dr. Abdelhalim Mohamed Kheir, Head of Slaughter Houses Department, State of Khartoum, Ministry of Animal Resources and fisheries
3. Dr. B.M. Mongash, Manager, Kadaro Slaughter House, Khartoum
4. Dr. Osman Elhadri, Production Manager, Elsabaloga Abattoir, Khartoum
5. Dr. Mamoon Ahmed Fazaa, Head, Department of Meat inspections, Ministry of Animal Resources and Fisheries, Khartoum
6. Dr. Issam Fadllala Ahmed, General Manager, West Omdruman Abattoir, Khartoum
7. Mr. Abdelhaman Elsawi, General Manager, Sawko hides and skins trading company, Khartoum
8. Mr. Marwan Abdalla Osman, Manager, Summer Sun company (Tannery), Khartoum
9. Mr. Yousif Adam Yousif, Deputy Chairman, Leather and Footwear Chamber, and General Manager, Nabta Shoe Factory, Khartoum
10. Mr. Ibrahim M. Sid Ahmed, Acting General Manager, W.N. Tannery, Khartoum
11. Mr. Amir Muzamil Elkobani, Chairman, Leather and Footwear Industries Chamber, Khartoum
12. Mr. Hamza Yassin, Hides and Skins Merchant, Khartoum
13. Dr. Mohammed Sir Elkhatim, Director General, Animal Production Development Directorate, Ministry of Animal Resources and Fisheries, Khartoum

Senegal (14-18 June)