Published for
The African Wildlife Foundation's
FOUR CORNERS TBNRM PROJECT
by
THE ZAMBEZI SOCIETY and
THE BIODIVERSITY FOUNDATION FOR AFRICA
2004

The Zambezi Society
P O Box HG774
Highlands
Harare
Zimbabwe
Tel: +263 4 747002-5
E-mail: zambezi@mweb.co.zw
Website : www.zamsoc.org

The Biodiversity Foundation for Africa
P O Box FM730
Famona
Bulawayo
Zimbabwe
E-mail: bfa@gatorzw.com
Website: www.biodiversityfoundation.org

The Zambezi Society and The Biodiversity Foundation for Africa are working as partners within the African Wildlife Foundation's Four Corners TBNRM project. The Biodiversity Foundation for Africa is responsible for acquiring technical information on the biodiversity of the project area. The Zambezi Society will be interpreting this information into user-friendly formats for stakeholders in the Four Corners area, and then disseminating it to these stakeholders.

THE BIODIVERSITY FOUNDATION FOR AFRICA (BFA is a non-profit making Trust, formed in Bulawayo in 1992 by a group of concerned scientists and environmentalists. Individual BFA members have expertise in biological groups including plants, vegetation, mammals, birds, reptiles, fish, insects, aquatic invertebrates and ecosystems. The major objective of the BFA is to undertake biological research into the biodiversity of sub-Saharan Africa, and to make the resulting information more accessible. Towards this end it provides technical, ecological and biosystematic expertise.

THE ZAMBEZI SOCIETY was established in 1982. Its goals include the conservation of biological diversity and wilderness in the Zambezi Basin through the application of sustainable, scientifically sound natural resource management strategies. Through its skills and experience in advocacy and information dissemination, it interprets biodiversity information collected by specialists like the Biodiversity Foundation for Africa and uses it to provide a technically sound basis for the implementation of conservation projects within the Zambezi Basin.

THE PARTNERSHIP between these two agencies was formed in 1996 as a result of mutual recognition of their complementarity. They have previously worked together on several major projects, including the biodiversity component of IUCN's Zambezi Basin Wetland project and the evaluation of biodiversity in Tete province described in detail in the first Four Corners TBNRM Biodiversity Information Package.

ISBN 0-7974-2835-6

RECOMMENDED CITATION:
Timberlake, J.R. & Childes, S.L. 2004. *Biodiversity of the Four Corners Area: Technical Reviews Volume Two* (Chapters 5-15).
Occasional Publications in Biodiversity No 15,
Biodiversity Foundation for Africa, Bulawayo/Zambezi Society, Harare, Zimbabwe.

ACKNOWLEDGEMENTS

In addition to all the authors of the chapters in this document,
The Zambezi Society and the Biodiversity Foundation for Africa
wish to thank the following for peer review or additional assistance:-

John Burrows
Colin Craig
Barbara Curtis
Cornell Dudley
Kevin Dunham
Peter Frost
Debbie Gibson
Mike Griffin
Michael Irwin
Bas Jongeling
Linley Lister
Gillian Maggs
Anthony Mapaura
Brian Marshall
Susan Ringrose

We also wish to thank Henry Mwima, Nesbert Samu,
Othusitse Lekoko, Daudi Sumba, Gitonga Kathurima,
Maureen Mashingaidze and Simon Metcalfe
of the African Wildlife Foundation

CHAPTER 5. PLANTS OF THE FOUR CORNERS AREA

CONTENTS

FIGURES

TABLES

APPENDICES

CHAPTER 5. PLANTS OF THE FOUR CORNERS AREA

Jonathan Timberlake

Baikiaea Plurijuga, Zambezi Teak

CHAPTER 5. PLANTS OF THE FOUR CORNERS AREA

Jonathan Timberlake

5.1 INTRODUCTION

The Four Corners area is centred around the point where a number of major southward-draining rivers joined in the past, forming the palaeo-Zambezi river (see Moore, Chapter 2). Much of the drainage from a vast swathe of the plateau passed through here around 0.5-1 million years ago, forming a number of large lakes now only discernable by the presence of extensive calcareous lacustrine deposits. Virtually the whole area is covered in a mantle of wind-blown Kalahari sand of varying depth. There is only a limited extent of outcropping bedrock - principally basalt and Karoo sandstone in the Matetsi-Victoria Falls area.

This combination of mostly fine to medium-textured sandy soil, environmental instability over the last million or so years, and the presence of a network of wetlands and pans, is reflected in both the vegetation and plant species composition.

This review covers what we know about vascular plant species (excluding mosses and algae) within the area. It is complementary to the review on vegetation (Childes, Chapter 4), and does not specifically cover habitats or vegetation surveys. Following an outline of the phytogeography of the area and early botanical exploration, a more detailed account is given of our knowledge on the plants of each portion. This knowledge is assessed and gaps identified. A species list compiled from various sources is given. Endemic and threatened plant taxa are discussed, and species and sites of particular conservation interest identified. Finally, some important parameters for monitoring are described and the outline of a monitoring programme proposed.

5.2 PHYTOGEOGRAPHY

In his overview of the vegetation and plant geography of Africa, Frank White (1983) defined a number of phytogeographical regions or phytochoria, in addition to the more commonly used physiographically-defined vegetation types. Phytochoria are based on richness (or otherwise) of their endemic floras at the species level; the classification is flexible and not hierarchical. There are four fundamentally different types of phytochorion (White 1983, p.42), including Regional Centres of Endemism and Regional Transitions and Mosaics. The former are defined as areas with more than 50% of their species confined to them and a total of more than 1000 endemic species. The Four Corners area falls clearly within the Zambezian Regional Centre of Endemism. However, the area also lies close to the Kalahari-Highveld Regional Transition Zone. On the ground it is possible to pick up the Kalahari elements coming in, particularly where rainfall is lower and the sands less acid (or more calcareous).

In an earlier study, White (1965) recognised three smaller centres of endemism (a different, more limited use of the name than he later used) within the Zambezian Domain (now the Zambezian Regional Centre of Endemism), including a Barotse centre identified on the basis of plant species confined to the basin of the Upper Zambezi in Barotseland. Eleven species were listed as typical (White 1965), but it is doubtful if all would be retained now, whilst others could be added (e.g. *Acacia hebeclada* subsp. *chobiensis*). Most of these species also come south into northern Botswana, northern Namibia and northwestern Zimbabwe, which represents their southernmost limit of distribution on the continent (e.g. *Dialium englerianum*, *Baikiaea plurijuga*).

The only other major study of the flora of the region is that by Werger and Coetzee (1978), who describe in great detail the vegetation and phytogeography of the Zambezian region. The Barotse centre of White is characterised by Kalahari sands under an annual precipitation of 500-1000 mm strongly concentrated between the months of November and April, and is broadly similar to the Cubango phytogeographical region identified by Monteiro (1970) in Angola. They also point out that there is a fairly clear separation of miombo (*Brachystegia*-dominated woodland) from thorn savannas and woodlands on richer and heavier soil types. Often these two types form a complicated mosaic, but the typical floristic composition and species of one are never important in the other. Central Botswana, at the southern margins of the Four Corners area, is transitional and shows an overlap of the Zambezian and Karoo-Namib floras. There is a floristic similarity between the central and southern Kalahari (Bremekamp 1935), but the northern Kalahari tree/shrub layer is Zambezian while the herbaceous layer tends to be transitional Karoo-Namib.

