

Safeguarding the diversity of bottle gourd in Kenya

Biological conservation through IK documentation

CULTURAL IMPORTANCE









Wide mouthed bottle gourds are used for brewing traditional beer which is taken during leisure time and also when taking dowry to insume. It is a common practice for traditional doctors to use bottle gourds to store their spells and to use bottle gourds to store their spells and to use bottle gourds to store their spells and to use bottle gourds to store their spells and to use the spells and to use the spells and to use bottle gourds to store their spells and to use the spells are the spells and to use the spell and to use the spells are the spells and to use the spell and the spell





Bottle gourds are used as musical instruments. Many communities in Africa make xylophones, fiddles, rattles, percussions, lyres, drums, pipes, wind instruments, maraca, hand piano, bugle etc.

Bottle gourds are used as handicrafts and decorations, toys, necklace, earrings and other tiems. The Akamba of Kenya use small short tiems are used as handicrafts and decorations, toys, necklace, earrings and other tiems. The Akamba of Kenya use small short tiems are used as bowls for food, ratio grain and fluids and also winnowing grain. It is also used for scooping water from sand beds and a measure for grains, medicines, food, etc.

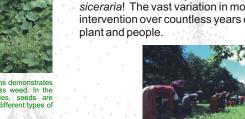
Young tender fruits of the edible types are eaten as fruit - vegetable in some communities. These and a measure for grains, medicines, food and a measure for grains, medicines, food sugar, salt, porridge etc. for selling or barter trade.





DIVERSITY

The "bottle gourd" is a utilitarian domesticated cucurbit and used as a container, it straddles across many African cultures. Believe it or not, the bottle gourd is a traditional item of all people in the world. A myriad of shapes are maintained by the various cultures of the world - long elongated, club, spherical, cylindrical, necked, etc. All these belong to one species known in botanical terms as Lagenaria siceraria! The vast variation in morphology is considered to be as a result of human intervention over countless years of symbiotic relationship between this remarkable



KAWG is based near Kitui town, some 160km east of Nairobi, Kenya. The group made up of 26 members, including 3 men, was formed in 1989 as a self-help community based group.







The fruits are usually cut open into 2 to 6 pieces depending on fruit size then boiled for 10 to 15 minutes until soft. They are eaten with little salt or may be mashed and fried or used as stew.

Young shoots, new leaves and flower buds of edible types of guards are eaten and are rich in protein and oil. They are frequently roasted and consumed as snack or pounded and mixed with maize or millel flour. In West Africa, such seeds are known as Egusi.

The bottle gourds, like pumpkins demonstrates a very good ability to suppress weed. In the raditional farming communities, and provided and mixed with maize or millel flour. In West Africa, such seeds are known as Egusi.



CONSTRAINTS





Loss of *Kitete* will encourage use of plastic, tin and glass containers, which litter the environment as they are not biodegradable.



The transfer of IK to the young generation is much less than before. Any efforts to conserve the local varieties would therefore need to go hand in hand with transfer of knowledge from the old to the young.

"KITETE" (BOTTLE GOURD) PROJECT

The bottle gourd in Kitui District, Kenya is known locally as "Kitete". Kitui District of Kenya, which is inhabited by the Kamba people, is a region that combines ideal growing conditions for *Kitete* with rich cultural knowledge of the varied uses and types. Since May 2001, Kyanika Adult Women Group (KAWG) has embarked on an ambitious two-year project aimed at "conserving the diversity of bottle guard and its associated Indigenous Knowledge (IK) through awareness creation, increased cultivation, documentation and dissemination of

> This project's emphasis is that IK needs to be maintained in the community especially among the young generation and benefit through selling and household use. National Museums of Kenya (NMK) and International Plant Genetic Resource Institute (IPGRI) have been collaborating with KAWG in



indigenous

WHY IS IT IMPORTANT TO MAINTAIN **BIOLOGICAL DIVERSITY?**

Emerging opportunities over the last few years for "minor" crops,

particularly those Underutilized or Neglected Species (NUS), signal a new attention of the public opinion on biodiversity and its sustainable use along

with an increasing interest of the public and private sector towards "new crops, "new" uses and "new" markets. There exists great association between diversity and indigenous knowledge of the crops as seen in traditional agricultural systems and cultural systems. It is this association, which has enabled the cultivated

species to evolve and be maintained from generation to generation.

Recent changes in culture and marketing of plastic containers have

caused an erosion of knowledge threatening the loss of bottle

This inherited diversity and associated indigenou knowledge of use need to be maintained within local

communities especially among the young generation, for enhanced conservation of the traditional values and multiple uses.







Training the group to use documentation tools such as cameras and tape recorders.



PROJECT ACTIVITIES, METHODOLOGY AND PRODUCT

Identifying resource people to train group members various skills.





While visiting neighbouring districts, members also exchanged seeds and









The group members assembled and organized all different types of seeds and fruits, brought by members from different types.







The center will not only be a cultural exhibit but also seeds distribution center for the community and an eco-













An award was given to the best 3 contestants.



The group created an exhibition center of all collected varieties to make them accessible to the public.







The group invited visitors to share experiences with them.



Yasuyuki Morimoto and Patrick Maundu International Plant Genetic Resources Institute Sub-Saharan Africa Group







such as CD.





maintain and keep the crop and its





Nairobi, Kenya Tel: (254-2) 524500/524509 Incorporating Kitete activities in cultural events such as community festivals will help maintain the crop Fax: (254-2) 524501/524001 Http://www.ipgri.cgiar.org

