República de Moçambique
Ministério da Agricultura
Instituto do Algodão de Moçambique

11th SEACF MEETING
Nyeri-Kenya 27th August 2012

MOZ COUNTRY REPORT

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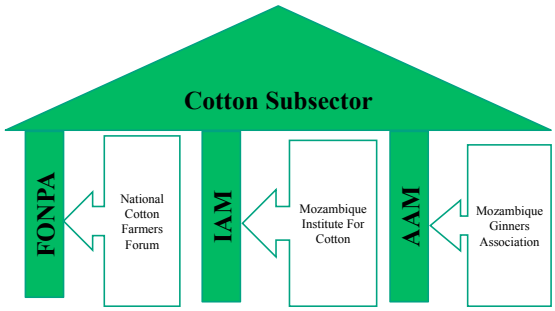

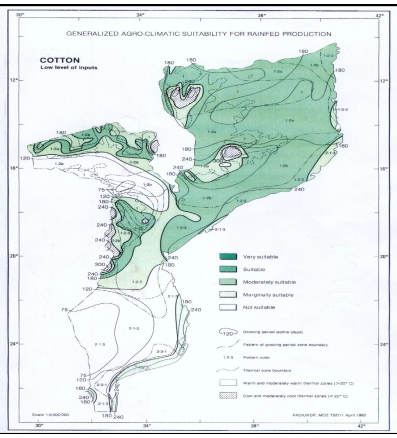

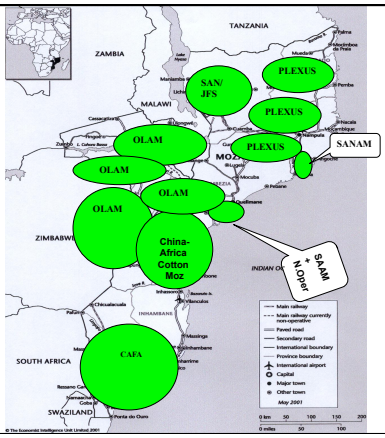

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Season 2011/12

- ✓ Planting period: Sawing in Nov/Dez and harvesting in April/May**;**
- ✓ Number of cotton company: 14;
- ✓ Number of farmers: 300.000;
- ✓ Planted area : 200,000 ha;
- ✓ Average yield: 500 kg/ha (de 450 a 850 kg/ ha);
- ✓ Seed cotton: 85.000 t (projection) but record in 2005/06 (122.000 ton);
- ✓ Cotton lint: 32.000 t (projection);
- ✓ Cotton seed: 49.300 t (projection); and
- ✓ 100% of lint exported by merchants;

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GENERAL INFORMATION

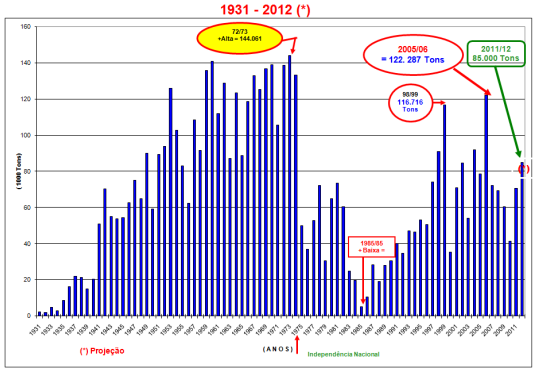
- **Source of income for 300,000 families (more than 1,500,000 inhabitants depend on this crop)**
- **20% of agricultural sales**
- **Source of foreign currency, $ US 35 Millions (2010/11)**
- **3rd export agricultural product after tobacco, sugar and 4th export product in general**
- **Infinity of services a long the production chain, great dynamizer of the rural economy**
- **Create more than 20,000 employees, including the seasonally employments**
- **14 companies have in cotton the main activities (capital investment more than $ US 5 Millions USD each)**
- **2 big multinational companies (PLEXUS and OLAM)**

Cotton Lint

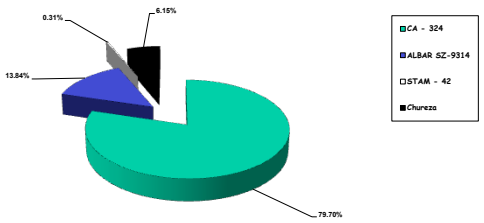
- In Mozambique all cotton lint obtained at the ginneries must be classified by IAM classifying rooms (classification under SICT method in installation process)
- The Mozambique lint is exported as a result of discontinued spinning industry in the country although the country had one of the most developed industry in Africa.
- The lint grads are: Extra-(GM) , I-(SM), II-(MPlus), III-(MVLS), IV-(SLMLS), V-(SLMS), VI (LMLT), Inferior-(Below Grade). Predominantly Grade III.

Evolution Seed Cotton Production in Mozambique

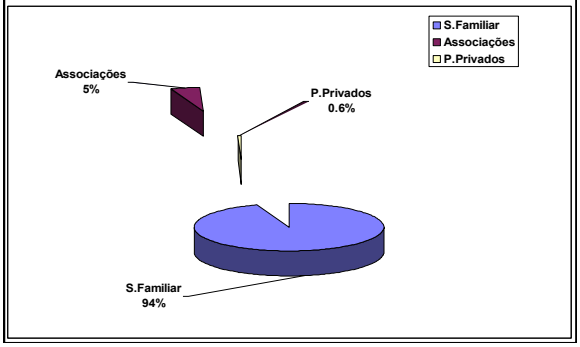
1931 - 2012 (*)