Owing to its position near the margins of the Zambezian Regional Centre of Endemism, and where the Zambezi and a number of other rivers met in the recent past, the Four Corners area is something of a botanical meeting place where miombo, mopane, *Baikiaea* and drier woodland, Kalahari *Acacia* savanna, grassland and wetland vegetation types all meet. Hence plant species diversity is higher than the relatively low rainfall would suggest, and there is greater mix of species than would be expected.

5.3 EXISTING KNOWLEDGE ON PLANT SPECIES AND DISTRIBUTION

The Four Corners study area straddles five countries. Owing to its position in the interior of the continent scientific botanical exploration has primarily followed trading history and trading routes. Livingstone and Baines travelled the area in the 1850-60s, and there was a well-worn route along what is now the Botswana-Zimbabwe border through Pandamatenga to Livingstone/Victoria Falls in the 1880s. Given the presence of tsetse fly and lack of water to the west and in the Hwange area, exploration further afield was limited.

In the first half of the 20th century not much attention was paid to the Four Corners area, and little development took place. The railway line from Bulawayo to Livingstone runs along the eastern edge of the region, forming the major transport route, and indigenous Zambezi teak (*Baikiaea plurijuga*) forest and woodland was heavily exploited in what is now northwest Zimbabwe and southwest Zambia. Botanical accounts from this period include a description and assessment of the forests in northern Botswana (Miller 1939) and southwestern Zambia (Martin 1940). Early plant collecting trips with species lists include those by Lugard and Brown (1909) from Ngamiland and the northern part of the Kalahari in Botswana, Bremekamp and Obermeyer (1935) from the central Kalahari, Curson (1932) from Ngamiland and Chobe in Northern Botswana, Pole-Evans (1938) from Ngamiland, and Curson (1947) in the Eastern Caprivi. Trapnell carried out an extensive survey of traditional agricultural practices and soils in what was then Northern Rhodesia, including part of the study area (Trapnell & Clothier 1937, Trapnell & Clothier 1996).

The Victoria Falls area has perhaps been the major early botanical focal point. Botanists have been making records of the flora of the area for over 100 years (Fanshawe 1975). The first was Sir John Kirk, who accompanied Livingstone on his second expedition to the Falls in 1860. Thomas Baines, a painter and plant collector, was also on this expedition. In 1875 Frank Oates visited, but systematic collecting only really commenced in 1904 with Fred Eyles and Allen with the coming of the railway. Soon after, the German botanist Engler visited and wrote a short botanical account of the vegetation, followed by Burtt Davy from South Africa in 1905, Miss Gibbs in 1906 (see Gibbs 1906) and the Swede R.C.E. Fries in 1912. Perhaps the most active

collector from that period was Archdeacon Rogers in 1910. John Hutchinson from Kew, in 1930, was the next botanist of note, and he also wrote a short account of the area (Hutchinson 1946). Wild (1952, 1964) gives an account of the flora of the Falls area, but it has not been possible to locate a copy of this. Fanshawe (1972) lists 912 species from the Victoria Falls area, and later gave a more detailed and popular account of the flora, including areas of interest in the gorge and in the main river (Fanshawe 1975).

After the Second World War there was much more activity and interest in the economic potential of natural resources of what is now the Four Corners area, including plants. Areas of forestry potential were evaluated in Botswana (Henry 1966) and Zimbabwe (e.g. Orpen 1954, Keeling 1963, Gwyther 1957, Gardiner 1970, see also Timberlake & Nobanda 1993, Timberlake 1999). From the 1960s, most botanical studies were done as part of forestry or wildlife (vegetation/habitat) surveys, which are described more fully in the review on vegetation (Childes, Chapter 4). However, a number of these surveys incorporated plant species lists and observations on plant species distribution, for example those of Tinley (1973), Child (1968) and Henry (1966). It is these that are primarily reviewed here. By far the most comprehensive plant studies were those carried out by Fanshawe under the Zambia Forest Department on a district-by-district basis (Fanshawe 1968, 1969a, 1972), culminating in his vegetation account of Zambia (Fanshawe 1969b) and a national vegetation map (Edmonds 1976).

5.3.1 Angola

Very little appears to be known of Cuando-Cubango, the part of Angola falling within the Four Corners study area, owing to its inaccessibility, low density of settlement and, most particularly, to insecurity over the last 30 years. Before that, it was an area designated either as Forest Reserve or used for wildlife conservation or hunting. The far southeast corner is gazetted as the Luiana Strict Nature Reserve (Huntley & Matos 1994). Publications from Angola are hard to find, and the account below reflects this.

The vegetation map of Angola (Barbosa 1970) shows that the main species in the area are *Baikiaea plurijuga*, *Guibourtia coleosperma*, *Schinziophyton rautanenii*, *Burkea africana* and *Pterocarpus angolensis*, with patches of the shrub *Brachystegia bakeriana* and similar "mutemwa" species. *Schinziophyton* is more common closer to the Cuando (Kwando) river, and has been investigated for possible exploitation (Coelho 1966). There is an interesting patch of mopane along the lower reaches of the Cuando River, and upstream "chanas" or poorly-drained grasslands on Kalahari sand are found. The latter are dominated by *Loudetia simplex*, with suffrutices such as *Landolphia parvifolia, Parinari capensis*, *Syzygium* and *Magnistipula* (see White 1976, Huntley & Matos 1994). Teixeira (1960) has published an account of the flora, but this has not been seen.

5.3.2 Botswana

The earliest plant study from what is now Botswana appears to be the plant collecting trip by Lugard (Lugard & Brown 1909) which resulted in the descriptions of a number of new species from the Kalahari area. This was followed up much later by a trip to Ngamiland by Curson (1932), an expedition from South Africa to the central Kalahari (Bremekamp & Obermeyer 1935) and another through eastern Botswana and Ngamiland (Pole-Evans 1938).

After the Second World War, particularly in the 1960s and 70s, botanical studies expanded to include wildlife and vegetation surveys. Studies of this type include that by Williamson (1974) on the Okavango delta and surrounds, Tinley (1973) on the Moremi Game Reserve, Simpson (1975) on the Chobe waterfront, and Heemstra (1976) on the Okavango swamps, while purely botanical surveys include Seagrief and Drummond (1958) from the northeastern Makgadikgadi

pans and Allen (1978) from the Orapa area at the south end of the pans.

The Okavango swamps have been the focus of much attention since the early 1970s (Botswana Society 1976) and much of the major botanical work there has been done by Pete Smith (e.g. Smith 1976, 1984, 1991). Wetland plant species composition, both of the Okavango and Linyanti/Chobe swamps, has been summarised in Smith (2000) and by Timberlake *et al*. (2000).

The total number of plant taxa listed here (Appendix 5.1) for Botswana is 1422 with 1046 recorded from the Okavango and only 215 taxa from the Makgadikgadi pans. The low number in the latter area is solely a result of limited collection and documentation.

5.3.3 Caprivi Strip (Namibia)

The earliest work on the flora of the Caprivi appears to be that by Curson (1947), who provided a brief description of the vegetation of the Eastern Caprivi and a list of 218 plant taxa. However, the earliest plant collector in the Caprivi was Emil Holub (1874-76 and 1885-87) but he did not publish his findings (J.E. Burrows, pers. comm.). Giess (1971) in his vegetation map of Namibia omits the Caprivi Strip, hence the first vegetation survey is that by Hines (1997), in which only the major woody and grass species are mentioned. In 1966, Tinley carried out an investigation of the vegetation of the Western Caprivi (Tinley 1966), but it has not been possible so far to locate a copy of this publication.

