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Full Length Research Paper

Indigenous Angiosperm biodiversity of Olabisi Onabanjo University permanent site

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The conservation of the genetic variability of the indigenous angiosperm community is a sine qua non. A survey of indigenous angiosperm biodiversity of the Olabisi Onabanjo University permanent site was undertaken. Plants collected were dried, poisoned and mounted on herbarium sheets, proper identification and confirmation in recognized herbaria were carried out. A total number of one hundred and thirty-eight (138) plant species belonging to fifty-five (55) families were collected. Of these, one hundred and twenty-seven are dicotyledons and eleven are monocotyledons. Leguminosae is the largest family with thirteen plants followed by Rubiaceae with eleven and Euphorbiaceae with nine plants. Trees were found to have significantly contributed to the ecosystem with a total number of fifty-four species, while forty-three of shrubs were recorded, climbers ten, herbs twenty-eight, grasses and sedges three. From this study it is obvious that the University permanent site is not only rich in plant biodiversity but also very rich in socio-economic values. Consequently it is highly advisable that a representative sample of this vegetation is protected for posterity so that all the indigenous plants of the study area may not be lost to the development projects embarked upon by the University.

Key words: Conservation, indigenous angiosperm, biodiversity, Olabisi Onabanjo University.

INTRODUCTION

One of the most important nonrenewable aspects of any vegetation, be it small or large is the gene pool. The genotypes of the angiosperm community within the area mapped out for the University has been fashioned by millions of years of natural selection. It is obvious that most of these genotypes will be lost due to University developmental projects. This gene pool may never be recreated. We simply do not know how to recreate a species once it has become extinct (Kimmlins, 1987). It is only wise for now to at least have an inventory of this indigenous (angiosperm) biodiversity and to make appropriate recommendation for the preservation of representative sample which will be large enough to encompass the local variation of genotypes and which

will ensure the survival of the angiosperm genetic diversity of this area. Although the question as to how large this representative sample will be in order to maintain this diversity of species has tremendous practical implications (Lovejoy and Oren, 1981).

The Olabisi Onabanjo University campus site (Figure 1) situated in Ago-Iwoye falls within the equatorial belt of Nigeria at longitude 3° 55[°] east of the Greenwich Meridian and latitude 6° 56[°], north of the equator. Ago-Iwoye is about 7 km from Oru and about 5 km from Ijebu-Igbo, which are the two major towns in the Ijebu North Local Government area. The town is about 100 km Southeast of Abeokuta, the Ogun State capital (Master plan, 1985). The site lies to the South-western part of Ago-Iwoye approximately 35 km from the centre of the town and is bounded on the North by Ijebu-Igbo/ Oru/Ago-Iwoye/ Ijesha-Ijebu/ Ilishan road and on the east by Ago-Iwoye/ Imodi-Imosan/ Ijebu-Ode road. The perimeter roads are connected to Lagos-Benin expressway and the

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Figure1. Sample location Olabisi Onabanjo University, permanent campus.

