

# Biodiversity and Human Activities in the Udzungwa Mountain Forests, Tanzania. 1. Ethnobotanical Survey in the Uzungwa Scarp Forest Reserve

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Source: Journal of East African Natural History, 87(1): 291-318

Published By: Nature Kenya/East African Natural History Society

URL: https://doi.org/10.2982/0012-8317(1998)87[291:BAHAIT]2.0.CO;2

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# BIODIVERSITY AND HUMAN ACTIVITIES IN THE UDZUNGWA MOUNTAIN FORESTS, TANZANIA. 1. ETHNOBOTANICAL SURVEY IN THE UZUNGWA SCARP FOREST RESERVE

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#### ABSTRACT

An ethnobotanical survey was conducted between March and September 1997 in the northwestern and southern parts of the Uzungwa Scarp Forest Reserve using strip transects. Altogether 489 plant species from 107 families were recorded, most of them trees (37 %) and shrubs (27 %). Others were lianas, herbs, ferns and parasites. Endemic plants restricted to the Udzungwa Mountains and Eastern Arc endemic plants not restricted to the Udzungwas were present. It was established that local communities around the forest highly depend on the natural forests for forest products. Most human uses were for traditional medicine, fuelwood and building materials. Quality hardwoods Khaya anthotheca, Afzelia quanzensis, Milicia excelsa and Ocotea usambarensis were noted. To reduce the pressure on the natural forest, agroforestry is recommended in the area to meet some of the people's needs for forest products, thereby contributing to the conservation of biodiversity. It is also important to do more intensive surveys in the area and to document the valuable indigenous knowledge of useful plants.

## INTRODUCTION

The Udzungwa Mountains within the Eastern Arc Mountains are famous for their high species diversity and endemism. The local people surrounding these unique forests rely on them for their livelihood and have a vast ethnobotanical knowledge that is not very well explored and documented. It is mainly the elderly who hold the greatest knowledge of using and maintaining forest resources and as they die, their inherited knowledge is being lost. An ethnobotanical survey was conducted in the north-western and south-western parts of the Uzungwa Scarp Forest Reserve in March-April and September-October 1997, covering the rainy and dry seasons respectively. The purpose was to identify and document, in collaboration with indigenous ethnobotanists, useful plant species in the Forest Reserve.

Kaale (1983) estimated that 91 % of energy used in Tanzania is based on firewood. Hedberg (1987) reported poisonous plants and potential medicinal plants in forests and expressed the need to document the vast indigenous knowledge contained in the minds of elderly people. Ruffo (1989) recorded some useful plants of the East Usambara Mountains,

where he mentioned 17 uses and Ruffo et al. (1989) recorded 185 forest plants used to treat 63 different diseases. A recent survey in the West Usambaras revealed the unique richness of medicinal plants for livestock (Mwihomeke, 1994). Mmari & Mabula (1996) recorded 283 forest plants with various uses in Kiranzi-Kitunguru, Kitemela and Kawemba Forest Reserves within the Udzungwa Mountains.

However, the Uluguru and Udzungwa Mountains are still poorly explored ethnobotanically. Rising rates of deforestation and degradation of biodiversity in the Eastern Arc forests are among the factors that pushed us to initiate this study. The aim was to rescue some of the rapidly disappearing indigenous ethnobotanical knowledge on biological resources in these forests. The study also tried to answer the following question about the reserve: What species are present, what are they used for by the local people, and what is their conservation status?

## History of the study area

Before the colonial period, the areas surrounding the Uzungwa Scarp Forest Reserve and the present reserved areas were covered by thick and extensive forests. Although some agricultural activities were carried out and the people were living within forest areas, there was no severe impact on the forest resources, and people lived more in harmony with the environment (Chami, 1994; Mmari & Mabula, 1996). Traditional values of the forest focussed on the management of natural ecosystems and the maintenance of the forest to meet their own needs.

During the colonial period (1891–1960), conflicts between forest conservation regulations and villagers' use of forest resources became pronounced. Indigenous conservation methods were overlooked by colonial administrators, who issued land for the establishment of large agricultural estates to colonial masters and established forest reserves for timber and watershed protection. 'Natives' were forced into marginal unproductive lands. Poor forest management, and a lack of alternative income-generating activities led to intensified forest exploitation for fuelwood, building and weaving materials, timber, medicinal plants, animals and encroachment for agriculture. This trend led to a depletion of the forest resources and their destruction. Tibaijuka (1993), Mung'ong'o (1991) and Hunter (1992) call this "the period of over-exploitation of the forest resources".

After independence many people were moved from their scattered homesteads to concentrated settlements. Populations grew, resulting in increased population pressures and increased demand for food crops, thus leading to further encroachment of the natural forest for agricultural activities.

#### MATERIALS AND METHODS

#### Site description

Uzungwa Scarp Forest Reserve is in the Udzungwa Mountains in southern central Tanzania at 35°50' to 36°05' E and 8°10' to 8°37' S (figures 1 & 2). The reserve covers an area of 19,384 ha and is located over a series of isolated hills with steep slopes on the eastern side, facing the Kilombero Valley.

There are various streams that flow from the Uzungwa Scarp Forest Reserve. The western streams feed the Great Ruaha River, while the steep eastern scarp streams flow to the Kilombero River. The rivers provide water for irrigation and the generation of hydroelectric power.

The ethnic group in the area is Wahehe. They depend almost solely on agriculture with some animal husbandry. The principal crops cultivated on the western side of the Reserve include maize, millet and Irish and sweet potatoes, while on the southern part in Mufindi District maize and rice are cultivated. Domestic animals include dogs used for hunting, goats, pigs and rarely cows. Woodlots established near homesteads are planted with *Pinus* spp, *Cupressus* spp and *Acacia mearnsii*. Occasionally *Eucalyptus grandis*, *Grevillea robusta* and *Acacia melanoxylon* are planted as windbreaks. Fruit trees such as *Prunus persica*, *Persea americana*, plums and pears are found on some farms in Iringa District. Natural forest tracts exist in some villages and are respected for their use in ritual activities. The forest tracts are also potential areas for medicinal plants and other forest products. Main species in the forest tracts are *Parinari excelsa* (Msaula), Macaranga kilimandscharica (Mpalala), Ficus spp (Mtsombe) and Albizia spp (Mwitsa).

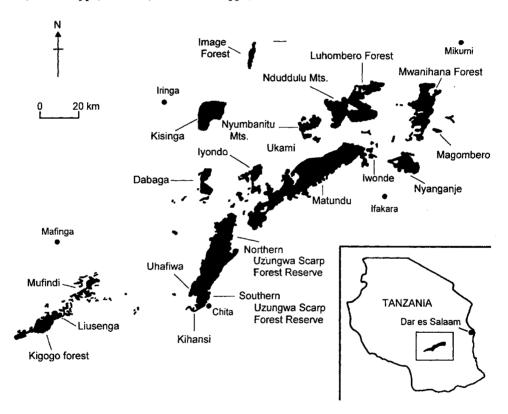


Figure 1. Map of the Udzungwa Mountain forests showing the location of the Uzungwa Scarp Forest Reserve.

Rodgers & Homewood (1982), Lovett (1992), Chami (1994) and Fjeldså (1999) have described ecology of the Udzungwa Mountains. Udzungwa soils like other Eastern Arc forest soils are basically fertile sandy loams due to the build-up of nutrients from litter decomposition and protection from erosion and excessive leaching. Extensive areas of bare rocks covered with lithophytes also occur in the area.

Rainfall in the area is unimodal in pattern, starting from November with peak in April and ending in June. The climate is influenced by the November-May Southeast monsoon winds. High altitudes above 1,600 m a.s.l. receive more rain than the lower slopes. Rainfall

in the area ranges from 1,800 to 2,000 mm per year (Rodgers & Homewood, 1982) or sometimes to over 3,000 mm per year in wetter areas (Lovett, 1992).

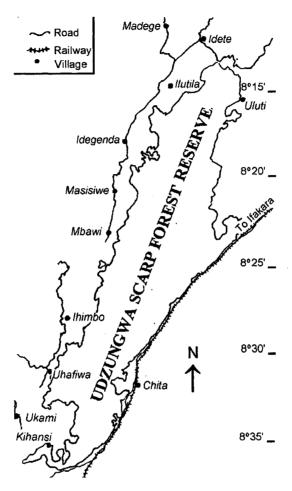


Figure 2. Location of the Uzungwa Scarp Forest Reserve and the villages represented in the study.

# Methods

A literature survey was conducted at the Iringa Hifadhi Mazingira (HIMA) Project Office and the Regional Natural Resources Office. Topographic maps were used to locate the area and villages. Villages bordering the Forest Reserve were represented in the study by local informers who accompanied the research crew to the forest. Some villagers were interviewed. Transects 7.5 m wide were established at the forest border from represented villages to the forest. The villages studied include Ilutila, Iluti, Idegenda, Mbawi, Masisiwe, Kitemela, Ihimbo, and Uhafiwa (figure 2).

A plotless strip sampling method was used with the assumption that the species are randomly distributed in the forest. The transects were placed running across the contours and along footpaths. Forest borders, hill tops and riverbanks were considered independently even if they lay outside the transects.

Altitude was recorded at the start of the transect and after every 100 m. All species occurring on the transects and on the areas of special interest were identified by their botanical and local names and their uses were recorded. Plant specimens were collected, pressed and taken to Lushoto Silviculture Research Centre Herbarium for further identification. Some were sent to the Royal Botanic Gardens (Kew) for further studies.

Quadrats of 60 x 7.5 m were placed on transects for forest structure determination. All trees in the quadrats with diameter at breast height greater than 4.8 cm were noted and their rooting position recorded. Total height, crown height and crown projection area were measured and recorded. Tree regeneration in the gaps and in the forest was also estimated.

Interviews were initially conducted in the villages regarding the local names and use of plants. Later interviews were conducted at the same time as the botanical survey to facilitate documentation of ethnobotanical information, proper identification of plant species and cross checking of other information. While in the forest the local informers provided information on the uses of the forest plants.

