

INTRODUCTION

- Allanblackia species is generating an increasing interest in Nigeria.
- In the next 10-15years, it would become a household name, from the usual forestry tree species to industrial food, soap and cosmetics.

- The oil obtained from the seeds is edible
- It is valued for production of margarine which has low cholesterol.
- It is also used for the production of soap, cream e.t.c.

- The specie belongs to the family Glusiaceae.
- It is found in East, West, and Central Africa in naturally distributed wet evergreen rainforest.

- In Nigeria, the species thrives well in the Niger-Delta region of Edo, Rivers and Cross River states.
- Its spread in Nigeria as presented in previous reports show that it is found in Ogun, Ebonyi, Ondo, Osun, Imo, Enugu, Anambra, Abia, Ekiti and Lagos States, [FRIN 2005]
- Potential areas include Adamawa, Taraba, Nassarawa and Benue States.

- Allanblackia floribunda as an indigenous tree species which grows wild in Nigeria.
- Concerted efforts are now being made to propagate and domesticate it for purposes of large scale multiplication commensurate with industrial need.
- However, propagation by seeds have encountered a lot of problems, because of its dormancy. It takes between twelve to eighteen months before germination takes place.

OBJECTIVES

- The general objectives of the Allanblackia initiative are:-
- To develop effective domestication and conservation methods.
- To examine the Utilization of the plant in its native range in Nigeria.

- The specific objectives are:
- To develop appropriate silvicultural practices for Allanblackia domestication.
- To undertake periodic survey to update the status of Allanblackia distribution and ethnobothany in Nigeria.

RESEARCH ON DOMESTICATION ACTIVITIES.

FRIN In collaboration with Project Novella in 2007 carried out the following activities.

- Visit to selected communities in Edo and Rivers states for negotiations towards the planned domestication programmes.
- Sensitization of the rural communities on the uses of the plant inclusive of its industrial potentials.
- Planned felling programmes of some trees that will provide cuttings for purposes of propagation as well as ensuring setting of marcots on some other standing trees.

- Identification of the required Plus trees of the Allanblackia plant.
- To meet above itemised research activities 605 and 836 trees were felled in Edo and Rivers state respectively.
- Felling purposes was to ensure cuttings that will provide seedlings for purposes of rural nurseries establishment.

- 594 marcots were set in Edo state.
- 525 marcots were set in Rivers state.
- Nursery infrastructure such as the Nursery Shed, Non-mist propagators and Humid Chamber have been put in place in Benin in Edo state and Onne in Rivers State.

Opened Non mist propagator



- 30 Marcots set in 2007 at Utekon community in Edo state were harvested.
- 84 Marcots with roots were harvested from 7 trees at Nyowii in Rivers state.
- Harvested Marcots were placed in pots and set in the Humid Chamber in Benin and Onne Stations of FRIN.

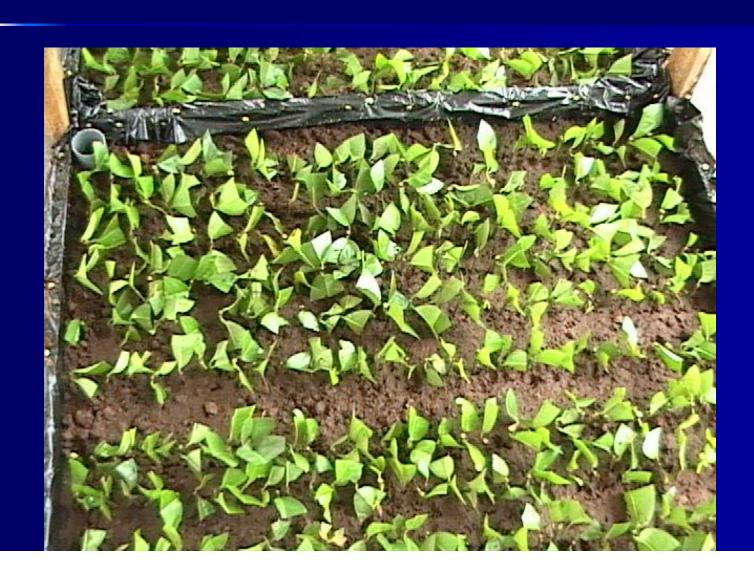
- Over 6000 cuttings have been set out in Benin office of FRIN.
- The same is currently on-going at Onne in River state.
- Each propagator has 3 compartments (C1, C2, C3) and each of this compartment was given different treatment of germinating medium. sharp sand only, sawdust only and a mixture of sharp sand and sawdust in the same ratio.