Table 1.	Identified ke	y species.
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S/N	Botanical name	Family	Local name
1	Abrus precatorius L.	Leguminosae	Oju ologbo, omisinmisin
2	Ageratum conyzoiodes L.	Compositae	lmi-esu, imi-ewure
3	Albizia ferruginea (Guill. & Perr.) Benth.	Leguminosae	Ayinre ogo
4	Albizia lebbeck (L.) Benth.	Leguminosae	lgbagbo
5	Alchornea cordifolia (Schum & Thonn. Muell. Arg.	Euphorbiaceae	lpa, esinyin
6	Alstonia boonei De Wild.	Apocynaceae	Awun
7	Alstonia congensis Engl.	Apocynaceae	Awun
8	Amaranthus spinosus L.	Amaranthaceae	Tete elegun, tete dagunro
9	Anacardium occidentale L.	Anacardiaceae	Kaju
10	Anchomanes difformis Engl.	Araceae	lgo, isu igo, okuku
11	Aneilema umbrosum (Vahl) Kunth.	Commelinaceae	-
12	Anthocleista djalonenis A. Chev.	Loganiaceae	Shapo, ishapo
13	Anthocleista vogelii Planch.	Loganiaceae	Shapo
14	Aspilia africana (Pers.) C.D. Adams	Compositae	Yun-yun, yunrinyun
15	Asystasia gangetica (L.) T. Anders	Acanthaceae	Lobiri
16	Azadirachta indica A. Juss.	Meliaceae	Eke-oyibo, dongo yaro
17	Bambusa vulgaris L.	Gramineae	Oparun
18	Baphia nitida Lodd.	Leguminosae	Irosun, owiwi, igiosun
19	Bixa orellana L.	Bixaceae	Osun buke
20	Boerhaavia diffusa L.	Nyctaginaceae	Etipase-eranla
21	Bombax buonopozense P. Beauv.	Bombacaceae	Ponpola, eso
22	Borreria verticillata G.F.N. Mey.	Rubiaceae	-
23	Byrsocarpus coccineus Schum & Thonn.	Connaraceae	-
24	Calliandra portoricensis (Jacq) Benth.	Leguminosae	-
25	Calotropis procera (Ait.) Ait. F.	Asclepiadaceae	Bomubomu

Table 1. contd.

26	Canna bidentata Bertoloni	Ca
27	Capsicum frutescens L.	Sc
28	Carpolobia lutea G. Don.	Po
29	Cassia fistula L.	Le
30	Cassia obtusifolia L.	Le
31	Chassalia kolly (Schum.)Hepper	Rı
32	Chromolaena odorat (L.) King & Robinson	C
33	Cissampelos owariensis P.Beauv.	M
34	Cleome ciliata Schum & Thonn	C
35	Clerodendron umbellatum Poir	Ve
36	Cnestis furruginea DC	C
37	Cnestis Iongiflora SChellenh	C
38	Coix lacryma-iobi Linn	G
30	Cola acuminata (P Beauv) Schott & Endl	St
40	Cola millonii K. Sohum	01 C+
40	Cola millerill K. Schull	51
41	Combratum recomposum P. Becury	
42	Compretum racemosum P. Deauv.	
43	Crotalana retusa Linn.	Le
44	Cuicasia scandens P.Beauv.	Ar
45	Cymbopogon citratus (DC) Stapf.	G
46	Deinbollia pinnata Schum & Thonn.	Sa
47	Dichapetalum madagascariense Poir	Di
48	Dioclea reflexa Hook. F.	Le
49	Dombeya buettneri K. Schum.	St
50	Duranta repens Linn.	Ve
51	Elaeis guineensis Jacq.	Pa
52	Eleusine indica Gaertn.	Gi
53	Emilia coccinea (Sims) G. Don	Co
54	Eugenia jambos Linn.	M
55	Eugenia malaccensis Linn.	M
56	Euphorbia heterophylla Linn.	Ει
57	Euphorbia hirta Linn.	Ει
58	Ficus benjamina Linn.	M
59	Ficus exasprata Vahl.	M
60	Ficus mucuso Welw. ex. Ficalho	M
61	Ficus sur Forssk.	M
62	Funtumia africana (Benth.)Sapf.	Ap
63	Gossypium barbadens Linn.	M
64	Grewia carpinifolia Juss.	Ti
65	Harungana madagascariensis Lam. Ex. Poir.	Hy
66	Hedranthera bateri (Hook. F.) Pichon	Ap
67	Hippocratea velutina Afzel.	Ce
68	Icacina tricantha Oliv.	lca
69	Indigofera macrophylla Schum (Thonn.	Le
70	Ipomoea mauritiana Jacq.	Co
71	İxora coccinea Linn.	Rı
72	Jatropha curcas Linn.	Ει
73	Jatropha gossypifolia Linn.	Ει
74	Jussiae abyssinica (A. Rich.) Dandy & Bren.	O
75	Landolfia dulcis var. barteri (Sapf.) Pichon	Ar
76	Lantana camara Linn.	Ve
77	Lecaniodiscus cupanoides Planch.	Sa
78	Leptoderris micrantha Dunn.	Le
79	Luffa cvlindrica (L.) Roem	C
80	Macrosphyra longistyla Hook.	R
81	Malacantha alnifornia (Bak.) Pierre.	S