#### FINDINGS AND DISCUSSION

#### Plant species

Altogether 489 plant species representing 107 families were recorded and identified from the western and southern parts of the Uzungwa Scarp Forest Reserve. Of the species identified 37 % were trees, 27 % shrubs, 16 % herbs and 10 % lianas. The others were creepers, ferns and grasses. Parasitic and sedge plants were also recorded (figure 3). The most common families were Rubiaceae (12 % of species), Compositae (6 %), Euphorbiaceae (5 %) and Papilionaceae (5 %). Mmari & Mabula (1996) obtained similar results in a botanical survey conducted in Kawemba, Kitemela and Kiranzi-Kitunguru Forest Reserves in the Udzungwas. The Kihansi area was noted to be rich in plant species, possibly due to the moist microclimatic conditions supporting different vegetation types to those represented in the rest of the area. On the other hand, Masisiwe was observed to be poor in plant species (figure 4). Most tree species were fairly abundant in the reserve except Prunus africana, Ocotea usambarensis and Rapanea sp., which are threatened in the area. This may be due to their extraction for timber. Only one sapling of Ocotea usambarensis was noted, although scattered big trees are reported to be present near the scarp in the east. Species restricted to the Udzungwa Mountains such as Ixora scheffleri and Alsodeiopsis schumannii were also recorded. Species restricted to the Eastern Arc forests like Allanblackia stuhlmannii, A. ulugurensis, Cephalosphaera usambarensis, Cryptocarya libertiana and Sabecea orientalis were also recorded. Other species recorded include high quality hardwood species like Afzelia quanzensis and Milicia excelsa.

#### Vegetation types

Five vegetation types are presented in the Forest Reserve:

- 1) Miombo woodlands at Kihansi at an altitude of 150-300 m a.s.l. The miombo woodland has a low and often broken canopy 10-15 metres high. Dominant tree species are *Brachystegia* spp, *Afzelia* spp, *Sterculia quinqueloba*, *Annona* spp, *Uapaca kirkiana* and *U. nitida*. Bryophytes are almost absent.
- 2) Lowland evergreen rain forest along the Kihansi River at an altitude of 300-800 m a.s.l. The tree canopy is 15-25 m high along streams and river valleys, with emergents reaching 25-30 m. In disturbed areas, especially where *Milicia excelsa* has been

extracted, dense thickets occur. The trees include Afzelia quanzensis, Anthocleista spp, Funtumia sp., Garcinia buchananii, Khaya anthotheca, Malacantha sp., Milicia excelsa, Newtonia buchananii and Sterculia sp.

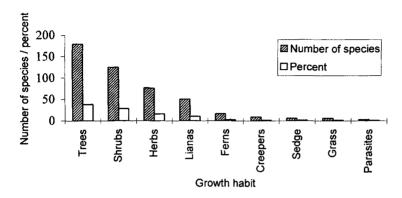


Figure 3. Distribution of plant species by growth habits in the Uzungwa Scarp Forest Reserve.

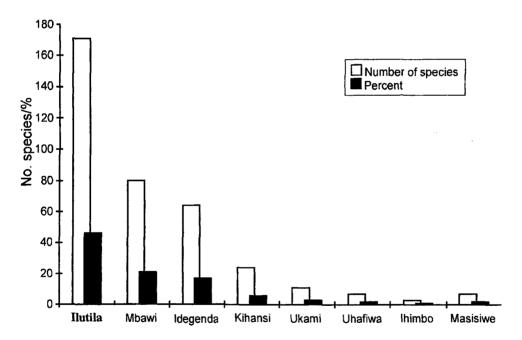


Figure 4. Number of plant species in the transects in the Uzungwa Scarp Forest Reserve.

3) Submontane rain forest at 700-1,400 m altitude, which has higher diversity of tree species and taller trees than those of other vegetation types. This forest type is dominated by Allanblackia stuhlmannii, A. ulugurensis, Syzygium guineense, Englerophyton natalensis, Bombax rhodognaphalon, Ixora scheffleri and Newtonia buchananii. Other trees include Macaranga kilimandscharica, Albizia gummifera and Bridelia micrantha. The trees are 10-25 m high, with dominant trees reaching 20-25 m in other parts, and further north they are up to 50 m. The canopy is discontinuous.

- 4) Montane rain forest at 1,400-1,800 m altitude, occupying large areas in the Reserve. Trees are not as tall as in the submontane forest and the forest is rich in shrubs and undergrowth. Common tree species are Allanblackia spp, Parinari excelsa, Albizia gummifera, Agauria salicifolia, Aphloia theiformis and Macaranga kilimandscharica. Tree ferns (Cyathea manniana) are common.
- 5) Mountain bamboo forest occurs in the northwestern part of the Reserve, being the dominant vegetation near Masisiwe and Mbawi villages. The dominant species is *Arundinaria alpina*. The canopy is about 10 m high and the forest has very poor undergrowth. However, the bamboo zone changes abruptly to mature forest near the scarp.

# Gap dynamics

Several gaps of various sizes from about half up to two hectares were observed in the forest area. The gaps apparently originate from hunters' and honey collectors' activities and timber harvesting. Some wild animals, especially elephants, were considered to be abundant in the past when they may have affected the forest gap formation and maintenance (see Kasenene, 1984; Nummelin, 1990; Struhsaker et al., 1996). Some gaps are a result of previous settlements and encroachment. Pioneer species, such as Macaranga kilimandscharica, Albizia gummifera, Polyscias fulva and Anthocleista grandiflora have established themselves in these open gaps. These species occur in a scattered manner leaving most of the ground layer in the gap covered by herbaceous plants. Herbaceous plants like Pteridium sp., Brillantaisia madagascariensis and B. ulugurica cover the gaps in the western part. In the southern part gaps were covered by grasses. Medicinal and food plants like Mangifera indica, Carica papaya, Ricinus communis and Piper sp. are also present.

#### Regeneration

Macaranga kilimandscharica, Albizia gummifera and Polyscias fulva were regenerating poorly in the gaps. Reasons for the absence of regeneration are not known. An absence of seed-producing mother trees, heavy undergrowth and thick litter may have contributed the failure of the seeds. Outside the gaps, in the closed forest, regeneration was abundant for Parinari excelsa, Syzygium spp, Myrianthus arboreus, Macaranga kilimandscharica, Albizia gummifera, and Bersama abyssinica. Only a few regenerating Phoenix reclinata, Canthium spp, Zanthoxylum spp, Ochna holstii, Myrica salicifolia and Cassipourea malasana were recorded. In some species, such as Rapanea sp., Milicia excelsa and Ocotea usambarensis, regeneration is sparse, if not absent.

#### Plant uses

Thirty-seven forest plant uses were recorded from the area (appendix). To simplify the many uses, twelve main uses were chosen for discussion (table 1). The most important uses were medicines, fuelwood, building materials and timber. Others include honey production, food, weaving material, fishing gear, fodder and material for utensils (figure 5).

#### Indigenous technology

The local people living close to the western and southern boarder of the Uzungwa Scarp Forest Reserve benefit from the species richness in the reserve. This survey revealed that the people collect materials from the Forest Reserve for construction of houses using indigenous technology. Poles, withies, ropes and plants for thatching are used for construction. Almost the only source of energy is fuelwood. The use of charcoal and kerosene stoves is limited and

electricity is not available. Equipment like mortars and pestles, beehives, spears, bows and arrows, musical instruments and furniture are manufactured locally by specialists in indigenous technological skills.

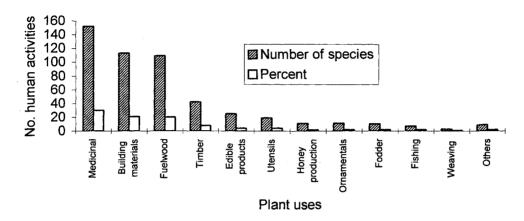


Figure 5. Distribution of plant species by uses in Uzungwa Scarp Forest Reserve.

Table 1. Forest plant uses in Uzungwa Scarp Forest Reserve.

Main use	Uses
Edible products	Vegetables, fruits, local brew and thirst conqueror
Timber	High quality and low quality timber
Fodder	For domestic animals and wild animals
Honey production	Constructing beehives and harvesting honey
Building materials	Poles, withies, ropes and thatching
Fuel	Fuelwood and charcoal
Medicinal	Treatment diseases, treatment of bewitchment, prophylaxis for
	diseases,bewitchment, poisons and rituals
Utensils	Handles (weapons, tools, equipment), mortar (pestles) and
	domestic utensils
Weapons	Bows and arrows
Fishing	Traps, poison and canoes
Weaving	Fibres (basket, mat, winnowing containers), bamboo for tenga
-	baskets
Ornamental	Gardens and hedges
Others	Birdlime, balls, dye and rain indicators

# Traditional practices

The use of medicinal plants by the indigenous people is a practice common in most of Tanzania's rural communities. In the western and southern side of the Uzungwa Scarp Forest Reserve plants are also used for medicinal purposes. Bark, roots and leaves as well as whole plants are used to produce various forms of medicines that cure disease. Most often more than two plant species (sometimes more than ten) are mixed to cure a specific disease. Thirty percent of the plant species recorded in the study area were medicinal plants. Traditional

practitioners and herbalists depend on the forest plants for practising their art. Ihimbo and Uhafiwa villages have traditional practitioners who kill thieves by using plants and superstition. This practice has created faith in the area and food produce is left in the fields with assured security. Erythrina abyssinica and Parinari excelsa are considered as sacred trees and are found in sites with old cemeteries and places for traditional rituals. Indigenous taxonomic knowledge used to identify species variability is essential as herbalists use smell, touching and tasting techniques. In all cases herbalists, traditional practitioners, as well as witch-doctors hand over their art to particular son or daughter from father or mother respectively. This knowledge is inherited specifically in a clan and nowadays the youth regard this practice as out of date. Hedberg (1987) also noted that propagation of this technology is limited as it is done through oral tradition. This also makes the study of plant uses difficult.

#### CONCLUSIONS AND RECOMMENDATIONS

Uzungwa Scarp Forest Reserve has many potentially useful forest plants that need to be explored and documented urgently. This urgency is due to the fact that the knowledge is almost solely with elderly people who may pass away with their uninherited and undocumented knowledge. The same is true in other Eastern Arc Mountains forests. Some of the plant species are rare, endemic and threatened and thus in need of protection and conservation measures.