With Independence in 1990 and the return to civilian rule in the Caprivi, the Namibian authorities focused attention on the area, not least because of its high human population, water resources and tourism/wildlife potential. To the west, the Kavango River wetlands have been described by Bethune (1991). As the majority of this study refers to the Kavango valley, outside of the Four Corners area, the plant list has not been incorporated in the checklist presented here. Around the same time, a detailed assessment of the natural resources of the West Caprivi (between the Kavango and Kwando rivers) was carried out (Brown & Jones 1994), including a list of 386 plant species. Further to the east, a study of biodiversity in the eastern Caprivi was done by Schlettwein *et al*. (1991), including a list of 90 wetland species. One of the major concerns here is the invasion of aquatic weeds, *Pistia stratiotes* and especially *Salvinia molesta* (Edwards 1972, Koch & Schlettwein 1983).

The total number of taxa listed for the Caprivi Strip is 635, the majority from the eastern part where most attention has been given. However, it is likely that given its greater habitat diversity and rainfall it is indeed richer than the western Caprivi.

5.3.4 Zambia

Although plant collecting in the Zambian portion of the Four Corners area has taken place over a long period, there are surprisingly few botanical publications. These plant specimens, kept in herbaria at Mt. Makulu, Kitwe, Harare, Kew and elsewhere, have not been systematically documented and records are not readily extractable. Fanshawe produced a series of typescript reports on the vegetation of some of the districts within the study area (Sesheke 1968, Senanga 1969, Kafue National Park 1970, Victoria Falls 1972), and also an overview of Zambia's vegetation (Fanshawe 1969b) placing the district reports in a national context. These reports contain extensive plant lists by vegetation type, and have been incorporated in the main checklist (Appendix 5.1). A number of botanical studies have been done of the Barotse floodplains, the Kafue Flats and the Kafue National Park, but only the latter falls within the present study area. The Kafue National Park appears to be the best-recorded area with plant checklists published by Mitchell (1963) and Hanks (1969) as well as the later one by Fanshawe (1970).

The total number of plant taxa recorded from the Kafue National Park is 1188, and the total number of taxa from the Zambian portion of the Four Corners as a whole is 1662, of which 289 taxa are recorded from the Park only.

5.3.5 Zimbabwe

Much of the botanical work in this part of Zimbabwe has been related either to the management of the indigenous *Baikiaea* forests/woodlands on Kalahari sands or to research within the National Parks estate, especially Hwange National Park. Apart from those botanists mentioned as having visited Victoria Falls in the early part of the last century, two foresters - A.A. Pardy and F.B. Armitage - collected many specimens of woody plants from the area in the first part of the 20th century.

After World War II, surveys of the forest estate were intensified, and the woody flora of the Kalahari sands was comparatively well documented (e.g. Calvert 1986, Judge 1975; see Timberlake 1994). However, our knowledge of plants other than the economic woody species and grazing grasses, is still not good. Very few checklists have been prepared, notably Rushworth (1978) of Hwange National Park and lists of woody plants from some forest areas (Timberlake, unpublished). Most of what we know on these other species, and on the general ecology of Kalahari sands vegetation, has come from ecological studies carried out in Hwange National Park (Childes 1989, Childes & Walker 1987, Rushworth 1975).The communal lands vegetation survey (Timberlake, Nobanda & Mapaure 1993) covered a small part of the Four Corners area in Zimbabwe, but focused on the more common woody species, not on herbs and grasses.

The list of species for the portion of Zimbabwe within the Four Corners area is relatively complete as it derives from the comprehensive collection of specimens in the National Herbarium, Harare, as well as collections from Hwange National Park. Total number of taxa is 1334. Some of the most restricted are found along the upper reaches of the Zambezi river and associated with pans.

5.4 PLANT CHECKLIST

5.4.1 Compilation

A checklist of vascular plants recorded from the Four Corners area was compiled from existing lists and records, and is presented as Appendix 5.1. All sources used in the compilation are listed in Table 5.1 by country. It was not possible, given time constraints, to check all records in Flora Zambesiaca (current editor, G.V. Pope). Major sources were the list of wetland plants from the Okavango and Chobe/Caprivi areas (Timberlake *et al*. 2000), the database lists for the area from the National Herbarium in Harare (SRGH) and National Herbarium in Windhoek (WIND), and the various lists for southwestern Zambia compiled by Fanshawe (1968, 1969, 1970, 1972).

All recorded species and subspecific taxa were listed, and nomenclature was checked against the recent Zimbabwe checklist (A. Mapaura, in press), the unpublished Zambian checklist (M.G. Bingham 2002) and the enumeration of the Tropical African Flora (Lebrun & Stork 1991-1997). However, it is likely there are still a few old names included in the list that are now thought to be synonyms or misidentifications, although this is unlikely to affect overall figures significantly. Care needs to be taken with any compiled checklist: species are not confirmed and some may have been incorrectly identified, and nomenclature can be archaic and not easily updated. The best checklists are those based on specimens, but this is not feasible with the present area where at least four different herbaria are involved. The present checklist may well contain names of

Table 5.1. Sources used for plant checklist of Four Corners area.

Area	**Reference**
Botswana	
National herbarium collection	Barnes & Turton 1994
Okavango swamps	Biggs 1976
Northern state lands	Blair Rains & McKay 1968
Chobe forest	Henry 1978
Makgadikgadi pans	Seagrief & Drummond 1958
Chobe waterfront	Simpson 1975
Okavango swamps	Smith 1976
Okavango & Chobe	Smith 1984, 2000
Chobe NP	Sommerlatte 1976
Acacias	Timberlake 1980
Okavango & Chobe wetlands	Timberlake *et al*. 2000
Moremi	Tinley 1973
Namibia	
W Caprivi	Brown & Jones 1994
E Caprivi	Curson 1947
E Caprivi	Schlettwein *et al.* 1991
E Caprivi wetlands	Timberlake *et al*. 2000
Caprivi	National Herbarium database 2003
Zambia	
Masese (grasses)	Bingham 1992
Sesheke	Fanshawe 1968
Senanga	Fanshawe 1969
Kafue NP	Fanshawe 1970
Victoria Falls	Fanshawe 1972
Kafue NP	Hanks 1969
Kafue NP	Mitchell 1963
Zimbabwe	
Batoka gorge	Mapaure 1998
Hwange NP	Rogers 1993
Hwange NP	Rushworth 1978
NW Zimbabwe	National Herbarium database 2003
Acacias	Timberlake, Fagg & Barnes 1999
Tsholotsho & Hwange communal land	Timberlake, Nobanda & Mapaure 1993

species that do not actually occur in the area, but likewise there are likely to be a number of species found there that are not listed.

The study area was subdivided into eight regions (Table 5.2), and the species recorded as occurring in each are indicated on the checklist. These data must be regarded as preliminary as they probably reflect more the number and detail of published lists rather than actual differences in composition. The subdivisions were chosen on the basis of political or administrative boundaries, major ecological features (i.e. Okavango swamps, Makgadikgadi pans), as well as on the coverage of available checklists.

Table 5.2. Subdivisions of the Four Corners area for the plant checklist.

AREA SUBDIVISIONS	
Okavango swamps	OKA
Northern Botswana	NBOT
Makgadikgadi Pans	MAK
Caprivi Strip	CAP
SW Angola	ANG
SW Zambia	SWZM
Kafue National Park	KNP
NW Zimbabwe	NWZW

5.4.2 Distribution and Ecology

The total number of plant taxa recorded from the Four Corners area is 2645 (including subspecies), which compares favourably to the total number of taxa found across the whole of Zimbabwe (5936 taxa) or the incomplete list from Zambia (5233 taxa). The full list is given as Appendix 5.1.