annaceae olanaceae olygalaceae guminosae guminosae ubiaceae ompositae enispermaceae apparidaceae erbenaceae onnaraceae onnaraceae ramineae erculiaceae terculiaceae erculiaceae ombretaceae guminosae raceae ramineae apindaceae chapetalaceae eguminosae erculiaceae erbenaceae almae ramineae ompositae yrtaceae yrtaceae uphorbiaceae uphorbiaceae oraceae oraceae oraceae oraceae pocynaceae alvaceae liaceae vpericaceae ocynaceae elastraceae acinaceae quminosae onvolvulaceae ubiaceae uphorbiaceae uphorbiaceae nagraceae ocynaceae erbenaceae apindaceae eguminosae ucurbitaceae ubiaceae apotaceae

Ata-jije, ata-eiye Oshun Isepe agbe Awolowo, akintola Jenjoko, jokoo-jee Akuya-ajaa, ekuya Omu-aja, akara-aja Ekayin Aje, aka-ila Obi-abata, obi-gidi Obi-edun, obi aya Obi gbanja Ogan-ibule, ogan-pupa Koropo Aginmona Oko oba, koriko oba Ogiri-egba Afere, afoforo, afee Ise, agbaarin Ewremo, ofo Idi-eyin, ope, igi ope Ese-kanna kanna Odondon-okun, odundun Egele Emi-ile, egele Eepin Oguro Opoto, opeya, abe-odan Ako-ire, ire Owu, ogodo Itakun okere Adenden Agbo-omode Gbegbe Enise-ana Tanpopo, ododo-oko Botuje, lapalapa Botuje-pupa Ogbolo-eme-en lbo Ewon-adele, ewon agogo

Ido, idoro

Aaika, aika Awo Kankan-ayaba

Ikuuku-ekun

Table 1. contd.