In order to achieve conservation of the biological resources, sustainable productivity of the soils, and water protection, the following recommendations are made:

- 1) The natural forest tracts that are traditionally conserved forest areas of the villages should be protected and their status should be improved through identification, surveying and enrichment planting by preferred indigenous tree species.
- 2) Enrichment planting in gaps in the natural forest caused by encroachment, old settlements and exploitation of forest products in the past should also be considered. Indigenous tree species from the same habitat are recommended.
- 3) Indigenous conservation methods should be considered for integration with the formal methods; it is anticipated that this will be effective in the conservation of the natural forest as they are accepted and practised at farmers' level.
- 4) Agroforestry practices using preferred indigenous tree species with food crops in the farmlands, planting of woodlots around homesteads, and establishment of village woodlots should also be encouraged in the areas around the natural forests.
- 5) Boundary resurveying should be done and boundaries planted with trees such as *Eucalyptus grandis* and *Casuarina* spp, which will later form a permanent boundary.
- 6) Since the local communities neighbouring the forest have been custodians of the resource for a long time and have been depending on it for their livelihood, it is recommended that local people should be granted more responsibility for conserving the forest.
- 7) Local people should be considered when sharing benefits derived from the forest.
- 8) Local people should be considered for employment as forest guards to work in collaboration with the foresters and as guides on surveys and ecotourism.
- 9) To secure improved management it is important to conduct more intensive surveys in the area to explore and document the precious ethnobotanical knowledge and traditional conservation measures.

# **ACKNOWLEDGEMENTS**

Special thanks go to the Finnish Support for Forestry Research in Tanzania (FORST) Project for financing the study, TAFORI management for the support and releasing us to do the study. We thank Dr Matti Nummelin for the efforts he made for this study to be successfully accomplished and Ms Mirja Ruokonen for commenting on the manuscript. We would like to thank all the local informers, especially Mr Yuda Kingunge, Mr Jobu Mwituly, Mr Tobias Msofi, Mr Luinuko Ngahungwa, Mr Atanas Kichwelu and Mr Leonas Kanika without whom the results could not have been achieved. Our sincere thanks are also extended to the Village Heads in all villages we visited for their co-operation. We are grateful to HIMA Office for allowing us to stay at their Field Centre and the access to many reports on the Udzungwa Mountains. Our gratitude goes to the Iringa District Natural Resources Officer, Mr Malango, District Forest Officer, Mr Mchomvu, TAFORI Head of Sao Hill Research Centre, Mr Kachwele, Mr Karumuna Johansen of Water Department, Iringa, Mr D. Ruffo, Kihansi Falls Hydroelectric Power Project Management. We would also like to thank all those who assisted us after the motor accident leading to the death of Ms Mmari which befell us during the field survey. Last but not least we thank Lushoto Silviculture Research Centre and all TAFORI staff for their various efforts and comments when writing this report.

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APPENDIX. Plant species recorded from Uzungwa Scarp Forest Reserve under their respective families including their local names, growth habit and uses.

DOTANICAL NAME	LOCAL NAME	ODO)ACC!!	LOCAL HOES
BOTANICAL NAME	LOCAL NAME	GROWTH HABIT	LOCAL USES
ACANTHACEAE			
Asystasia gangetica (L.) T. Anders	Luisa	Shrub	
Brillantaisia madagascariensis Lindau	Lihuini	Shrub	
B. nyanzarum Burkill		Herb	
B. ulugurica Lindau	Lihuini	Shrub	
Crossandra triadentata Lindau		Herb	
Hypoestes verticillaris R. Br.		Shrub	
Hypoestes sp.	Kalamata	Herb	Fodder
Justicia anisophylla (Mildbr.) Brummitt	Mwikose	Shrub	
J. anglerana (Lindau) C.B.	Livavata	Shrub	
J. glandulosa Lindau	Lihambwi	Shrub	Fodder
J. interupta (Lindau) C.B.	Vivinganyalafi	Shrub	
<i>J. nyassana</i> Lindau	Kalamata	Herb	Fodder
J. pseudrungia Lindau	Kihunganyawalafi	Herb	
J. unicinulata Oliv.		Herb	
Justicia sp.	Tulilafuno	Herb	
<i>Justicia</i> sp.	Kadangadanga	Herb	Vegetable
Justicia sp.	Lifuge	Herb	Vegetable
Mellera lobulata S. Moore	Lihambwili	Shrub	_
Momulopsis glandulosa (Lindl.) Bullock	Lihambwi	Shrub	Medicinal
Pseudoranthemum campylosiphon Mildbr.	llinganyalafi	Shrub	
P. hilderbrandtii (L.) C.B.		Shrub	
Sclerochiton boivinii C.B.Cl.	Msebele	Shrub	
Sclerochiton holstii (Lindau) C.B.Cl	Mkinamsitu	Shrub	
Thunbergia alata Boj.	Kihugila	Climber	Ropes
Straurogyne sp	·	Herb	•
T. petersiana Lindan	Mwikose	Shrub	
T. usambarica Lindan	Lindelendele	Climber	
Thunbergia sp	Mwambura	Climber	Medicinal
Thunbergia sp	Kitoyala	Herb	
ADIANTHACEAE	-		
Cheilanthes bergiana Kunze	Mfululusi	Fern	
Pallaea longipilosa Bonap.		Fern	

BOTANICAL NAME	LOCAL NAME	GROWTH HABIT	LOCAL USES
Pteris cretica L. AGAVACEAE		Fern	
Dracaena afromontana Mildbr.	Kidetema	Shrub	Fodder
D. laxissima Engl.	Mvalambi/Kidetema	Shrub	Toothbrush
D. steudneri Engl.	Mbelewele	Small tree	Fodder
D. usambarensis Engl.	idetema	Small tree,	Fodder
D. usambarensis Engl.		shrub	loudei
Sanseviera sp ALANGIACEAE	Kichembuliga	Herb	
Alangium chinense (Lour.) Harms ALOACEAE	Mhengemela	Tree	Timber, poles
Aloe laterita Engl.	Litembo	Herb	Iron smiths, wound healing
AMARANTHACEAE			ug
Achyranthes aspera L.	Kimatamata, Liguhukanuka	Herb	
Aerva lanata (L.) Juss.	Linyali	Herb	
Celosia schweinfurthiana Schinz.	Lihuini	Shrub	
Cyathula uncinulata (Shrad) Schinz.	Lilamata	Climber	Medicinal
Pupalia lappacea (L.) Juss	Limsingi	Climber	Medicinal
AMARYLLIDACAEÀ	o o		
Crinum politifolium Wahlst ANACARDIACEAE	Mlelevasi	Herb	Medicinal
Lannea schimperi (A.Rich.) Engl.	Luguvani, Mpugupugu	Tree	Handles
Lannea sp	Isungu	Shrub	
Rhus longipes Engl.	Kubanulalu	Shrub	Medicinal,
			edible fruits
Rhus vulgaris Meikle	Kitunubi	Shrub	Poles, edible, fruits
Sorindeia madagascariensis DC.	Mpilipili, Mhulo, Tundawasa	Tree	Fuel, Poles, fruits, toolhandles
Trichoscypha ulugurensis Mildbr. ssp ulugurensis	Mbembanigo, Lukumbwembwe/M pilipili	Tree	Toolhandles, fuel, poles,
ANNONACEAE	FF		
Annona senegalensis Pers.	Mtopeta	Tree	Fuelwood, handles
Greenwayodendron suaveolens (Engl.&Diels) Verd.	Lihomelo	Tree	Poles, fuelwood
Isolona heinsenii Engl.	Mkalanganyambwi	Tree	Medicinal, poles
Monanthotaxis buchananii (Engl) Verdc.	Livelevele	Tree	Poles, withies, fuelwood
Monodora grandidieri Baill.	Mkwala	Shrub	Poles, toolhandles
Monodora sp.	Nyalubano	Shrub	Medicinal
Uvaria scheffleri Diels.	Mbokovoko	Climber	Medicinal
U. tanzaniae Verdc.	Mbokovoko	Climber	
Uvaria sp	Mvyokovyoko	Shrub	
Uvariodendron goigonis Verdc.	i.i.vy okovy oko	Tree	
U. oligocarpum Verdk.	Msasati, Mhangama	Tree	Timber
U. pyconophyllums (Diels) R.E.Fries.	Mlindimila	Tree	Poles, withies, fuelwood

BOTANICAL NAME	LOCAL NAME	GROWTH HABIT	LOCAL USES
Xylopia aethiopica (Dunal) A.Rich	Kipulula, Msasati	Tree	
X. parviflora (A.Rich) Benth ANTHERICAEAE	Lihomelo	Tree	Poles, fuelwood
Chlorophytum filipendulum Berk.	Mlelevati/Nyalumbw embwe	Herb	
APOCYNACEAE			
Ancylobothrys petersiana (KC) Pierre		Climber	
Carvalhoa campanulata K. Schum.	Kitelutelu	Shrub	
Diplorhynchus condylocorpon (Muel. Arg.) Pichon	Mtogo	Tree	Medicinal
Holarrhena pubescens (Buch Ham) G.Don.	Mkolongo	Shrub	Medicinal
Landlovia buchananii Stapf.	Lumonga	Climber	Ropes
Oncinotis lanceolata Gilg.	Mlungamo	Climber	Medicinal
Rauvolfia mannii Stapf.	Nyavihongo ndogo	Shrub	Medicinal
R. mombassana Stapf.	Nyavihongo	Shrub	Medicinal
R. volkensii (Schum.) Stapf.	Nyavihongo	Shrub	Medicinal
Saba comorensis (Bojer) Pichon	Mgapa	Climber	Fruits, medicinal
Schizozygia coffaeoides Baill.	Kitelutelu	Shrub	Toolhandles
Tabemaemontana pachysiphon Stapf.	Mkongoza	Tree	Medicinal
Voacanga africana Stapf. ARACEAE	Mlowolowo	Tree	Medicinal
Culcasia scandens (Willd.) P. Beauv.	Lukiki	Herb	
Culcasia orientalis Mayo ARALIACEAE	Mbalawino	Herb	
Cussonia spicata Thunb.	Mnyonzi, Munyunzulu	Tree	Medicinal
Polyscias fulva (Hiern) Harms	Mdeke	Tree	Timber, poles ,fuelwood
Schefflera barteri (Seems.) Harms ARISTOLACHIACEAE	Likagata	Climber	Medicinal, ropes
Aristolachia elegans Mast. ASCLEPIADACEAE	Landaladope	Climber	Ropes, buskets
Ascepidaceae genus nov  Marsdenia abyssinica (Hoschst) Schlecht.	Lupalakanga Mwendi	Climber Climber	Medicinal
Secamone sp.	Nyamtita/Lwamtita	Climber	Ropes
Secamone sp. ASPLENIACEAE	Kihugwe, Kihugila	Climber	Ropes
Asplenium elliottii C.H.Wright	Msalatusi	Fern	
A. holstii Hieron BALSAMINACEAE	Migungumati	Fern	
Impatiens ehlersii Schweinfurth		Herb	Ornamental
I. hamata Warb.	Minwuwi	Herb	Ornamental
I. irvingii Vel.		Herb	Ornamental
I. meruensis Gilg.	Minwuwi	Herb	Ornamental
I. walleriana Hook. f. BASELLACEAE		Herb	Ornamental
Basella alba L. BEGONIACEAE	Belenga	Herb	Vegetable
Begonia meyeri-johannis Engl.	Mtsimutsimu	Shrub	Medicinal
B. sutherlandii Hook.f.		Herb	Ornamental
Begonia sp.		Herb	Ornamental
BERBERIDIACEAE	Vimaliates	Characte	* # = =12 = 1
Berberis holstii Engl.	Kimakatsa	Shrub	Medicinal, dye