The Kafue National Park, in ecological terms, falls outside the Four Corners area. This can be seen from the 289 plant taxa found there but not elsewhere in the study area, about 11% of the total number recorded and 17% of those recorded from the whole Zambian portion. Most are species more typical of moist miombo woodland, such as *Monotes* species, or are Guineo-Congolian savanna/forest transition elements such as *Parinari excelsa* and *Dialium angolense*. Excluding these species the total for the Four Corners area is 2356, about 40% of the total Zimbabwe flora, an indication of its diversity and richness.

However, the checklist is not a particularly good indicator of comparative species diversity owing to the limited nature of most studies. The Kafue National Park has been well covered, as has the Okavango, but most other lists have emphasised woody plants over herbaceous species and grasses, although they generally form the lesser part of a flora. A conservative estimate of

the total flora for the Four Corners area, excluding the Kafue National Park with its more "tropical" flora, is around 2600. The higher number is because grasses and smaller herbs have been insufficiently recorded.

As was stated by Timberlake *et al*. (2000), the Okavango swamps appear to be more diverse in terms of wetland species than the wetlands of the Chobe and Eastern Caprivi. Generally floodplains and grasslands are more diverse and contain a higher proportion of species of restricted distribution than swamps.

On preliminary analysis the *Baikiaea* and *Brachystegia* woodlands on Kalahari sands in northwestern Zimbabwe and southern Zambia are more species-rich than the *Colophospermum* (mopane) and *Acacia* woodlands of loamy and shallow soils in the drier southern or western parts, or than the *Acacia* or *Burkea* woodlands on Kalahari sands. This is probably a result both of lower moisture availability and of reduced habitat diversity. It is the interplay of woodland and grassland, the latter found in seasonally poorly drained valleys or dambos, as well as the presence of distinct pans with their different soils, that creates this diversity.

5.5 ENDEMIC AND THREATENED SPECIES

5.5.1 Endemic Species

The Four Corners area is a meeting place of the Zambezian and Kalahari floras and a transition zone for both flora and vegetation; it is not an area of endemism. It is also heavily dissected by wetlands and floodplains which act as dispersal corridors and encourage a wide distribution of species. As the area has also been environmentally unstable for the last million or so years, it is unlikely to support many species that are only found in that area. However, despite this 11 taxa (listed in Table 5.3) appear to be confined to the broadly-defined Four Corners area. It has not been possible to obtain full details of distribution and habitat, but four of them are confined to the rocky gorges below Victoria Falls (*Aristida brainii*, *Danthoniopsis petiolata*, *Euphorbia fortissima*, *Jamesbrittenia zambeziaca*), one to the Makgadikgadi pans (*Panicum coloratum* var. *makarikariense*), one to the riparian fringes of major rivers in the area (*Acacia hebeclada* subsp. *chobiense*), and four to the Kalahari sand woodlands of the Four Corners area (*Ozoroa longipes*, *Pleiotaxis angustirugosa*, *Dichapetalum rhodesicum*, *Deinbollia fanshawei*), particularly in southwestern Zambia. Some appear to be only known from the type specimen, and further collecting may change their status.

There does not appear to be any centre of endemism within the area, with the possible exception of the Batoka gorge with its extreme habitat. Although Victoria Falls is cutting back, it is likely the habitat (bare basalt rock) has been in existence for a few million years.

The 'underground trees' of White (1976), geoxylic suffrutex plants found on seasonally poorly-drained grassland and closely related to woodland trees (Timberlake *et al*. 2000, p.44), are widespread to the north of the Four Corners area, extending up to the Zambezi watershed. Although many are endemic to, and characterise, the plains of the Upper Zambezi catchment, they are not a major feature of the study area, which has a limited extent of such grasslands. A number of them, however, are said to be common in the Caesalpinoid woodlands of southwestern Zambia (J.E. Burrows, pers. comm.).

5.5.2 Threatened Species

It is difficult to determine which species are threatened and which not. Most species in the Four Corners area have fairly wide distributions, so may be under threat of extinction in one part of their range but not elsewhere. Recently, a series of national assessments of threatened plant taxa

Table 5.3. Endemic and near-endemic plants species from the Four Corners area.

Taxon	**Notes**
MONOCOTYLEDONS	
Cyperaceae	
Cyperus robinsonii *Podl.*	Known only from Choma, SW Zambia.
Eriospermaceae	
Eriospermum seineri *Engl.& K.Krause*	Possible endemic to Botswana. Data unavailable.
Poaceae	
Aristida brainii Melderis	Known only from Victoria Falls area in rocky habitats.
Danthoniopsis petiolata *(J.B.Phipps) Clayton*	Known only from Victoria Falls area on cliffs and shallow soils.
Eragrostis glischra *Launert*	Known only from W Zimbabwe in hot dry areas, often in mopane woodland, rocky places or on Kalahari sand.
Panicum coloratum *L.* var. makarikariense *Goossens*	Endemic to Makgadikgadi pans in N Botswana. Localities elsewhere are introductions.
DICOTYLEDONS	
Anacardiaceae	
Ozoroa longipes *(Engl.& Gilg) R.& A.Fern.*	Angola, Caprivi, N Botswana, SW Zambia. *Pterocarpus* woodland on Kalahari sand.
Asclepiadaceae	
Huernia levyi *Oberm*.	Succulent restricted to E Caprivi, SW Zambia, N Botswana and NW Zimbabwe.
Asteraceae	
Pleiotaxis angustirugosa *Jeffrey*	Type from Chavuma, Sesheke. Endemic to Barotseland.
Dichapetalaceae	
Dichapetalum rhodesicum *Sprague & Hutch.*	Shrublet on Kalahari sand wooded grasslands from Sesheke, Okavango and Gwayi.
Euphorbiaceae	
Euphorbia fortissima *L.C.Leach*	Succulent candelabra tree known only from gorges below Victoria Falls and near Hwange town.
Fabaceae: Mimosoideae	
Acacia hebeclada *DC.* subsp. chobiensis *(O.B.Mill.) A. Schreib.*	Riverine shrub found along upper Zambezi, Chobe, Kavango and Kwando rivers.
Lythraceae	
Nesaea minima *Immelman*	Known only from Zwezwe Flats floodplain in Botswana.
Sapindaceae	
Deinbollia fanshawei *Exell*	Known only from Kalahari sand woodland in Barotseland (Mongu, Senanga).
Scrophulariaceae	
Jamesbrittenia zambeziaca *(R.E.Fries) Hilliard*	Known only from rock crevices in gorge below Victoria Falls.

were carried out with support from the Southern Africa Botanical Network, resulting in a database and book (Golding 2002). These are national, not regional, assessments. The list of threatened taxa in Table 5.4 is extracted from this, and indicates in which country the taxon is considered threatened as well as the threat category. Habitat data and the nature of the threat are mostly not available. The IUCN 2002 global Red Data List does not mention any of these taxa as being globally threatened.

As is to be expected, a number of threatened taxa are those that are sought by plant collectors, whether for a hobby (succulents, orchids) or for sale and use (*Selaginella*). Some are under threat due to habitat destruction by elephant and subsequent invasion by exotics such as *Lantana camara* (*Homalium abdessammadii*, *Acacia hebeclada*, *Croton leuconeurus*), while others are apparently very rare with low population numbers (*Euphorbia fortissima*, *Nesaea minima*, *Jamesbrittenia zambesiaca*), although the habitat is not under any particular threat.