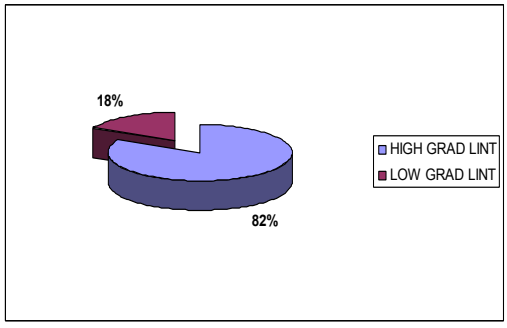
(%) Variety coverage



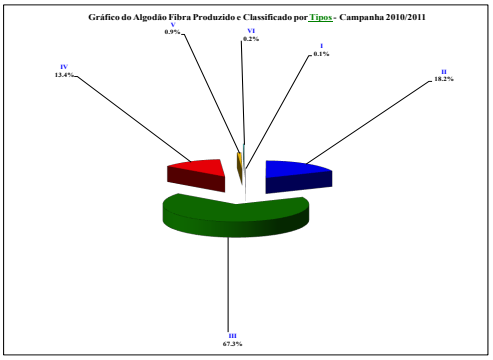
Seed Cotton Production by Farmers Group 2010/11



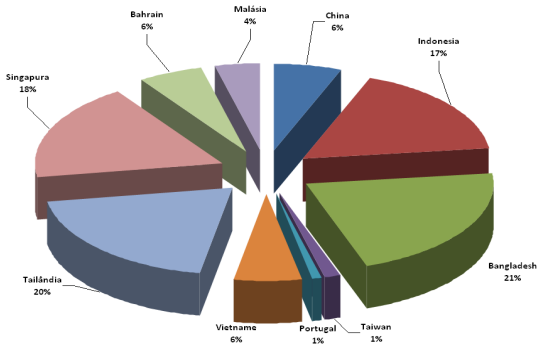
Cotton Lint Quality (2010/11)



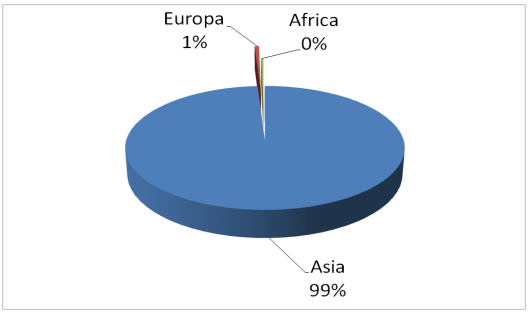
Cotton Lint Quality - 2010/11



Destination of Mozambique fiber, by Country 2010/11



... By Continent



The Cotton Research and Seed Multiplication Center of Namialo (CIMSAN)

Is part of…

Agricultural Research Institute of Mozambique (IIAM) at National level

&

Northeast Zonal Center (CZNd) at Regional level:

CIMSAN is responsible for national cotton research in Mozambique

Cotton research program

The cotton research program includes:

Three (3) sectors:

Plant Breeding;

Plant Protection;

Agronomy & Soil Science.

CIMSAN cotton research staff:

i. Researchers:
5 [(3 MSc and 2 BSc.) and 2 doing PhD.]

1 MSc., Plant Protection
2 MSc., Genetic and Plant Breeding
2 BSc., Agricultural Sciences

ii. Technicians:
4 (Elementary and basic levels)

iii. Administration and support services: 10

iv. Sazonal Workers:
About 40 annual contracted for 6 months (for Field and Ginning).

Main activities by sector

Plant Breeding
Development and Evaluation of new varieties

Plant Protection
Pest and Disease Management

Agronomy & Soil Science
Crop Husbandry and Formulation of Technology Packages

Research activities

Plant Breeding

Germoplasm maintenance

- 29 varieties/lines from Africa, USA and Turkey.

Research activities

Plant Breeding

Production of different categories of seeds (Breeder, Nucleus, Pre-basic and basic)
Varieties: CA-324, ISA-205 and STAM 42

Crossing and backcrossing for hairness introduction
Varieties CA222, CA324, IRMA1243, ISA-205 crossed with (Albar FQ902)

Multilocal evaluation of cultivars/lines

Research activities

Plant Breeding

•Diallel analysis for seedcotton yield and fiber percentage

American cultivars/lines & African Cultivars

•Seedcotton Production

Research activities

Plant Protection

•Effect of Strip intercropping for control of *Heliccoverpa* sp and other insect pest.

•Seed coating

•Weed management trials

•Evaluation of different types of insecticides

Research activities

Agronomy & Soil Science

- **Cotton intercropping with cowpea and maize**
- **Mulching for water and soil conservation**
- **Fertilizer trials**
- **Plant density (spacing for different soil types)**

Constraints

- **Lack of cooperation (research experience exchange) between CIMSAN and another cotton research centers;**
- **Low infrastructure capacity.**

Perspectives

- **Varieties maintenance and seed production system ;**
- **Trials for cotton fertilization;**
- **Breeding program for high yield, insect resistance and high quality of fiber;**
- **Formulation of new Technology Packages;**
- **Installation of laboratory for:**
  Seed and Fiber analysis

Perspectives

Acquisition of:
Small ginning machine for single and bulk plants.

Maintenance of genetic purity through annual renovation of the existing germoplasm;

Germoplasm Introduction and estimation of its genetic divergence for future breeding programs;

Perspectives

Molecular and morphologic characterization of germoplasm for breeding program;

Development of high yielding varieties using biotechnology techniques;

Seed multiplication of "elite" (good yield, adaptable to local condition and resistant to pests and diseases) varieties.

OBRIGADO...
THANK YOU…
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and
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