BOTANICAL NAME	LOCAL NAME	GROWTH HABIT	LOCAL USES
BIGNONACEAE			
Markamia lutea (Berth.) K.Schum.	Luguwani	Tree	Handles, fuelwood
M. oblusifolia (Bak.) Sprangue	Lukunyani, Kipagupagu	Tree	Handles, fuelwood
Stereospemum kuthanium Cham.	Mkongonangedenge	Tree	Poles, fuelwood
Techomaria capensis (Thumb.) ssp nyassae (Oliv.) Brummitt BOMBACEAE	Kinyalomo, Mnunu	Shrub	Medicinal, fuelwood
Bombax rhodognaphalon K.Schum BURSERACEAE	Kavyolovyolo	Tree	Beehives
Commiphora eminii Engl. BRYACEAE		Tree	
<i>Bryium huilensi</i> s Weiw et Bub. CAESALPINIACEAE		Moss	
Afzelia quanzensis Welw.	Mwale, Mbambakofi	Tree	Timber, poles, fuelwood
Bauhinia petersiana Bolle	Msengera	Tree	Fuelwood, poles, medicinal
Brachystegia microphylla Harms.	Msani	Tree	Fuelwood, charcoal, timber
Brachystegia spiciformis Benth.	Myombo	Tree	Fuelwood, poles, rope, timber
Cassia kirkii L.	Luweletsi	Shrub	
<i>Dialium holtzii</i> Harms	Mkongo	Tree	Fuelwood
Erythrophleum suaveoleus (Guill. & Perr.) Brenan.	Mkungugu	Tree	Fuelwood, pestle, handles
Lysidice rhodostegia Hance.	Mpinati	Tree	Poles, fuelwood, toolhandles
CARICACEAE			
Cylicomorpha parvifolia Urban CARYOPHYLLACEAE	Mvolvolo	Tree	Bee hives
Drymaria cordata (L.) Wild ex R & L CELASTRACEAE	Kipande, Bapala	Herb	Medicinal
Mystroxylon aethiopicum (Thunb) Loes. Maytenus senegalensis (Lam) Exell	Mhomelo Mbondo, Kisugi	Shrub Shrub	Utensils
M. undata (Thunb.) Blakelock	Mhomeio	Shrub	Fuelwood, utensils
Loesieneriella apocynoides (Oliv.) J. Raynal	Kinyongo	Climber	Local door making
Simirestis goetzei (Loes.) R. Wilczak CHYSOBALANCEAE	Likinyongo	Climber	
Hirtella megacarpa R.Graham		Tree	Fuelwood
Parinari curatellifolia (Planch) Benth.	Msaula	Tree	Edible fruits, fuelwood
P. excelsa Sabene	Msaula	Tree	Timber, fuelwood, fruits, bridges
COMBRETACEAE Combretum apiculata Sond.	Mlama	Tree	Fuelwood, poles,
C. molle G.Don.	Kalama	Tree	charcoal Poles, fuelwood, charcoal

BOTANICAL NAME	LOCAL NAME	GROWTH HABIT	LOCAL USES
C. zeyheri Sond.	Miama	Tree	Pestles, charcoal, fuelwood, poles
Combretum sp	Mfufugala	Tree	, ,
Terminalia sambesiana Engl. & Diels	Mkundikwava	Tree	Timber, poles, fuelwood
COMMELINACEAE			
Aneilema aequinoctiale (Beauv) Kunth.	Ngiholawoga	Herb	
Commelina africana L.	Ngulumbwembwe	Herb	
C. banghalensis L.	Ngolowoga	Herb	Fodder
C. latifolia A.Rich.	Ngolowoga	Herb	Fodder
Pollia condensata C.B.Cl COMPOSITAE	Mlelevasi	Herb	
Ageratum conyzoides L	Mzunguzungu	Herb	
Anisopappus oliveranus Wild.		Herb	
Aspilia mossambicensis (Oliv.) Wild.	Kisengelawahinza	Herb	
<i>Blumea aurita</i> (L) Wight		Shrub	
Bidens holstii (O.Hoffm.) Sherff.	Libangwi, Mbangwe	Shrub	Medicinal
B. pilosa L.	Mbangalala	Herb	Medicinal
Berkheya echnacea O. Hoffm.	Namgoha	Herb	
Chrysanthemoides monilifera (L) Nort.		Shrub	
Conyza floribunda (H.B.K.) Sch. Bip.	Mnung'anung'a	Shrub	
C. persicalfolia (Benth.) Oliv. & Hiern	Mbalikila	Shrub	
Emilia sagitata DC.	Sunga	Herb	Medicinal
Gerbera abyssinica Sch. Bip		Herb	
Gutanbergia polycephala Oliv. & Hiem.		Herb	
Helichrysum foetidum (L.) Cass.	Linusi	Herb	Medicinal
H. odoratissimum (L.) Less	Nyawibala	Herb	Medicinal
H. schimperi (Sch.Bip.ex A.Rich.) Moeser	Mfufugala, Libunda	Creeper	Medicinal
Laggera alato (D.Don.) Oliv.	Namgoha	Herb	
Launea comuta (Oliv. & Hiern) C.Jeffrey	Sunga	Herb	Vegetable, medicinal
Microglossa densiflora Hook. F.	Kalumbwegila	Shrub	Medicinal
Pluchea monocephala E.A.Bruce	Mpolioto	Herb	
Senecio stolzii Mattfield	Litembuliga	Herb	Medicinal
Senecio sp	Ngelulila	Herb	
Solanensio angulatus (Vahl) C.Jeffrey	Kibuluma	Climber	Medicinal
S. mannii (Hook. f) C.Jeffrey	Tambulalivyovyo	Herb	Medicinal
Sphaeranthus suaveolens D.C.	Likegeta	Herb	
Vernonia abbotiana O.Hoffn.	Kipwaga	Herb	
V. amygdalina Delile.	Tugutu, Ibaha	Shrub	Medicinal
V. anthelmitica (L) Wild.	Mgongo	Herb	N A 1: - : 1
V. cinerea (L) Less	Mbalikila	Herb	Medicinal
V. glabra (Steetz) Vatke	Namgoha	Shrub	Medicinal
V. lasiopus O. Hoffm. V. myriantha Hook. f	Libaha	Shrub	Madiainal nallan
	Tugutu/ Mtugutu	Shrub	Medicinal, pollen for honey
V. usambarensis O.Hoffm.	Lipasa	Herb	
CONNARACEAE	Kinyayala£	Climakarı	Madiai1
Agalaea heterophyla Gilg.	Kinyavalafi, Nyakatitu	Climber	Medicinal
Byrsocarpus boivinianus (Bail) Schell	Kitongolo, Kanyawalafi	Shrub	Utensils, medicinal
B. orientalis (Baill) Bak.	Kinyavalafi	Climber	

BOTANICAL NAME	LOCAL NAME	GROWTH HABIT	LOCAL USES
CONVOLVULACEAE		_	
Ipomea involucrata Beaiuv. CRASULACEAE	Lukegeta	Climber	
Kalanchoe crenata (Andrew) Haw	Lopolopolo	Herb	Medicinal
CUCUBITACEAE	Соролороло	11015	woodomar
Momordica anigosantha Hook. f.	Kinyanumta	Climber	Medicinal
M. foetida Schumach. & Thunn.	Lisonyi	Climber	Medicinal
Momodica sp CYPERACEAE	Lisonyu	Climber	Medicinal
Carex echinochloe Kuntze	Lipopoma	Sedge	Thatching
Cyperus ajax C.B.Cl.	Linyamalati	Sedge	Thatching
C. distans L.	Mwahatsa, Haala	Sedge	Thatching
Kyllinga erecta Schumach.		Sedge	Thatching
Mariscus umbelatus Vahl. CYATHEACEAE		Sedge	Thatching
Cyathea manniana Hook.	Liheha	Tree fern	Poles,
			medicinal
DAVALIACEAE			
Nephrolepis biserrata (Swartz.) Schott.	Mtsululusi	Fern	
DENNSTAEDIACEAE  Blotiela natalensis (Hook) Tryon	Mfulukiki	Fern	
Pteridium sp	Lisilo, Masululusi	Fern	
DIPSACACEAE	,		
Cephalaris sp		Herb	
EBENACEAE  Diospyros usambarensis F.White	Nyakatitu	Tree	Euchwood dvo
D. whyteana (Hiern) F.White	Nyakatitu Msisina, Nyakatitu	Tree	Fuelwood, dye Timber,
D. Whytouna (Filom) (Filom)	Moloma, Hyakama	1100	fuelwood,
			medicinal
D. zombensis (B L.Burth) F.White	Nyakatitu	Tree	Fuelwood,
ERICACEAE			medicinal
Agauria salicifolia (Lam.) Oliv.	Mkolongo	Tree	Medicinal, poles,
, , ,			fuelwood
EUPHORBIACEAE		<b>.</b>	
Acalypha chirindica S, Moor.	Kililafuno	Shrub	Cialatara a
A. fructosa Forsk A. omata A.Rich.	Kitegero Kivaaga, Suguluti	Shrub Shrub	Fishtraps Medicinal
Antidesma membranaceum Muell.	Likandekande	Tree	Poles, fuelwood,
			medicinal
<i>Bridelia carthartica</i> Bartol. f.	Iheyero	Tree	Medicinal,
B. micrantha (Hochst) Baill	Muitoo	Tree	poles, fuelwood
B. Hilcranina (Hochst) Bani	Mwitsa, Mpalang'ang'a	riee	Medicinal, fuelwood, dye,
	mpalarig arig a		beehives,
			timber
Clutia abyssinica Jaub. & Spach var.	Kipwaga	Shrub	
pedicellaris (Pax) Pax C. paxia Knauf		Shrub	
Drypetes natalensis (Harv.) Hutch.	Mputsa	Tree	Poles, fuelwood
Erythrococa usambarica Prain	Mumbere	Shrub	. 0.00, .00, .00
Erythrococa sp.	Mwefi	Shrub	
Euphorbia hirta L.		Herb	
E. usambarica Pax.	Kingavalami	Herb	