Threat categories given for Zimbabwe are quite specific, while those for Zambia are very generalised owing to the limited information on distribution and status. It is likely that more species are threatened than those listed, and only further work on their status of plant populations will show this.

Some large tree species in the area around Victoria Falls are heavily exploited for wood carving for the curio trade, such as *Pterocarpus angolensis*, *Baikiaea plurijuga*, *Guibourtia coleosperma*, *Afzelia quanzensis*, *Kirkia acuminata* and *Combretum imberbe* (Matose, Mudhara & Mushove 1997). Although exploitation and cutting can be significant, the species involved are widespread and not in danger of extinction as such. At present, the conservation impact appears to be more on woodland types and habitat (see Childes, Chapter 4) rather than on the distribution and status of the species themselves. However, there is concern that mature individuals and those of good form of these species are disappearing, along with those genes.

The important habitats for both endemic and threatened species are the basalt gorges below Victoria Falls, small pans, wet grasslands or floodplains, the woodland/grassland margins on Kalahari sands, and, especially, the riparian woodland fringing the Zambezi, Chobe, Kwando, Kavango and similar large rivers. The Victoria Falls 'rainforest', which contains some species of restricted distribution or outlying populations although they have not been categorised as 'threatened', is also an important habitat.

5.5.3 Threats

As much of the area lies on Kalahari sands, which are of little use for agriculture and support a relatively low human population, the threat from conversion of land use is less than is often the case in Southern Africa. However, the area has an abundance of water in the form of the Kavango and Zambezi rivers in a generally water-deprived region, and present settlement patterns are determined mostly by access to perennial water. It is the availability of surface water that is being looked to for development, and hence wetland systems that are under the most threat. Specific threats include plans to extract water from the Kavango river in Namibia before it reaches the Okavango swamps, from the Thamalakane river at the end of the Okavango near Maun in Botswana, or from the Zambezi just above or below Victoria Falls in Zimbabwe. Smaller-scale extraction for irrigated agriculture has been suggested in the East Caprivi. There are no suitable dam sites on the Zambezi above Victoria Falls, but plans are advanced to put a dam across the lower Batoka gorge resulting in the formation of a long deep narrow lake that would stretch up to the foot of the Falls (see Du Toit 1982, Zambezi River Authority 1998).

Table 5.4. Threatened plant species from the Four Corners area (from SABONET Plant Red Data List, Golding 2002, excluding Data Deficient and Lower Risk taxa).

Taxon	L/F	IUCN threat category	Country
PTERIDOPHYTES			
Selaginellaceae			
Selaginella imbricata *(Forssk.) Decne.*	H	VU D2	Zambia
MONOCOTYLEDONS			
Orchidaceae			
Bonatea steudneri *(Rchb.f.) T.Durand & Schinz*	H	CR B1B2	Namibia
Eulophia angolensis *(Rchb.f.) Summerh.*	H	VU A1	Botswana
Eulophia latilabris *Summerh.*	H	VU A1	Botswana
Eulophia walleri *Kraenzl.*	H	CR C2D	Zimbabwe
Eulophia walleri *Kraenzl.*	H	VU B1B2	Namibia
DICOTYLEDONS			
Asclepiadaceae			
Huernia hislopii *Turrill* subsp. robusta *L.C.Leach & Plowes*	S	VU B2	Zimbabwe
Huernia levyi *Oberm.*	S	VU D2	Botswana
Cucurbitaceae			
Acanthosicyos naudinianus *(Sond.) C.Jeffrey*	H	VU B1B2	Zimbabwe
Cucumis humifructus *Stent*	H	VU D2	Zambia
Euphorbiaceae			
Croton leuconeurus *Pax* subsp. leuconeurus	W	CR B1B2D	Zimbabwe
Euphorbia fortissima *L.C.Leach*	WS	VU A1B2	Zimbabwe
Fabaceae: Mimosoideae			
Acacia hebeclada *DC.* subsp. chobiensis *(O.B.Mill.) A.Schreib.*	W	VU D2	Zimbabwe
Flacourtiaceae			
Homalium abdessammadii *Asch.& Schweinf.* subsp. wildemanianum *(Gilg) Wild*	W	CR B1B2D	Zimbabwe
Gentianaceae			
Canscora kirkii *N.E.Br.*	H	VU D2	Zambia
Lythraceae			
Nesaea minima *Immelman*	H	VU D2	Botswana
Passifloraceae			
Adenia pechuelii *(Engl.) Harms*	H	EN C1C2	Namibia
Rubiaceae			
Fadogia chlorantha *K.Schum.* var. thamnus *(K.Schum.) Verdc.*	W	VU D2	Zambia
Scrophulariaceae			
Jamesbrittenia zambesiaca *(R.E.Fr.) Hilliard*	H	CR B1B2	Zimbabwe

NB. L/F - life form; W - woody; S - succulent species; H - herb.

The headwaters of the Zambezi, Kwando and Kavango lie well outside the Four Corners area up on the gently-undulating Central African plateau, and have a higher and more reliable rainfall regime. There are concerns here that extensive conversion of land to agriculture will take place, particularly after the insecurity of the Angolan civil war, with consequent reduced regulation of flow, siltation and pollution. But the threat is not imminent. Given global climate change, if the headwaters area of northern Zambia/eastern Angola became much drier there would be greatly reduced flows into the Okavango and Chobe swamps, and increased evaporation. This would result in a significant reduction of wetland extent. It has also been suggested that the Okavango swamps are slowly drying out naturally through plant growth and channel change, leading to higher evaporative losses. Evidence for this can also be seen in reduced outflows into the Boteti river and Lake Ngami, although this may be due to minor tectonic changes affecting flow patterns or a series of low rainfall years. Wetland vegetation and some wetland plants are the species most under threat in the Four Corners area. But as wetland species are mostly widely distributed (Timberlake *et al*. 2000) this will not significantly affect their global status. Of much more concern in this regard are species associated with pans and ephemeral water sources.

The other major threat to the plants of the area, and often of a more acute nature, is the impact of elephant on fringing riparian woodland along the Chobe and Zambezi rivers above Victoria Falls. Within Zimbabwe, three tree species (*Acacia hebeclada*, *Croton leuconeuras*, *Homalium*) are threatened with local extinction as they only occur in woodlands between Kazungula and Victoria Falls. Similar woodlands along the Chobe river in Botswana have been devastated by high elephant concentrations over the last 20 years. The bank on either side of the Zambezi in Zambia below Senanga is much less affected as elephant populations there are low. Linked into riparian woodland destruction is invasion by the alien shrub *Lantana camara*, which is now dominating much of the shrub layer near Victoria Falls and inhibiting establishment of indigenous woodland species.

Other invasive plants are various water weeds such as the ferns *Salvinia molesta* and *Azolla filiculoides*, along with *Pistia stratiotes* (Araceae). *Salvinia* has been of particular concern (Edwards & Thomas 1977, Koch & Schlettwein 1983, Mitchell 1967, Smith 1993), but is now under control through the use of a biological control agent, the weevil *Cyrtobagous singularis* (Bethune 1996, Schlettwein & Bethune 1992). The other two aquatic weeds have not been particularly troublesome here.