82	Malvastrum coromandelianum (L.)Garcke	Malvaceae	_
83	Mangifera indica Linn	Anacardiaceae	Mangoro
84	Manighera Indica Linn. Manibot diaziovii Muell Ara	Funhorbiaceae	lai-isana
85	Marinou giaziovii mueli. Arg.	Cyperaceae	Alubosa oranko
00	Miarodosmis pubarula Hook E oy Planch	Dandagaga	Foundun aringi
00	Milicio evolos (Molw) C.C. Porg	Maraaaaa	Louisun, anny
0/	Mimore pudice Linn		Determe elure neterme
00	Milliosa pudica Linn. Mavinda mavindaidae (Dalc.) Milna Dadh	Leguminosae	Palanno aluro, palanno
09	Morinda monnuoldes (Dak.) Milline-Reun.	Rublaceae	Oju-ologbo
90	Monnda lucida Benin.	Rublaceae	
91	Musanga cecropioloes R. Br.	Noraceae	Aga, agbawo
92	Mussaenda elegans Schum. & Thonn.	Rublaceae	Ado, odo omode, ori lie
93	Myriantnus arboreus P.Beauv.	Moraceae	Ibisnere
94	Napoleona Imperialis P. Beauv.	Lecythiaceae	Abobidooyoo
95	Nauclea latifolia Smith	Rubiaceae	Egbesi
96	Newbouldia laevis Seem.	Bignonaceae	Akoko, ogise
97	Olax subscorpioidea Oliv.	Olacaceae	lton, itoon
98	Oxyanthus formosus Hook. F.	Rubiaceae	-
99	Passiflora foetida Linn.	Passifloraceae	-
100	Paullinia pinnata Linn.	Sapindaceae	Kakasenla, ogbe-okuje
101	Peltophorum pterocarpum (DC) Heyne	Leguminosae	-
102	Phyllanthus amarus Schum. & Thonn.	Euphorbiaceae	Eyin-olobe, dobi-sowo
103	Physalis angulata Linn.	Solanaceae	Koropo, papo
104	Platycerum alcicorne (Willem) Oesv.	Polypodiaceae	Afomo
105	Pleioceras barteri Baill.	Apocynaceae	Abeji, ireno-kekere
106	Polyalthia longiflora	Annonaceae	-
107	Psidium guajava Linn.	Myrtaceae	Guaba, gilofa
108	Quisqualis indica Linn.	Combretaceae	Ogan funfun, ogan-igbo
109	Rauvolfia vomitora Afzel.	Apocynaceae	Asofeyeje, adapopo
110	Ricinodendron heudelottii (Baill.) Pierre.	Euphorbiaceae	Erinmadon, ogbodo
111	Rothmannia longiflora Salisb.	Rubiaceae	Kakadika
112	Rytigynia umbellulata Robyns.	Rubiaceae	Oju-eja
113	Sabicea calycina Benth.	Rubiaceae	Jire, ogan apero
114	Salacia pallescens Oliv.	Celastraceae	Elewekan
115	Scoparia dulcis Linn.	Scophulariaceae	Naruntantan
116	Securinega virosa (Roxb.) Baill.	Euphorbiaceae	Awewe, iranje
117	Sida acuta Burm. F.	Malvaceae	Esoketu
118	Smilax kraussiana Meisn.	Smilacaceae	Eha, ekanamagbo
119	Solanum torvum Swatz	Solanaceae	lgba-yanrin-elegun-un
120	Sphenocentrum jollyanum Pierre	Menispermaceae	Akerejupon, ajo
121	Stachytarpheta cayennensis (DC. Rich.) Schau.	Verbenaceae	Agogo igun, akitipa
122	Stachytarpheta indica (L.) Vahl	Verbenaceae	Ogan akuko, ogangan
123	Stachytarpheta mutabilis Jacq. Vahl.	Verbenaceae	Iru alangba
124	Synsepalum dulciferum (Schum & Thonn.) Daniell	Sapotaceae	Agbayun
125	Talinum triangulare (Jacq.) Willd.	Portulaceae	Gure, gbure
126	Terminalia randii Bak. F.	Combretaceae	-
127	Thaumatococcusdaniellii (Benn.) Benth.	Marantaceae	Eeran, katemfe
128	Trema orientalis (L.) Bl.	Ulmaceae	Afe, ofefe, ofoforo
129	Triclisia subcordata Oliv.	Menispermaceae	Alugbirin, alugbonran
130	Tridax procumbens Linn.	Compositae	Sabaruma, adeobile
131	Triplochiton sclerexylon K. Schum.	Sterculiaceae	Obeche, aifo. arere
132	Tristemna incompletum R.Br.	Melastomaceae	-
133	Triumphetta cordifolia A. Rich.	Tiliaceae	Itogbin, esua
134	Triumphetta rhomboidea Jaco.	Tiliaceae	Akeeri
135	Urena lobata Linn.	Malvaceae	Ilasa-ovinbo. ilasa-omode
136	Vernonia amvodalina Del	Compositae	Ewuro, ewuro oko
137	Voacanga Africana Stapf.	Apocynaceae	Sherenkpen, ako dodo
138	Waltheria indica Linn.	Sterculiaceae	Epa esure, ewe epo

ljebu-Ode/ Ibadan road. The tropical rain forest to which the vegetation of the campus belongs constitutes an evergreen plant community rich in trees, shrubs and herbs. The climate is characterized by high temperature and a bimodal rainfall pattern. The annual rainfall ranges from 1250 to 2190 mm beginning from mid-March to mid-November, with the peak in July and September. The mean annual minimum and maximum temperatures are about 20 °C and 30 °C respectively, while relative humidity is approximately 60% in the dry season and 90% in the rainy season.