BOTANICAL NAME	LOCAL NAME	GROWTH	LOCAL USES
·		HABIT	
Macaranga kilimandscharica Pax.	Mpalala	Tree	Timber, poles,
			fuelwood, beehives,
			medicinal
Margaritaria discoidea (Baill.)	Kiheyero	Shrub	Fuel, poles,
Webster.	ranoyoro	Omab	medicinal
M. discoidea (Baill.) Webster var.	Mnepa	Shrub	Fuel,
fragifolia (Pax.) Á.R.Sm.	•		Medicinal
Neobotonia macrocalyx Pax	Mhewe	Tree	Fuelwood
Phyllanthus amarus Schum. & Thonn.	Kambulikweo	Shrub	Medicinal
P. fischeri Pax.	Kinyang'anya	Shrub	
P. leucanthus Pax.	Kimbilinkweyo	Shrub	Medicinal
P. leucocalyx Hutch.	Minahamala	Shrub	Maratta tara 1
P. reticulatus Poir.	Kigohomola	Shrub	Medicinal
Phyllanthus sp.	Kitogolo	Shrub	Poles, fuelwood
Phyllanthus sp	Kinyavalafi	Shrub	Medicinal
Pseudolachnostylis maproneifolia	Msolo	Tree	Medicinal,
(Pax. var. <i>mapronelfolia</i> Pax.	1410010	1100	fuelwood
Sapium ellipticum (Krauss) Pax.	Mkwembi	Tree	Fuelwood
Suregada procera (Prain.) Croizat.	Mkangafu	Tree	Fuelwood
Uapaca kirkiana Muell.	Mguhu	Tree	Fruits, beehives,
•	· ·		poles, fuelwood
U. nitida Muell. Arg.	Mtoto	Tree	Fruits, beehives,
			poles, charcoal,
			fuelwood
FLACOURTIACEAE			
Aphloia theiformis (Vaht) Benn	Mpumu	Tree	Poles,
			fuelwood,
			medicinal utensils
Casearia battiscombei R.E.Fries	Mpeeta, Mlelulelu	Tree	Timber, poles,
Cascana battiscomber N.E.I nes	impoota, micrarola	1100	fuelwood
Coloncoba welwitchii Oliv.	Mguoguo,	Tree	Poles, fuelwood
	Kisegichiela		,
Dasylepis integra Warb.	Mvinditi	Tree	Poles, pestles,
Flacourtia indica (Burm f.) Merrill	Mgogola,	Small tree	Pestles, fruits,
	Mpingipingi		fuelwood
Kiggelaria africana L.	Mgukukanzua	Tree	Timber, poles
Lindackeria sp.	Mkoko	Tree	Handles,
			spear handles
		_	fuel, poles
Ludia mauritiana Gmelin	Kajiwe	Tree	Poles, fuelwood,
Rawsonia lucida Harv. &Sond	M alamahi	T	wedges
	Mvalambi Mainginingi	Tree Shrub	Fuelwood
Scolopia rhamniphylla Gilg.	Mpingipingi	Shrub	Medicinal, fruits
Trimeria grandflora (Hochst) Warb		Small tree	iruits
GRAMINAE		Oman tree	
Arudinaria alpina K. Schum.	Mdenge, Msisi	Bamboo	Poles, weaving,
and the second s			thatching
Hyparrhenia collina (Pilg.) Stapf.	Lipelele	Grass	Fodder,
	•		thatching
Isachne mautiana Kunth.	Lukuvata	Grass	Thatch, fodder

BOTANICAL NAME	LOCAL NAME	GROWTH HABIT	LOCAL USES
Miscanthus violaceus (K.Schum.) Pilg. Oxytheanthera abyssinica (A.Rich.) Munro	Falugugu Lilanzi	Grass Bamboo	Fodder, thatch Poles, local brew, utensils
Panicum maximum Jacq.		Grass	Thatching
P. trichocladum K.Schum.	Lugoya	Grass	Thatching, fodder
Pennicetum polystachyon (L.) Schult	Mpembamlusi	Grass	Thatching, fodder
P. unicetum (Nees) Benth. Phragmites mauritianus Kunth.	Lipopoma Matete	Grass Grass	Thatching Medicinal, weaving, thatching
Setaria megaphylla (Stend) Th. Dur & Schiz	Swakalaswakala	Grass	Thatching
Setaria sp GLEICHENIACEAE	Kokowo	Grass	Thatching
Dicranopteris linearis (Burm.f.) Underw GUTIFERACEAE		Fern	
Allanblackia stuhlmanii (Engl.) Engl.	Mlomboti, Mkani	Tree	Poles, timber, fruits for animals
A. ulugurensis Engl.	Mkani, Msengera	Tree	Fuelwood, poles, Medicinal, timber
Garcinia buchananii Baker	Mduma	Tree	Withies, fruit
G. huillensis Oliv.	Mfilafila, Mkatsa	Tree	Timber, fuelwood,
Harungana madagascariensis Poir.	Mbalala, Kisyembadanda	Tree	Glue, dyes, fuelwood
Harungana sp	Mvavata	Tree	Fuelwood, poles, medicinal, timber
Hypericum peplifolium A.Rich. HALORAXGIDACEAE		Creeper	,
Gunnera persensa L. HAMAMELIDACEAE	Kinyilimbi	Herb	
Trichocladus ellipticus Eckl. & Zeyh. HYPOXIDACEAE		Tree	Fuelwood
Hypoxis urceolata Nel. ICACINACEAE		Herb	
Alsodeiopsis schumannii (Engl.) Engl.		Small tree, shrub	Fuelwood, poles
IRIDACEAE			•
Aristea alata Baker		Herb	
Crocosmia aurea Planch IXONANTHACEAE		Herb	
Phyllocosmus lemaireanus (De Wild &Th Dur.) Th. & H.Dur. LABIATAE	Kitagata	Tree	Poles, fuelwood
Achyrospermum canvalhi Gurke Becium capitatum (Bak.) Agnew	Lyamkalichuma	Shrub Herb	
Coleus luteus (Gurke) Staner Geniosporum rotundifolium Brig.	Mbosoboso	Shrub Herb	
Hoslundia opposita Vahl.	Kinunganunga	Herb	Medicinal
Leucas deflexa Hook, f.	Kihomonula, Ngelengasa	Herb	Medicinal
L. martinscinsis R. Br.	J . J	Herb	

BOTANICAL NAME	LOCAL NAME	GROWTH HABIT	LOCAL USES
Leonotis mollisma Guerke.	Ngingelengasa	Shrub	Medicinal
Ocimum suave Willd.	Kinung'anung'a	Shrub	Medicinal
Plectranchus sp	Lufufu	Herb	Medicinal
Pycnostachys meyeri Guerke		Shrub	Medicinal
Solenostemon sylvaticus (Gurke)	Libosoboso	Creeper	Medicinal.
Agnew	Libosoboso	Orechei	Medicinal.
LAURACEAE			
	A describer also de la Admissa	Tues	Time have
Cryptocarya liebertiana Engl.	Mwitsukulu, Mhulo	Tree	Timber,
		_	fuelwood
Cryptocarpa sp	Ngulukanzila,	Tree	Timber,
	Mmemona		beehives,
			fuelwood
Ocotea usambarensis Engl.	Mheti	Tree	Timber,
			fuelwood,
			medicinal
LILIACEAE			
Asparagus africanus Lam	Lipalakanga	Shrub	Medicinal
A. asiatica L.	Lipalakanga	Shrub	Modiomai
A. asparagoides (L.) Wight	Mgombagomba	Shrub	
A. buchananii Bak.	Palakanga	Shrub	
A. sateceus (Kunth) Jessop	Palakanga	Climber	
Glorilosa simplex L.	Nyamului	Herb	
LOBELIACEAE			
Lobelia giberroa Hemsl.	Libongobongo, Lihale	Herb	Medicinal
Lobelia holstii Engl.	Luisa kubwa	Herb	Medicinal
LOGANIACEAE			
Anthoclesta grandiflora Gilg	Mumbala	Tree	Medicinal, fish
•			poison, timber
Buddleia salviifolia (L) Lam	Muhahasa	Shrub	Fuelwood
Mostuea brunonis Didr.	Lufyeki/Kawisasa	Shrub	Medicinal
Nuxia congesta Fresen	Early Onto A Carrio a Car	Tree	Fuelwood
N. floribunda Benth.	Mkogo	Tree	Fuelwood, poles
Strychnos angolensis Gilg.	Lubondalafuno	Shrub	Withies, poles
S. mitis S.Moore	Luboridalaidrio	Shrub	vviulies, poles
	121		
S. scheffleri Gilg &Busse	Kibangwi	Climber	** 11 1
S. spinosa Lam.	Mungulungulu	Shrub	Medicinal,
_			fuelwood, fruits
LORANTHACEAE			
Agelanthus sansibarensis (Engl.)	Ulimbo, Ngurkira	Parasite	Medicinal,
Polh. & Wiens			birdlime
Englerina woodfordioides Schweinf.	Ulimbo	Parasite	Birdlime
Loranthus sp	Ulimbo	Parasite	Birdlime
LYCOPODIACEAE			
Lycopodium cermum L.	Lubakysahomi	Fern	Mattreses
L. clavatum L.	Lubakysabatamu	Fern	Mattresses
MALVACEAE	Labarybasararia		Mattrodoco
Hibiscus diversifolia Jacq	Mhangana,	Shrub	Medicinal,
r noiseus arversirena sacq		Siliub	
H. fuscus Garcke.	linyangamabere Lufufu	Charle	ropes
		Shrub	Medicinal
Pavonia patens Chiov.	Lukole	Shrub	_
P. urens Cav.	Lukole	Shrub	Ropes
Pavonia sp	Mlegehi	Climber	Ropes
MARANTTIACEAE			
Marattia fraxinea Sm. ex J. F. Gmel		Fern	