The major threat to the Kalahari sand woodlands is the combined impact of logging and fire. Although the woodlands are adapted to periodic fire, frost and herbivory (most species coppice readily), opening up of the canopy resulting in the spread of a well-developed grass layer with the increased risk and impact of fire, have continued to transform large areas from almost closed-canopy to open woodland (Seward 1993), with the loss of a number of shade-adapted plants. Given the long growth periods of the major trees such as *Baikiaea plurijuga* (Zambezi teak or mukusi), *Guibourtia coleosperma* (mchibi) and *Pterocarpus angolensis* (mukwa or kiaat), replacement of canopy trees is not keeping pace with destruction. It is sometimes stated that no closed-canopy *Baikiaea* forest now remains, although firm evidence for this is lacking.

5.6 CONSERVATION

5.6.1 Areas of Conservation Concern

The data on plant distribution are patchy, hence it is difficult to confidently state which are the areas of major interest for plant conservation. Perhaps a more useful approach is to identify areas with high habitat diversity that are known to have either high plant diversity or contain species of

restricted distribution. This was done using Landsat imagery, but is heavily biased towards Zimbabwe and adjacent areas owing to availability of imagery for these areas.

Initially eight areas have been identified, and are briefly described below. Five straddle an international border. They are also shown in Figure 5.1.

(a) **Okavango Swamps**: An extensive area of perennial and seasonal swamp with numerous islands and backwaters in northwestern Botswana. One of the largest and probably the most pristine wetland within south central Africa, with a high habitat diversity. A very significant body of biological work has been done here over the last 40 years, and has led to greater understanding of the dynamics of wetland ecology. The swamps lie immediately adjacent to dry woodland dominated by mopane or Kalahari vegetation, with a narrow transition zone. A significant part of the swamps are protected as Moremi Game Reserve, and cattle raising as a land use option is curtailed in some parts by the presence of tsetse fly and cattle fences.

(b) **Kavango / Okavango river fringes**: Woodland and grassland mixed with wetland vegetation flanking the Kavango/ Okavango river in western Caprivi and northern Botswana (the "panhandle"). The woodlands are still fairly pristine over much of their extent and not severely impacted by elephant. They have a high diversity of plant species. The area is not formally protected, except on the east bank of the Kavango in Namibia.

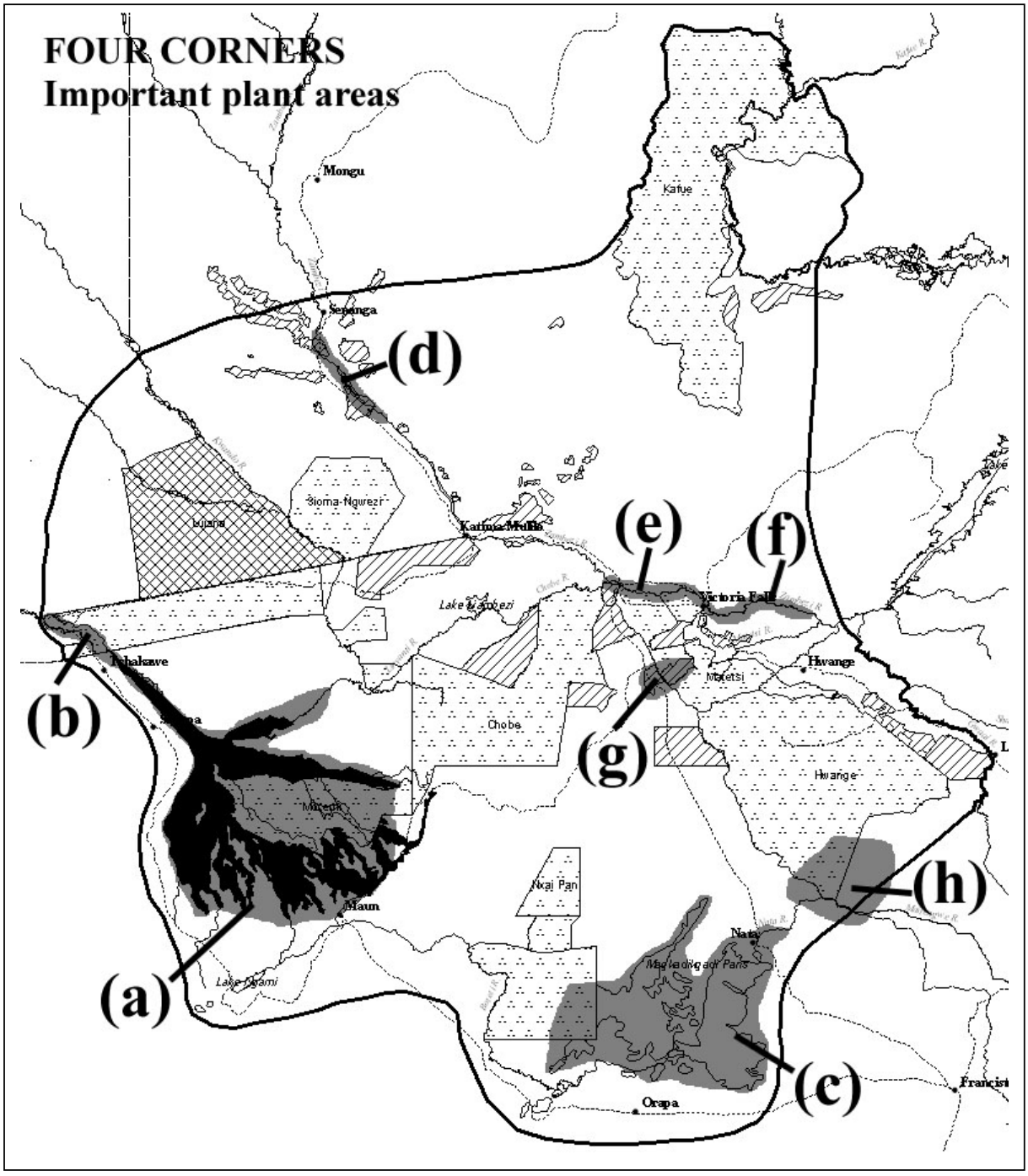
(c) **Makgadikgadi pans and Nata River delta**: An extensive area of north central Botswana with salt flats surrounded by dry woodland and grassland of various types. Many of the habitats are very unusual, although only one endemic plant is found (*Panicum coloratum* var. *makarikariense*). The mouth of the Nata River supports woodland of an unusual type, as well as being important for birds. Only a small part of the area is formally protected (Makgadikgadi Game Reserve).

(d) **Zambezi riparian woodland below Senanga**: Patches of riparian woodland flanking the Zambezi River upstream of Ngonye Falls in Zambia. It is not clear what their present status is. Riparian woodland, which usually contains a number of species of restricted distribution, is becoming increasingly rare in the area owing to damage by elephant as well as human settlement. Any remaining patches are a conservation priority. They are not formally protected.

(e) **Zambezi riparian woodland between Kazungula and Victoria Falls**: The remaining riparian woodland on the Zimbabwe side is protected as Zambezi National Park and Matetsi Safari Area; that on the Zambian side has mostly been cleared for agriculture and settlement. Despite severe damage by elephant in places, these woodlands contain a number of rare woody species of very restricted distribution. Very unusual stands of *Acacia kirkii* are found on mud flats dating from Pleistocene times.

(f) **Victoria Falls and Batoka Gorge**: The Zambezi abruptly changes its nature here from a wide, relatively sluggish river with many wooded islands to a narrow rushing river enclosed in a 90 m deep gorge carved into the basalt. The permanent spray zone at the Falls themselves, in both Zambia and Zimbabwe, allows for the development of mesic woodland and herbaceous vegetation with a number of unusual plants. The Batoka gorge harbours four species endemic to the area. The gorges are mostly unprotected, although generally inaccessible. The Batoka gorge dam will flood much of the bottom of the gorges and change the microclimate. The Victoria falls 'rainforest', essentially an

Figure 5.1 Areas with high habitat diversity that are known to have either high plant diversity or contain species of restricted distribution.