The present study aims at the conservation of the indigenous angiosperm genetic variability of the Olabisi Onabanjo University permanent site.

MATERIALS AND METHODS

The survey involved several visits to the site for collection of samples. Specimens were collected across the undisturbed and disturbed vegetation of the campus. Samples were dried, poisoned and mounted in accordance with conventional herbarium practice. Solvents used in poisoning include methylated spirit, Para dichlorobenzene (PCDB), 2% mercuric chloride, cyanide gas and naphthalene (Okoli et al., 1992). Identification of the specimens was done by experts by comparison with herbarium specimens in Elikaf herbarium of the Olabisi Onabanjo University (not listed in Holmgren and Keuken, 1998), the Forest Herbarium, Ibadan (FHI) and the University of Ibadan herbarium (UIH). Specimens collected were deposited at the Elikaf herbarium.

RESULTS

One hundred and thirty-eight (138) plant species (Table 1) belonging to fifty-five families were identified as constituting the major part of the vegetation of the site. The Leguminosae has the largest number of species (thirteen) followed by Rubiaceae (eleven) and Euphorbiaceae having nine species (Table 2). The preponderance of the occurrence of species of the Euphorbiaceae and in particular Rubiaceae could be due to the climatic condition, soil type and the seed dispersal mechanism of the members of the family. Fifty-four tree species (Table 3, Figure 2) were collected on the whole showing the dominant role played by trees in the vegetation of the site. Most of the plants collected have simple leaves this is an indication of primitiveness as simple leaves are believed to have evolved earlier than the compound leaves (Radford et al., 1974). Also the solitary inflorescence was observed in many cases. More than 85% of the ecosystem is constituted by the dicotyledons (Figure 3). Plants like Chromolaena odorata (L.) King and Robinson and Aspilia africana (Pers.) C.D. Adams were found in almost all areas of the site. This supports the fact that weeds are notorious and inevitable in all vegetation types. Musanga cecropioides R. Br. provides shade and comfort in guite a number of portions in the site.

Table 2. Species distribution according to families.

Family	Number of species
Acanthaceae	1
Amaranthaceae	1
Anacardiaceae	2
Annonaceae Apocynaceae Araceae	8 2
Asclepidaceae	1
Bignoniaceae	1
Bixaceae	1
Bombacaceae	1
Cannaceae	1
Capparidaceae	1
Celastraceae	2
Combretaceae	3
Commelinaceae	1
Compositae	6
Connaraceae	3
Convolvulaceae	1
Cucurbitaceae	1
Cyperceae	1
Dichapetalaceae	1
Euphorbiaceae	9
Gramineae	4
Hypercaceae	1
Icacinaceae	1
Lecythidaceae	1
Leguminosae	13
Longaniaceae	2
Malvaceae	4
Maranthaceae	1
Ulmaceae	1
Melastomaceae	1
Meliaceae	1
Menispermaceae	3
Moraceae	7
Myrtaceae	3
Nyctaginaceae	1
Olacaceae	1
Onagraceae	1
Palmaceae	1
Pandaceae	1
Passifloraceae	1
Polygalaceae	1

Table 2. contd.

1
I
11
3
2
1
1
3
6
3
7

Table 3. Habit of species.