BOTANICAL NAME	LOCAL NAME	GROWTH HABIT	LOCAL USES
MELASTOMATACEAE			
Calvoa orientalis Taub	Mtsengelahinza	Shrub	
Dissotis bussei Engl.	Negastuva	Shrub	
D. rotundifolia (Sm.) Triana	Mwini	Herb	
Dissotis sp	Negichwa	Shrub	Medicinal
Melastomastrum capitatum (Vahl.)		Shrub	
A.R.Fernandes			
Memecylon verruculosum Brenan		Shrub	
Tristemma maritianum J.F.Gmel.	Kifumbilamatingo	Shrub	Medicinal,
			edible fruits
MELIACEAE			
Khaya anthotheca (Welw) C.DC.	Mkangazi	Tree	Timber, fuelwood
Lepidotrichilia volkensii (Gurke) Leroy	Mufanga	Small tree	Fuelwood
Trichilia emetica Vahl.	Mlindimita	Tree	Fuelwood
Turraea holstii Guerke	Mhamamala/Kiha-	Tree	Building,
	mamala		medicinal,
			fuelwood
MELLIANTHACEAE	N. 41	т.	N # - 12 - 2 1
Bersama abyssinica Fres.	Mbatsamono,	Tree	Medicinal,
	Mpeme		fuelwood,
MENICOEDMACEAE			timber
MENISPERMACEAE	Mandanana	Climban	Danna
Cissampelos mucronata A. Rich.	Nandarope	Climber	Ropes
Stephania abyssinica (Dill &A.Rich)	Kaswana	Climber	
Walp.	D. J. J.	Oliver by man	A 4 = -11 = 1 = 1
Tiliacora funifera (Miers) Oliv.	Pulula	Climber	Medicinal
MIMOSACEAE	171		
Acacia shweinfurthii Benan ex Exel	Kitona	Climber	<b>5</b>
Albizia glaberrima (Schumach	Mbegesya	Tree	Fuelwood, poles,
&Thonn.) Benth.	5.4:	_	canoes, mortars
A. gummifera (J.F.Gmel.) C.A.Sm.	Mtanga	Tree	Handles, mortars,
			poles, beehives,
A materials (Della) Oliv	Maria	<b>T</b>	medicinal, timber
A. petersiana (Bolle) Oliv.	Mgoma	Tree	Medicinal-
Entando obvigaínico (Ctavel ) A Diab	Mhadadama	T	snakebite
Entanda abyssinica (Stevd.) A.Rich.	Mhulodonya	Tree	Fuelwood, rain
Maudania hushananii (Pakar) Gila 9	Manne	Tues	indicator
Newtonia buchananii (Baker) Gilg. &	Mgongo	Tree	Timber, canoes,
Bout.			fuelwood
MONIMIACEAE	Micombone	T	Fushings
Xymolos monospora (Harv.) Baill.	Mkombamwiko	Tree	Fuelwood,
			handles,
MORACEAE			utensils
Dorstenia orientalis De Wild	Mfilafila	Shrub	
Dorstenia sp	Lingu'ng'u	Herb	
Ficus altissima Blume	Mdamba Mdamba	Tree	
F. cyathistipula Warb		Tree	Conducti
F. exasperata Vahl.	Mshasha/Kivulugo	Tree	Sandpaper,
F incons (Mig.) Mig.	Mtombo	Troc	poles
F. ingens (Miq.) Miq.	Mtamba	Tree	Rain indicator,
F. ottonifolia (Miq.) Miq.	Mdamba	Tree	edible
1. Ottorinona (wild.) wild.	Mdamba	1166	Rain indicator,
			fruits

BOTANICAL NAME	LOCAL NAME	GROWTH HABIT	LOCAL USES
F. scassellatii Pump. ssp scassellatii F. sur Forssk.	Mdamba Mtsombe, mkuyu	Tree Tree	Birdlime Medicinal, mortars, fuelwood
F. sycomorus L.	Mkuyu	Tree	Mortars
F. thoningii Bl.	Mdamba	Tree	Medicinal
F. vallis-choudae Del.,	Mzombe	Tree	Mortars, medicinal
Milicia excelsa (Welw.) C.C.Berg.	Mvule	Tree	Timber, canoes, medicinal
Myrianthus arboreus P. Beauv.	Mpuitsa	Tree	Fruits, fuelwood, poles
M. holstii Engl.	Mvavalambi, kwariti	Tree	Poles, fuelwood
Trilepsium madagascariense DC MYRICACEAE	Mkweta	Tree	Fuelwood, poles
Myrica humilis Cham & Schltdl.	Mdaiza/ Mwefi	Tree	Poles, fuelwod, medicinal
MYRISTICACEAE  Cephalosphaera usambarensis  (Warb) Warb.  MYRSINACEAE	Mtugutsa	Tree	Poles, fuelwood, bridges
Embelia schimperi Vatke,	Mnyaninyani, Mhanyi	Climber	Medicinal
Maesa lanceolata Forsk.	Kiguti	Tree	Medicinal
Myrsine africana L.	Lufyogo	Shrub	Medicinal
Myrsine melanophloeos (L.) R.Br.		Tree	Timber, medicinal
MYRTACEAE			
Syzygium cordatum Hochst. ex Kiause	Mvenge, Mlalambe	Tree	Timber, poles, fuelwood, fruits
S. guineense (Willd.) DC.	Mvenge	Tree	Timber, poles, fruits, fuelwood
<i>Syzygium</i> sp. OCHNACEAE	Mvenge mdogo	Small tree	Medicinal
Ochna holstii Engl.	Mkwaliti, Mvalambe	Small tree	Medicinal, poles, fuelwood, pestle
O. mossambicensis Klotzcsch. OLACACEAE	Lulangaladuka	Small tree	Fuelwood, poles
Strombosia scheffleri Engl.	Mkongotsa, Mhangana	Tree	medicinal, fuelwood, poles, timber
Strombosia sp.	Mhulo	Tree	Poles, withies
Ximenia caffra Sond.	Mpingipingi	Shrub	Edible fruits, medicinal
OLEACEAE			
Jasminum flumenense Vell.	Kihaagadume, Lukanyakatsege	Shrub	Medicinal, ornamental
Olea capensis L.	Mgiwe, Mhagati	Tree	Timber, fuelwood, poles
O. europea L. ssp africana (Mill.) P.S. Green	Mgiwe, Mhagati	Tree	Timber, fuelwood, poles

BOTANICAL NAME	LOCAL NAME	GROWTH HABIT	LOCAL USES
Schrebera alata (Hochst) Welw.	Lukombamwiko, Mhongola	Tree	Fuelwood, utencils, rafters, medicinal
S. trichoclada Welw. OLINIACEAE	Kivambaduma	Tree	Poles, fuelwood
Olinia rechetiana A.Juss	Mliandege	Tree	Fuelwood, poles, medicinal
ORCHIDACEAE Aerangis coriaceae Summerhayes A. Iuteoalba (Kraenz.) Schlt. Ansellia africana Lindl. Calantha sylvatica (Thon) Lindl Disperis anthoceros Reichb. f. Eulophia sp. Polystachya tesellata Lindley Polystachya sp.	Likenyangubi Mkumburu Mdetema Kikoluwoga	Orchid Orchid Orchid Orchid Orchid Orchid Orchid Orchid	Medicinal, ornamental Medicinal,
OSMUNDACEAE	·		ornamental
Osmunda regalis L.	Mfululusi	Terestrial fern	
OXALIDACEAE Oxali corymbosa DC. PALMAE		Herb	
Borassus aethiopicum Mart.	Mkochi	Tree	Thatch, local brew
Phoenix reclinata Jacq.	Ngoeta, makweta	Tree (palm)	Weaving, thatching, ropes, poles
Raphia famifera (Gaertner) H. Hylander PAPILIONACEAE	Mwivale	Tree palm	Weaving, ropes, thatching poles
Abrus precatorius L. Adenocarpus mannii (Hook. f.) Hook. f. Argyolobium sp.	Kalendi Nzelenyululu	Climber Shrub Shrub	Medicinal Fodder
Crotalaria natalitia Meissn.  Dalbergia boehnii Taub. ssp boehnii  D. boehnii Taub. ssp stuhlmanii  (Taub.) Polhill	Mgungu Mbegesya	Shrub Tree Tree	Medicinal Medicinal Fuel, poles, mortals
D. lactea Vatke D. nitidula Bak.	Mgungu Mlungulungu	Climber Small Tree	Medicinal, ropes Poles, pestle, medicinal
Desmodium adscendens (Sw.) DC. Dolichos sp	Viselenyululu Kinyawalafi	Creeper Climber	Medicinal
Eriosema buchananii Bak. f. E. ellipticum Welw. ex Bak. E. scioanum Avetta	Kinyawaganga Kifilafila	Herb Shrub Herb	Medicinal Medicinal
Erythrina abyssinica DC. Flemingia grahamiana Wight. & Arn. I ndigofera emarginella Stend. ex A.Rich. I. hedyantha Eckl. & Zeyh. I. longibarbata Engl.	Mheni Kisufi Kigihomola	Tree Shrub Shrub Shrub Herb	Medicinal Fodder

