Cassava Utilization and Marketing in Coastal Kenya

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Introduction

Energy deficiency and malnutrition are widespread in developing countries (ITA, 1995). In Kenya, the Coast province (map 1) is particularly vulnerable to food shortage. Over one quarter of the children are malnourished in the province (Nicholson et al., 1999) whose poverty level is as high as 62% (IEA, 2002). Table 1 shows the food deficit situation in the province.

<table>
<thead>
<tr>
<th>Table 1: Food production and deficit in Coast Province</th>
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<tbody>
<tr>
<td>Commodity</td>
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<td>-------------</td>
</tr>
<tr>
<td>Cereals</td>
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<tr>
<td>Meat</td>
</tr>
<tr>
<td>Milk</td>
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<td>Eggs</td>
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Source: State of the art document 1999, KARI-Mtwapa

Cassava is the second main staple food at the Coast and is becoming a major cash crop (Munga, 2000), hence has the potential of alleviating poverty. It yields 5-10t/ha while the potential is 32t/ha (Munga, 2000).

Use of cassava as a cash crop could increase its production to full potential. This requires cassava processing into quality end products. A survey on the utilization and marketing of cassava was done in 2003 targeting farmers and small-scale cassava processors. The objectives were to:

- identify desirable cassava attributes for utilization
- identify and document the existing processing technologies
- assess the level of use of cassava as a livestock feed, and
- identify areas of training on processing and post-harvest handling.

Materials and Methods

- A cassava enterprise survey was conducted in four districts of the Coast Province in 2003.
- Questionnaires were administered to farmers and small-scale processors in the target region.
- Farmers from the main cassava growing areas were identified by agricultural extension staff according to Lelo et al. (1995).
- They were selected at random within sites.
- Processors were interviewed at their business premises.
- A total of 179 farmers and 44 processors were interviewed.

Results and Discussion

Utilization at farmer level

The difference in the percentages of farmers using the three cassava utilization forms was highly significant (P<0.01) (Fig. 1). Cassava chips were consumed as a whole meal, flour from pound or ground makopa was used for the preparation of ugali, and young leaves were used as vegetable.

Most processing was done manually. To reduce human labor on pounding, farmers need to be encouraged to use modern hammer mills.

Preference for taste as a home utilization attribute was significantly (P<0.01) higher than for all the other attributes (Table 2). Early maturity as a growing attribute was particularly important.

<table>
<thead>
<tr>
<th>Table 2: Qualities preferred by farmers utilizing cassava at home</th>
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<tr>
<td>Attribute</td>
</tr>
<tr>
<td>Taste</td>
</tr>
<tr>
<td>Low crude fiber content (CF)</td>
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<tr>
<td>Cooks well</td>
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<td>Low CN</td>
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<td>LSD (0.01)</td>
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</table>

NB: Numbers bearing the same superscript are not significantly different (P>0.01)
LSD (0.01) = Least significant difference among attributes

Marketing at farmer level

Most farmers sold some cassava with more sales occurring at the farm gate (Fig. 2).

Marketing at processor level

Since many or farmers soak cassava tubers, the potential of cassava as a cash crop exists. Farmer training is needed on tuber handling, making clean quality makopa, and making alternative products (bread, composite flour) for better incomes.

Utilization at processor level

Small-scale processors made chips, crisps and flour (Fig. 3), mostly by themselves (Table 3).

References