Botanical name	Habit
Abrus precatorius	Twining herb
Ageratum conyzoiodes Albizia ferruginea	Hispid herb Tree
Albizia lebbeck	Tree
Alchornea cordifolia	Shrub/smalltree
Alstonia boonei Alstonia congensis Amaranthus spinosus Anacardium occidentale Anchomanes difformis Aneilma umbrosum Anthocleista djalonenis Anthocleista vogelii Aspilia africana	Tree Tree Herb Tree Herb Straggling herb Tree Tree Herb
Asystasia gangetica	Herb
Azadirachta indica	Shrub/smalltree
Bambusa vulgaris Baphia nitida Bixa orellana Boerhaavia diffusa	Shrub Shrub Small tree Herb
Bombax buonopozense Borreria verticillata Byrsocarpus coccineus Calliandra portoricensis Calotropis procera Canna bidentata Capsicum frutescens	Tree Herb Climber / shrub Shrub Small tree Herb Under shrub
Carpolobia lutea	Shrub

Table 3. contd.

Cassia fistula Cassia obtusifolia	Small tree
Chassalia kolly	Shrub
Chromolaena odorata	Shrub
Cissampelos owariensis	Climber
Cleome ciliata	Herb
Clerodendronumbellatum	Shrub
Cnestis furruginea	Climber
Cnestis longiflora	Climber
Coix lacryma-jobi	Grass
	_
Cola millenii Cola nitida	Tree
Combretum racemosum	Shrub
Crotalaria retusa	Herb
Cuicasia scandens	Grass
Deinbollia pinnata	Small tree
Dichapetalum	Shrub/tree
madagascariense	
Dioclea reflexa	Climber
Dombeya buettneri	Shrub/smalltree
Duranta repens	Shrub
Elacis guineensis	Grass
Emilia coccinea	Herb
Eugenia jambos	Small tree
Eugenia malaccensis	Tree
Euphorbia heterophylla	Herb
Euphorbia hirta	Herb
Ficus benjamina	Tree
Ficus exasprata	Tree
Ficus mucuso	I ree
Funtumia africana	
Gossypium barbadens	Shrub
Grewia carpinifolia	Shrub
Harungana	Tree
madagascariensis	
Hedranthera bateri	Shrub
Hippocratea velutina	Shrub
Icacina tricantha	Shrub
molgorera macrophylla	
Ipomea mauritiana	Climber (liane)
Ixora coccinea	Shrub
Jatropha curcas	Shirud

Table 3. contd.

Jatropha gossypifolia Jussiae abyssinica	Shrub Herb
Landolfia dulcis var. barteri Lantana camara	Climber Woody herb
Lecaniodiscus cupanoides	Shrub
Leptoderris micrantha	Shrub
Luffa cylindrica Macrosphyra longistyla Malacantha alnifornia Malvestrum coromandelianum Manaifara indiaa	Climber Shrub Tree Woody herb
	Shrub
Marinou glaziovii	Sodao
Miarodosmis puborula	Seuge
Milicia evolsa	
Mimosa pudica	Shrub
Morinda lucida	Tree
Morinda morindoides	Shrub
Musanga cecropioides	Tree
Mussaenda elegans	Shrub
Myrianthus arboreus	Tree
Napoleona imperialis Nauclea latifolia Newbouldia laevis	Small tree Small tree Tree
Olax subscorpioidea	Small tree
Oxyanthus formusus	Tree
Passiflora foetida	Twining herb
Paullinia pinnata	Woody climber
Peltophorum pterocarpum	Tree
Phllanthus amarus	Herb
Physalis angulata	Annual herb
Platycerum alcicorne	Fern allies
Pleioceras barteri Polyalthia longiflora Psidium guajava	Shrub Tree Small tree
Quisqualis indica Rauvolfia vomitora Ricinodendron heudelottii	Shrub Small tree Tree

Table 3. contd.