BOTANICAL NAME	LOCAL NAME	GROWTH HABIT	LOCAL USES
I. viscidissima Bak ssp orientalis Gillett		Shrub	
I. vohemarensis Bail. Kotschya uguenensis (Taub.) F.White	Itonga	Herb Shrub	
Lonchocarpus bussei Harms	Kisindaupapi	Tree	
Macrotyloma axillare (E. Mey.) Verdc.	Lingangali	Creeper	
Millettia bussei Harms	Mkungugu, Lihafu	Tree	Pesttle, fuel
		_	toolhandles
M. dura Dunn.	Mhafe	Tree	Honey, pestle, fuelwood, poles
Mucuna pruriens (L.) DC.	Likesele	Climber	
Pericopsis angolensis (Bak.) Van	Mwanga	Tree	Fuelwood,
Meeuwen.	1. 41 · 11		canoes
Pseudarthria hookeri Wight & Arn.	Mbali	Tree	Fodder
Pterocarpus angolensis DC.	Mninga	Tree	Timber, medicinal
P. tinctoris Welw.	Mnyingamaji	Tree	Timber
Rhynchosia hirta (Andr.) Meikle.&	Livambalasimba	Climber	11111001
Verdc.			
Tephrosia aequilata Bak.		Shrub	
Vigna sp.	Kipande	Climber	Medicinal
Xeroderris stuhlmannii (Taub)	Mubeghesa	Tree	Poles, mortars,
Mendonca & E.P Sousa			fuelwood
PASSIFLORACEAE	1	Olimah au	N A = =11 = 1 = = 1
Adenia cissampelos (Planch) Harms	Logolomosi Igolomosi	Climber Climber	Medicinal
Basanantha sp. Passiflora sp.	Limbore , kikwepele	Climber	Ropes Fruits
PIPERACEAE	Limbore, kikwepere	Ollifibei	Truits
Piper capensis L. f.	Kundukundu,	Shrub	Fruits, spice,
	Ludaha		medicinal
P. umbellutum L.	Litundilambwa,	Shrub	Medicinal
	ludaha		
PITTOSPORACEAE		T	
Pittosporum lynessii Cuf. POLYGALACEAE		Tree	
Polygala gomesiana Welw ex. Oliv.		Shrub	
P. sphenoptera Fresen	Kinyangolola	Herb	Medicinal
P. virginata Thunb. Polygala sp nr	Kinyangoloma	Herb	Medicinal
<i>kilimanjarica</i> Chill.	, 0		
POLYGONACEAE			
Polygonum salicifolium Brous ex. Wild.		Herb	
Polygonum sp.	Linyolo	Creeper	Fodder
Rumex abyssinicus Jacq.	Lipembapemba	Herb	Dye, medicinal
POLYPODIACEAE		Fern	
Drynaria laurentii (Christ.) Hieron. Loxogramme lanceolata (Swartz.) C.		Fern	
Presi			
Phymatodes scolopendria (Burm. f.) Ching		Fern	
Pleopeltis macrocarpa (Willd.) & Kauf. PROTEACEAE		Fern	Ornamental
Faurea saligna Harv	Mhenyi	Tree	Beehives, charcoal, honey, fuelwood, poles

BOTANICAL NAME	LOCAL NAME	GROWTH HABIT	LOCAL USES
RANUNCLUACEAE			
Clematis brachiata Thunb.	Kalichuma	Climber	Medicinal
Clematis simensis Frez.	Mwiva, Kinyanguli	Climber	Medicinal
Ranunuclus sp.	ga	Herb	
Thalictrum rhynchocarpum Dillone &	Kisisi	Herb	Medicinal
A.Rich.	17(3(3)	11610	Medicinal
RHAMNACEAE		Oli I	
Gouania longispicata Engl.		Climber	
Rhamnus prinoides L. Herit.	Likamanda	Shrub	Medicinal
Scutia myritina (Burm. f.) Kutz.	Kidasi	Smail tree	
RHIZOPHORACEAE			
Cassipourea gummiflua Tul.	Msengera	Tree	Poles, fuelwood
C. malasana (Bak) Alston.	Msengera	Tree	Timber, poles,
	Wiserigera	1166	withies
ROSACEAE			
Prunus africana (Hook. f.) Kalkman	Mwiluti, Muvanga	Tree	Timber, poles, pestles
Rubus apetalus Poir	Mwifa	Shrub	Fruits
Rubus sp.	Mdasi	Shrub	Fruits, medicinal
RUBIACEAE		22	
Bertiera pauloi Verdc.	Muwawata	Shrub	Fuewood
Cathium oligocarpum Hiern ssp	Mhamamaia,	Tree	Fuelwood,
		1166	•
captum (Bullock) Bridson	Mhamangambakwa	Ole in I	poles
Catunaregum spinosa (Thunb.)	Tutumo	Shrub	Medicinal,
Tirvengadum ssp spinosa		<b>.</b>	fuelwood
Chassalia parvifolia K.Schum.	Kivalika, Kitelutelu	Shrub d	Poles, fuelwood
Cremaspora triflora (Thonn.)	Likongo	Shrub	Medicinal,
K.Schum.			fuelwood,
			poles, pestle
Coffea sp nr C. eugenioides S.Moore	Lukongogosi	Shrub	Withies, local
			doors
Fadogia triphylla Bak.	Kihulanzunya	Shrub	Medicinal
Gardenia ternifolia K.Schumach.	Mwanamasae	Tree	Poles, fuelwood
Geophila obvallata Schumac	Matigahuhu	Herb	Medicinal
Hymenodictyon floribundum (Hoschst	Mbandabanda	Tree	Fuelwood
& Stend.) B.L.Robynson		Cm=11.4=== 4	
xora scheffleri K.Schum & K. Krauss		Small tree/	
		Shrub	
Keetia venosa (Oliv.) Bridson	Komangambakwa	Climber	
Lagynias pallidiflora Bullock	Mhamamala	Tree	Fuelwood,
			poles, withies
Lasianthus sp.		Shrub	poles, withies Medicinal,
Lasianthus sp.	Mchenga	Shrub	Medicinal,
·	Mchenga		Medicinal, fuelwood
Lasianthus sp. Leptactina platyphylla (Hiern) Wernh.		Shrub Shrub	Medicinal, fuelwood Withies, poles,
Leptactina platyphylla (Hiern) Wernh.	Mchenga Mvavata	Shrub	Medicinal, fuelwood Withies, poles, fuelwood
Leptactina platyphylla (Hiern) Wernh.  Multidentia crassa (Hiern) Bridson &	Mchenga		Medicinal, fuelwood Withies, poles, fuelwood Poles,
Leptactina platyphylla (Hiern) Wernh.  Multidentia crassa (Hiern) Bridson & Verdc.	Mchenga Mvavata Mwanamasae	Shrub Tree	Medicinal, fuelwood Withies, poles, fuelwood Poles, fuelwood
Leptactina platyphylla (Hiern) Wernh.  Multidentia crassa (Hiern) Bridson & Verdc.  M. fanshwei (Tennant) Bridson	Mchenga Mvavata Mwanamasae Mdegedege	Shrub Tree Tree	Medicinal, fuelwood Withies, poles, fuelwood Poles, fuelwood Medicinal
Leptactina platyphylla (Hiern) Wernh.  Multidentia crassa (Hiern) Bridson & Verdc.  M. fanshwei (Tennant) Bridson  Mussaenda arcuata Poir	Mchenga Mvavata Mwanamasae	Shrub Tree Tree Shrub	Medicinal, fuelwood Withies, poles, fuelwood Poles, fuelwood
Leptactina platyphylla (Hiern) Wernh.  Multidentia crassa (Hiern) Bridson & Verdc.  M. fanshwei (Tennant) Bridson  Mussaenda arcuata Poir Oldenlandia herbacea (L.) Roxb.	Mchenga Mvavata Mwanamasae Mdegedege Ndokori	Shrub Tree Tree	Medicinal, fuelwood Withies, poles, fuelwood Poles, fuelwood Medicinal Fuelwood, poles
Leptactina platyphylla (Hiern) Wernh.  Multidentia crassa (Hiern) Bridson & Verdc.  M. fanshwei (Tennant) Bridson  Mussaenda arcuata Poir	Mchenga Mvavata Mwanamasae Mdegedege	Shrub Tree Tree Shrub	Medicinal, fuelwood Withies, poles, fuelwood Poles, fuelwood Medicinal
Leptactina platyphylla (Hiern) Wernh.  Multidentia crassa (Hiern) Bridson & Verdc.  M. fanshwei (Tennant) Bridson  Mussaenda arcuata Poir Oldenlandia herbacea (L.) Roxb.	Mchenga Mvavata Mwanamasae Mdegedege Ndokori	Shrub Tree Tree Shrub Creeper	Medicinal, fuelwood Withies, poles, fuelwood Poles, fuelwood Medicinal Fuelwood, poles

BOTANICAL NAME	LOCAL NAME	GROWTH HABIT	LOCAL USES
Oxyanthus sp.	Mpwaga	Shrub	Withies
Pauridiantha paucinervis (Hiem) Bremek.	Lupwaga,	Small tree	Poles.
ssp holstii (K.Schum.) Verdc.	Msengera		fuelwood
Pavetta abyssinica Fres.	,	Shrub	100.11000
P. hymnephylla Bremek.		Shrub	
P. manyanguensis Bridson	Lyabondo	Shrub	Poles, fuel
Pavetta schumanniana K. Schum.	Idetema	Shrub	roles, luei
	luetellia	•	
Pavetta stenosepala K.Schum	Malaanaaa	Shrub	
Pentas hindsioides K.Schum	Mshengapaha	Shrub	
P. schimperana (A.Rich.)Vatke.		Shrub	
P. zanzibarica (Klotzsch.) Vatke.	Kalilafuno,	Herb	
	Vimungumungu		
Psydrax parviflora (Afzel.) Bridson.	Mvavata	Tree	Withies, poles, fuelwood
Psychotria alsophila K.Schum	Mshenga	Shrub	Fuelwood
P. cyathicalyx Petit.	•	Shrub	
Psychotria fractnervata Petit			
P. goetzei (KSchum) Petit	Mmemenangolo,	Shrub	Withies
r . goetzer (Nochann) r cat	Mmemena	Official	VVIIIICS
D. Journage (V. Sahum ) Detit		Shrub	Fushinged pales
P. lauracea (K.Schum.) Petit	Iteruteru		Fuelwood, poles
P. leucopoda Petit	Kiteruteru	Shrub	
P. megalocarpus Verdc.		Shrub	
Psychotria sp.	Kikongwa	Tree	Poles, fuelwood
Psychotria sp.	Mpwaga	Shrub	Fuelwood
Richardia scrabra L.	Matigahuhu	Herb	Poles, fuel- wood, fruits for monkeys
Rothmannia manganjae (Hiern)Robyns	Mkogo, msamata	Tree	
R. urcelliformis (Hiern.) Keay.	Mdongadonga	Tree	Poles, fuelwood
Rubia cordifolia L.Lusisye		Climber	Medicinal
Rutidea fuscencens Hiern.	Lupebeta	Shrub	Medicinal
			Ma diain - I
R. orientalis Bridson	Mkalanga	Climber	Medicinal
Rytigynia bagshawei (S.Moore)Robins	Linyavikoko	Shrub	
R. bugoyensis (K.Krause) Verdc.	Mkukuma, Kipulula	Shrub	
R. celastroides (Baill.) Verdc.	Mgungu	Shrub	
R. uhliigii (K.Schum & Krause)Verdc.	Linyavihoko	Shrub	
R. xanthotricha (K.Schum) Verdc.	Kihomangambaku	Shrub	Medicinal
Rytigynia sp.	Lifagata	Shrub	
Sabicea orientalis Wernham.	gata	Climber	
Sericanthe odoratissima (K.Schum.)	Kitambulapwaga	Shrub	Poles fuelwood,
Robbrecht.			withies
Spemacose priceae (K.Schum.) Verdc.	Linyauzuba, matigahuhu	Climber	Medicinal
Tarenna pavettoides (Harve) Sim.	Nyamsitu	Shrub	Withies, fuelwood
Tricalysia acocantheroides K.Schum.	Lukoge	Shrub	Poles, withies, fuelwood
T. bangshwei S.Moore.	Mkangafu	Shrub	
T. gilchristii Brenan	Mwahatsa	Tree	Poles, withies, fuelwood
T. pallens Hiern.	Likong'ogose, nyamsitu	Shrub	Fuelwood, poles, withies & pestles