(a) Okavango Swamps
(b) Kavango/Okavango river fringes
(c) Makgadikgadi Pans and Nata River Delta
(d) Zambezi riparian woodland (below Senanga)
(e) Zambezi riparian woodland (between Kazungula and Victoria Falls)
(f) Victoria Falls and Batoka Gorge
(g) Kazuma Pan
(h) Southern Hwange dunes and Nata mudflats

extensive riparian forest caused by the permanent spray from the waterfalls, contains species such as the ferns *Isoetes alstonii* and *Aleuritopteris farinosa* and the orchid *Nervilia bicarinata*, which are localised in distribution or outlying populations. The area is protected, although heavily utilised by visitors. Invasive plants such as *Lantana* are a problem.

(g) **Kazuma Pan**: A transfrontier area of northern Botswana and Zimbabwe with a large seasonal pan and grassland surrounded by various types of woodland, both on Kalahari sand and on black clays. There is a high habitat diversity and such grasslands are very unusual. The whole area in Zimbabwe is protected as national park or forest land. The Pandamatenga grasslands in Botswana, just to the south, may also be worthwhile to include, although a large portion is under commercial farming.

(h) **Southern Hwange dunes and Nata mudflats**: An extensive mosaic, mostly in Zimbabwe although going into Botswana, of relatively untouched dense woodland (*Baikiaea*, *Acacia erioloba*, *A. luederitzii*) on Kalahari sand dunes dating from the Pleistocene, mudflats with *Acacia* and mopane, and shallow sand areas with *Combretum* scrub. Much of the area lies within Hwange National Park, although a significant portion lies in Tsholotsho communal land. There are also many small seasonal pans with ephemeral species. A high habitat diversity with a number of unusual plant species - a meeting place of the Zambezian and Kalahari floras.

5.6.2 Transfrontier Approach to Conservation

The Four Corners area straddles five countries - it is an historical meeting place of the drainage from a large part of the Central Africa plateau, particularly from the palaeo-Upper Zambezi. In addition to linkages still provided by present-day drainage, there is a large mobile population of elephant that move across borders. Conservation here has to be transfrontier in nature; it is not possible to isolate small areas. The drainage of the Kavango/Okavango lies in the highlands and plateau of Central Angola, as does the drainage of the Kwando, while the headwaters of the Zambezi lie further north in both eastern Angola and northern Zambia. As the wetlands and grasslands form the core conservation attribute of the Four Corners area, any conservation activity must take full cognisance of these linkages far across national boundaries.

The major areas of biodiversity concern and interest within the whole area need to be identified, and then conservation action can be harmonised. It is not just that development upstream can cause deleterious affects downstream, but it may well be more efficient and effective to target conservation of, say, *Homalium abdessammadii* in Zambia rather than saving the few remnant trees in Zimbabwe in the face of continued high elephant pressures.

The threats to conservation of the area lie primarily with threats to the hydrology. The possibilities of water extraction, dams upstream in Angola, and conversion of land to intensive agricultural use in the headwaters region, are the major threats. At a more local level, and more specifically for plants, a major threat is damage caused by high elephant populations, especially to riparian woodland. Owing to animal movements, any conservation action will have to address such issues from a cross-border perspective. These elephant populations cannot be managed nationally.

The other major threat to both plants and vegetation is from excessive logging of timber on Kalahari sands and the resulting increased incidence of fire. These are best managed nationally, but harmonisation of management across boundaries, particularly the Botswana/Zimbabwe border, would greatly help.

It is important that the few remaining unlogged areas, or those that have not been heavily logged for 50 years or more, are given some form of protection - especially from frequent fire as well as renewed logging.

Management of invasive plants, aquatic weeds in particular, needs to be coordinated across national borders. The invasion of *Salvinia* in the Chobe area in the 1950-60s was addressed successfully by three governments - Botswana, South West Africa (now Namibia) and the then Rhodesia - despite some significant political differences at the time.

5.6.3 Global Climate Change

There appears to have been a decline in annual rainfall in the SADC region and an increase of about 0.05^{o}C temperature per decade over the last century (Hulme 1996). However, annual variability is greater than this recorded rise. The one regional study done (Hulme 1996), used a global increase in mean temperature of 1.7^{o}C in modelling the potential effects of global climate change. The model used climate, soil properties and CO_2 concentrations. Based on this the most likely scenario was thought to be a modest drying over large parts of the region, or even a rainfall decline of up to 20%. The most likely situation is a replacement of grassland by *Acacia* savanna, while desert would expand northwards into larger areas of Botswana.

It is not clear what this would mean on the ground in the Four Corners area. The *Baikiaea* and similar woodlands on deep Kalahari sands with good moisture storage will be comparatively buffered from such changes. However, mopane and similar woodlands on loamy, clay or shallow soils are likely to be much more affected. Given that a number of plant species of particular interest are confined to marginal habitats, it is likely that these would either die out, or possibly shift to a different habitat that becomes available. The riparian woodlands flanking the Zambezi are unlikely to be affected as the Zambezi is perennial, and is unlikely to become less so unless quite radical changes in climate occur. The headwaters and main charging areas are up on the Angolan plateau.

What is of perhaps more concern is the potential drying up of wetlands such as the Okavango and Linyanti swamps. Relatively small changes in inflow, continued over a number of years and coupled with higher evapo-transpiration rates, are likely to lead to a reduction in the extent of permanent or papyrus swamp. Seasonal pans will, of course, be far more affected, and it is these that contain a number of ephemeral species of very restricted distribution.

5.7 GAPS IN KNOWLEDGE

The first major gap in our knowledge on the plants of the area is on their distribution and status. Although the taxonomy (i.e. definition of what is and what isn't a species) is relatively sound for all but a few genera, information on species distribution is patchy. Some areas, such as Hwange, Okavango/Moremi and Kafue National Park, are moderately well covered, but there are significant gaps elsewhere in parts of northern Botswana, southern Zambia and of course in Angola. Surprisingly, even in Zimbabwe, apart from Hwange National Park and the environs of Victoria Falls, information on the distribution of non-timber species is not good. In addition to gaps in basic distribution data, there is very little documented on the status (population size, regeneration capacity) of all species, with the exception of a few of economic significance such as timber trees.

Much of the information we do have is in the form of labelled specimens held in herbaria in Harare (which probably contains the major collections for this region), Mt. Makulu (Zambia), Maun (Botswana), Windhoek and overseas at Kew, Missouri, Lisbon, etc. These data are not

readily accessible as many herbarium specimens have not yet been entered into electronic databases with georeferenced localities, enabling rapid retrieval.

Wetland plants have been better covered than other groups, possibly better than woody species which are normally the best known, owing to the studies by Smith (1984) and Timberlake *et al*. (2000). Given that the Four Corners area is a biological meeting place, better determination of distribution patterns would give us more insight both into phytogeography and, more usefully, a clearer idea of status and ecological determinants which would enable us to better target conservation action.

Building on and refining the present Four Corners checklist through the addition of other herbarium records and collections or unpublished checklists, would be a useful and relatively straightforward first step. Another priority is to determine the status and distribution of the identified endemic species, and see if there are any other taxa more or less confined to the broad Four Corners area. It is the endemic taxa that should be among the key focal points for conservation action. Given that the actual status for many of the threatened species listed in Table 5.4 is uncertain or speculative, another priority should be to investigate the level of threat further to see if action is required.