Rothmannia longiflora	Small tree
Rytigynia umbellulata	Shrub
Sabicea calycina	Shrub
Salacia pallescens	Shrub
Scoparia dulcis	Shrub
Securinega virosa Sida acuta	Shrub Shrub
Smilax kraussiana	Shrub
Solanum torvum Sphenocentrum jollyanum Stachytarpheta cayennensis	Shrub Shrub Shrub
Stachytarpheta indica Stachytarpheta mutabilis	Herb herb
Synsepalum dulciferum Talinum triangulare Terminalia randii	Small tree Herb Tree
Thaumatococcus daniellii	Herb
Trema orientalis Triclisia subcordata	Small tree Woody climber
Tridax procumbens	Low herb
Triplochiton sclerexylon	Tree
Tristemna incompletum	Shrub
Triumphetta cordifolia	Shrub
Triumphetta rhomboidea	Shrub
Urena lobata	Woody shrub
Vernonia amygdalina Voacanga Africana Waltheria indica	Small tree Tree Herb

DISCUSSION

The disappearance of many plant species due to human activities is depleting the world's genetic resources and is putting man's heritage of biodiversity under serious threat. There is therefore the urgent need to preserve genetic diversity including plant resources of known and unknown economic importance which will guarantee the availability of all potentials for use in the benefit of our children and grandchildren (Olowokudejo,



Figure 2. Chart showing the percentage distribution of plants in relation to their habit.



Figure 3. Chart showing the distribution of plant species in relation to their major plant groups

1987). The human race in their quest for economic development and improvement of their conditions of life must come to terms with the realities of resource limitations and the carrying capacity of ecosystem must also take account of the needs of future generation. This

is the central message to modern conservation. Biological diversity must be treated seriously as a global resource, be indexed, used and above all preserved. Three circumstances make it imperative for this to be given an unprecedented urgency particularly in West Africa. Firstly, exploding human populations are seriously degrading the environment at an alarming rate in the sub region. Secondly, science is discovering new uses for biological diversity in ways that relieve both human suffering and environmental destruction. Thirdly, much of the diversity is being irreversibly lost through extinction caused by the destruction of natural habitats, which occurs more in Africa than elsewhere (Wilson, 1988). Dasmana et al., (1973) agreed that forest exploitation leads to the extinction of animals and plants whose genetic resources are of considerable value to future generations (Round Table, 1969). Forest depletion has destabilized the natural environment and eroded genetic resources throughout the southern part of Nigeria in order to meet the sustenance of the population and financial requirements of government i.e. the social, economic, demographic and political needs of the people. Exploitation of forests therefore appears to be inevitable considering the above. Opinions are however split about vegetation depletion which is considered as a loss of natural heritage. According to some scientists (Harvey and Hallet, 1977) it may not be beneficial to conserve resources for future generation at all costs because the future demands, aspirations, lifestyles and needs of rural people cannot be adequately defined now. Must we then wait for the needs to be defined before we conserve? Definitely not because all of these genetic resources would have disappeared before the needs are identified. As such, conservation is basic to human welfare and indeed to human survival (Allen, 1980). Lack of conservation measures will amount to an increase in the number of endangered species and this will ultimately result in extinction, which is the gradual but sure elimination of taxa (Allaby, 1998). Many of the species that are already endangered are faced with the risk of eventual extinction if human activities such as land development, logging and pollution are not checked.

Gbile et al. (1981, 1984) revealed that about four hundred and eighty plant species of the Nigerian flora have been described as endangered or rare, out of which many of these are being studied at the Forestry Research Institute of Nigeria, Ibadan. Apart from the gradual loss of biodiversity, the devastating environmental disasters in urban and rural areas of Nigeria indicate that these environments are under stress and require urgent intervention (Oguntala, 1993).

Exploitation of forest around the permanent site of the University continues unabated. Encroachment on University land stopped since 1982 allowing for the vegetation to revert to climatic climax status. The forest of the University at present serves as a refuge for both plants and animals especially birds and games escaping from local hunters. While developmental activities continue on the campus it will be a sound scientific judgment to protect a representative sample of vegetation for posterity. This is the practice in most developed countries of the world. The International Institute for Tropical Agriculture (IITA) at Ibadan, Nigeria has such an area which now serves as an example of a typical tropical Rain forest in south Western Nigeria.

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