BOTANICAL NAME	LOCAL NAME	GROWTH HABIT	LOCAL USES
Tricalysia sp.	Likombenigo	Tree	Poles, pestle
Uncaria africana G.Don.	Mgombandumbili	Climber	
Vangueria infausta Burch.	Msada	Small tree	Medicinal, fruits, fuelwood
Vangueria volkensii K.Schum.	Kibambaduma	Small tree	Fruits, poles, fuelwood
Virectaria major (K. Schum.) Verdc. RUTACEAE		Creeper	
Clausena anisata (Willd) Benth.	Mnung'anung'a	Shrub	Medicinal
Toddalia asiatica (L.) Lam.	Mtanula , kitona	Shrub	Medicinal
Vepris lanceolata (Lam) G.Don.	Mganga	Tree	Handles, withies fuelwood,
V. morogorensis (Kokw.)Mziray	Kamganga	Tree	Fuelwood
V. nobilis (Delile)	Mkusi	Small tree	Pestles poles
V. trichocarpa (Engl.) Mziray	Lupebeta	Small tree	Poles
Zanthophylum deremens (Engl.)	Mlungulungu,	Tree	Timber
Kokw.	Mhangalasi		
Z. gillettii (De Wild.) Waterm.	Mlungulungu	Tree	Timber, medicinal
Zanthoxylum sp. SAPINDACEAE	Lutona	Climber	Medicinal
Allophylus abyssinicus (Hochst) Radlk.	Mnyakisagi	Tree	Timber, medicinal
A. africanus P.Beauv.	Kwalevale, kibeghesa, segelavahinza	Shrub	in ribor, renounce for
A. calophyllus Gilg.	Lihenyero	Shrub	Poles, withies, fuelwood
A. congolanus Gilg.	Kisiasia	Shrub	Idelwood
A. chaunostachys Gilg.	Notabla	Shrub	
A. ferrugineus Taub.	Kitagati	Shrub	
Blighia unijugata Baker	Mkongowa	Tree	Fuel, poles
Chytranthus obliquinervis Engl.	······o//govia	Shrub	r doi, poloo
Deinbolia borbonica Scheff.	Mkongowa	Shrub	Medicinal
D. kilimandscharica Taub.	Mnyala	Tree	Timber, poles,
	,		fuelwood
Dodonea viscosa Jacq. L.F.	Luhani	Shrub	Fuelwood, withies
Filicum decipiens (Wight & Am.) Thwaites	Mkongo	Small tree	Fuelwood, poles
Paullinia pinnata L.	Mkyalikyuma	Climber	, asos, ps.os
Zahna africana (Radlk.) Exell.	Kasumba	Tree	Poles, fuelwood,
,			medicinal
SAPOTACEAE			
Chrysophylum gorungosanum Engl.	Mlembelembea	Tree	Timber, poles, fuelwood
Englerephyton natalensis (Sond)	Mkelele	Tree	Poles, fuelwood,
Pennington	······································	1100	withies, pestle, fruits
Maninkara sp.	Likumburu	Tree	Poles fuelwood
Mimusopsis kumel A.DC.	Mlembelembe	Tree	Fuelwood
Pouteria alnifolia (Baker) Roberty	Mheti	Tree	Poles, timber
Synsepalum cerasiferum (Welw.) Pennington	Mluati	Tree	Fuelwood
Synsepalum msolo (Engl.) Pennington	Mkumburu	Tree	Fuelwood, poles, fruits
SCROPHULARIACEA  Alectra sessiliflora (Vahl) O. Kunze		Herb	

•	BOTANICAL NAME	LOCAL NAME	GROWTH HABIT	LOCAL USES
•	Halleria lucida L.	Mhunuka/Mhuka	Shrub	Medicinal, fruits
	Lindemia brevidens Skan.		Herb	
	Selago thomsonii Rolfe		Herb	
	SELÄGINELLACEAE			
	Sellaginella abyssinica Spring		Fern	
	S. kraussiana (Kunze) A.Braun.		Fern	
	SIMAROUBACEAE			
	<i>Harrisonia abyssinica</i> Oliv. SOLANACEAE	Kihangalasi	Shrub	Poles, medicinal
	Datura arborea L.	Mpwelele	Shrub	
	Physalis periviana L.	Libotso	Creeper	Medicinal, fruits
	Solanum aculeatisimum Jacq.	Mdasi	Shrub	Medicinal
	S. anguivi Lam.	Ndwandula	Shrub	
	S. bifurcatum A.Rich.	Kimwaga,	Shrub	Medicinal
	o. Brandalarr	Lubondwa	002	
	S. goetzii Dammer	2000.10110	Shrub	Medicinal
	S. indicum L.	Ligulukahuna	Shrub	Modification
	SMILACACEAE	Ligaranaria	Omab	
	Smilax anceps Willd.	Nyazili	Climber	
	S. kraussiana Meisn	Mkwangasale,Mdasi,	Climber	Medicinal
	3. Kraussiana Weisii	Mgwabi	Omnoci	Medicinal
	STECULIACEAE	Mgwabi		
	Cola greenwayi Bren.	Luganga, Mwanga	Small tree	Poles
	C. scheffleri K.Schum.	Mgaiya	Tree	Fuelwood
	C. usambarensis Engl.	Mtwatwa	Tree	Poles, fuelwood
	Cola sp	Mkoko	Tree.	Poles fuelwood
	Dombeya burgessiae Harve	Mtowo /Mkiu	Small tree	
	-			Poles, honey, fuelwood
	Leptonychia usambarensis K.Schum.	Kandekande	Shrub	Poles, fuelwood, medicinal
	Leptonychia sp.	Mpugupugu	Tree	Fuelwood
	Steculia quinqueloba			
	THELYPERIDIACEAE			
	Christella dentata (Forssk.) Brownsey & Jermy	Mfululusi	Fern	
	Cyclosorus dentatus (Forssk) Ching.	Lisululusi	Fern	
	Thelypteris confluens (Thunb.) Morton	Mfululusi	fern	
	THYMELACEAE			
	Dicranolepsis usambarica Gilg.	Kinyavalafi	Shrub	
	Peddiea fisheri Engl.	Mkusi, Ngalulenga,	Small tree	Ropes, fuel
		Mhagava		poles
	P. subcordata Domke	Kipulula	Shrub	Ropes, medicinal
	Synaptolepis kirkii Oliv.	Katambalangwenzi	Shrub	Ropes
	TILIACEAE			-
	Grewia sp.		Shrub	
	Triumfetta annua L		Shrub	
	T. cordifolia G & P.		Shrub	
	T. rhomboidea Jacq.	Mtumanzuki	Shrub	Ropes
	T. tomatosa Boj.	Mbundungulu	Shrub	Ropes
	ULMALACEAE	•		•
	Trema orientalis (L.) Bl.	Mbefu, Mbeti	Tree	Medicinal,
	` '	,		fuelwood
	UMBELIFERAE			
	Heteromorpha trifoliata (Wendi.) Echl & Zeyh	Nyatoma	Shrub	Medicinal
	, , , , , , , , , , , , , , , , , , , ,	•		

BOTANICAL NAME	LOCAL NAME	GROWTH HABIT	LOCAL USES
Steganotaenia araliacea Hochst. URTICACEAE	Linyekenyeke	Tree	
Boehmeria macrophyla Hornem Droguetia iners (Forssk) Schweinf. Pilea usambarensis Engl.	Lugeni	Shrub Creeper Herb	
Procris crenata C. Robinson Urera hypselodendron Wedd. VERBENACEAE	Ndelema	Herb Climber	Medicinal
Cleredendron cephalathum Oliv.	Pambadume	Shrub	Medicinal
C. formicarium Guerke	Ngaleleula	Shrub	Medicinal
C. pleiosciadium Guerke.	Mpalioto	Shrub	Medicinal
Lippia plicata Bak.	Chihongole	Shrub	Medicinal, sweeping brush
Lippia javanica (Burm. f.) Spreng.	Luhongole	Shrub	Medicinal
Premna schelibenii Werd.	Lipejeho	Tree	Starting fire, fuelwood, poles
Vitex amaniensis Pieper,	Mpoma/Mkogo	Tree	Timber fuelwood
V. doniana Sweet.	Mpwanga/Mkoge	Tree	Timber, fruits, honey, fuelwood
V. madiensis Oliv.	Mpoma	Tree	Fuelwood, withies
V. strickeri Vatke & Hildebr.	Kibambaduma	Tree	Fuelwood, withies
VIOLACEAE			
Rinorea orientalis Engl.	Lamvyombo, mbondo	Shrub	Fuelwood
Rinorea sp VISCACEAE	Nyakiguni	Small tree	
Viscum sp. VITACEAE	Ulimbo	Parasite	Birdlime
Cyphostema hildebrandtii (Gilg) Willd & Drum.	Likenyangubi	Climber	Medicinal
Cyphostema sp.	Mwekeke	Climber	
Cissus rotindufolia (Forsk.) Vahl.		Climber	
C. olivera (Engl.) Gilg.	Lilegehi	Climber	Thirst conquerer
Leea guineense G. Don	Mkalichuma	Shrub	•
Rhoisissus tridentata (L. f.) Wild & Drum.	Toganigo	Climber	Poison
ZINGIBERACEAE			
Afromonium angustifolia K.Schum.	Mbwembwe	Herb	Medicinal
Costus sarmentosus Boj.	Matwewe	Herb	
Lanealmia engleri K.Schum.	Matweli	Herb	Edible fruits

Errors remaining in this appendix are the responsibility of the author.