- Misting of cuttings is done on daily basis using knapsack sprayer at intervals of 2hrs on hot days and 4hrs on cool days.
- Water level of each compartment is gauged from time to time.
- Each compartment is also labeled according to the mother tree from which the cuttings planted in it were harvested.

Nursery workers preparing cuttings for planting in non-mist propagators in Benin



Allanblackia floribunda cuttings planted in the Non mist propagator in Benin



- Of the 30 marcots planted in Edo, 29 have started sprouting and budding over a period of 3 weeks.
- By the 8th week, the buds have become more pronounced with fresh green leaves.

- In a few weeks time, the marcots in Benin are expected to be transferred to a weaning shed before their eventual field planting.
- Over 50% of the potted marcots in Onne River state have also started sprouting.

Eight weeks Marcots inside the Humid Chamber in Benin



- Cuttings started sprouting 2 weeks from planting.
- In the 4th week, sprouting became more conspicuous with new leaves.
- By the 6th week root formation has gradually started to develop.

- A random selection of cuttings in all the propagators showed that the root formation was noticed in the compartments with sawdust only as its germinating medium.
- More are still expected to root from cuttings in other compartments.

Rooted cuttings of Allanblackia 15 weeks after sowing in Sawdust medium



UPDATE SURVEY ON DISTRIBUTION AND ETHNOBOTANY OF ALLANBLACKIA FLORIBUNDA IN NIGERIA

 In line with the presidential mandate on Allanblackia research in Nigeria, FRIN undertook an update survey of Allanblackia floribunda mother trees in Nigeria as a follow up to the 2005 national survey earlier carried out. So far 4 states namely Osun, Ogun, Ondo and Ekiti states have been covered in South western Nigeria.

The objective of this survey includes:

- Assessment of the current status of Allanblackia floribunda in previously identified localities in Nigeria.
- To identify any other state where the plant thrives but not covered in the first survey exercise.
- To further create awareness to the local people on the usefulness of Allanblackia and the need for its conservation.

- To collect germ plasm of Allanblackia for silvicultural studies.
- To evaluate the taxonomy of the species and its associated Taxa.

RESULTS.

The survey showed that the population of Allanblackia in the Area has continued to decline for the following reasons:

- Logging for timber.
- Felling by farmers to reduce competition with their cash **crops** especially cocoa.
- Most farmers regard it as a useless tree.

AB tree felled and sawn into planks



 Its usefulness for medicinal purposes was acknowledged in most

communities



- The survey showed that Allanblackia fruits in different communities at different time of the year even within same ecological zone.
- Only few wildlings were identified under mother trees.
- The survey showed that many people still confuse Allanblackia with Kigelia africana(Family Bignoniaceae) and Pentadessma butyracea(Glusiaceae). This is due to the drooping nature of the fruits of both trees.

Survey team with local farmers at Ikenne in Ogun State South West Nigeria.



Work Projections.

- The Marcots that have been secured will be weaned and used to establish a clonal bank within the station.
- This will be a good source of materials for further domestication activities and future studies on the growth behavior of Allanblackia.
- Effort will be made to secure more marcots.

- The cuttings set in the propagators will soon be a source of a good number of seedlings that will eventually be planted out within the FRIN station.
- Demonstration plots will be established in some communities in Edo and Rivers States.

- A National Allanblackia workshop will be organized by FRIN.
- All the stakeholders will be invited and the various issues highlighted in the survey report tabled for discussion.
- This is to achieve better awareness by the people and help to encourage the conservation of the tree and promote the commercial value of the tree seed.

Concrete studies into the Phenology and taxonomy of Allanblackia floribunda will be initiated especially with reference to the two definite fruit falls associated with the tree yearly.

- The update survey will be undertaken in other parts of the country.
- This is to determine the present status of Allanblackia in those communities earlier listed and possibly identify new ones.

Thank You For Listening