Other significant gaps in knowledge are more ecological - what the regeneration requirements are for species, their productivity, and the ecological role they play in the places where they are found. It is these gaps that will become limiting when it comes to actual conservation action on the ground.

5.8 MONITORING

Monitoring requires the establishment of detailed baseline data using repeatable methods, and the subsequent recording of the same parameters or features at a later time in order to detect change. Obviously an important requirement is to have sufficiently low variance in the data set (high reliability) so that any change can be regarded as real, not just due to variance. Another important aspect, often ignored, is to be able to reliably ascribe any change in plant composition or relative abundance to a changed environmental or other variable. Change without an understanding of what this might be due to does not help conservation management. This section concerns monitoring of plant species, not of vegetation.

It is suggested that three types of plant monitoring are carried out: (1) monitoring of trees to determine mortality, recruitment and growth rates, (2) monitoring of the composition of the herbaceous layer, and (3) monitoring of the status of species of particular interest (e.g. endemics or threatened species). These involve different techniques. It is important that the site chosen for monitoring is representative of a much wider area and that the recording and analysis techniques are straightforward and not open to misinterpretation. Different people with different skill levels are likely to be involved over the years.

5.8.1 Tree Monitoring

Monitoring of recruitment, mortality and incremental growth of woody plants is best tackled using a marked permanent plot with individually tagged plants. A suitable method to do this is outlined in a chapter in the Biodiversity Foundation for Africa Savskill report (Cotterill 1995), based on the Smithsonian Institution/MAB protocol and experience in southern Zambia. It is similar to standard forestry permanent plots (e.g. Mkosana & Kwesha 1994). A minimum diameter size is used (usually 3 cm DBH), and any individual in this size class on remeasuring some years later is regarded as recruitment. The normal plot size in woodland is 1 hectare, giving

around 300-600 individually marked stems. The plot should be carefully located to ensure representativeness both of the vegetation type/density and of environmental conditions. A habitat or vegetation map is most useful in this regard.

5.8.2 Herbaceous Monitoring

One of the major problems with monitoring is the high variability of data sets between separate observations. With woody plants it is possible to individually tag them, but this is not possible with grasses and forbs. Here permanently marked transects are best, and a quantitative measure such as basal area or cover-abundance is used. Resolution is not high, but possibly adequate to detect significant changes in composition and cover over a 5-year period.

Coupled with this, a qualitative inventory - if carried out at the same time of year as the initial survey - can yield useful data on local immigration or extinction of species represented by few individuals.

5.8.3 Species of Particular Interest

From a conservation point of view there are generally some plant species, woody or herbaceous, of particular interest. These are usually limited in population size and distribution across an area, and are often under some sort of threat. Such taxa provide good focal points for monitoring of the threat. Monitoring of these taxa should be quantitative based on measured changes in distribution or population size. Ideally, an effort should be made to record recruitment into the population and age-class distribution to ensure sustainability.

Particular habitats, such as riverine woodland and small pans, are more under threat than others, and it is these where monitoring should be focused.

5.9 ACKNOWLEDGEMENTS

My thanks to Anthony Mapaura (SRGH, Harare herbarium) and Gillian Maggs and staff (WIND, Windhoek herbarium) for access to the Zimbabwe and Namibia databases, and to Jane McLellan for typing of the various draft species lists. John Burrows and Susan Childes are thanked for comments on a draft.

5.10 REFERENCES

Allen, A. (1978). A preliminary reconnaissance of the vegetation of Orapa and environs. *Botswana Notes & Records* **10**: 169-185.

Barbosa, L.A.G. (1970). *Carta Fitogeográfica de Angola.* Instituto de Investigaçâo Científica de Angola, Luanda.

Barnes, J.E. & Turton, L.M. (1994). A List of the Flowering Plants of Botswana in the Herbaria at the National Museum, Sebele and University of Botswana (revised edition). Botswana Society/National Museum, Gaborone.

Bethune, S. (1991). Kavango river wetlands. *Madoqua* **17**(2): 77-112.

Bethune, S. (1996). Biological control of *Salvinia molesta* in the Eastern Caprivi. Progress report, 1980-1995. Report No. RR/96/1. Dept. Water Affairs, Windhoek.

Biggs, R.C. (1976). The effects of the seasonal flood regime on the ecology of Chief's Island and the adjacent floodplain systems. In: *The Okavango Delta and its Future Utilisation*, pp.113-120. Botswana Society, Gaborone.

Bingham, M.G. (1992). The forest and grazing resources of the Masese Agricultural Project area, Sesheke District, Western Province, Zambia. Unpublished report. RDP Livestock Services, Mongu, Zambia.

Bingham, M.G. (2002). Zambian plant species list. Unpublished electronic list. M.G.Bingham, Lusaka.

Blair Rains, A. & McKay, A.D. (1968). The Northern State Lands, Botswana. Land Resource Study 5. Land Resources Division, Surrey, UK.

Botswana Society [editor] (1976). *The Okavango Delta and its Future Utilisation.* Botswana Society, Gaborone.

Bremekamp, C.E.B. (1935). Notes on the vegetation of the Central Kalahari. *Annals of Transvaal Museum* **16**(3): 457-458.

Bremekamp, C.E.B. & Obermeyer, A.A. (1935). Sertum Kalahariense. A list of the plants collected. *Annals of Transvaal Museum* **16**(3): 399-442.

Brown, C.J. & Jones, B. [editors] (1994). Results of a socio-ecological survey of the west Caprivi Strip, Namibia: a strategic community-based environment and development plan. Report to Directorate of Environmental Affairs, Windhoek.

Calvert, G.M. (1986). The ecology and management of the Kalahari sand forest vegetation of south-western Zimbabwe. In: *The Zambezi Teak Forests* (editor G.D. Piearce), pp.121-158. Forest Department/FINNIDA, Ndola.

Child, G. (1968). An Ecological Survey of Northeastern Botswana. FAO Report TA 2563. FAO, Rome.

Childes, S.L. (1989). Phenology of nine common woody species in semi-arid, deciduous Kalahari sand vegetation. *Vegetatio* **79**: 151-163.

Childes, S.L. & Walker, B.H. (1987). Ecology and dynamics of the woody vegetation on the Kalahari sands in Hwange National Park, Zimbabwe. *Vegetatio* **72**: 111-128.

Coelho, H.P. (1966). Manchas florestais de *Ricinodendron rautaneii* Schinz ("Mangongo") no Distrito de Cuando-Cubango (Estudo Prévio). *Agronómia da Angola* **24**: 33-47.

Cotterill, F.P.D. [editor] (1995). *SAVSKILL: a methodology to measure and monitor biodiversity in Central African savannas*. Occasional Papers in Biodiversity No. 1. Biodiversity Foundation for Africa, Bulawayo.

Curson, H.H. (1932). *Notes on the flora of Ngamiland and Chobe Part I: Outline of the floral regions.* Notes on the flora of Ngamiland and Chobe Part I: Outline of the floral regions. 18th Report of Directorate of Veterinary Services and Animal Industry. Government Printer, Pretoria.
Curson, H.H. (1947). Notes on Eastern Caprivi Strip. *S. African J. Sci.* **43**: 124-157.

Du Toit, R.F. [compiler] (1982). *A preliminary assessment of the environmental implications of the proposed Mupata and Batoka hydroelectric schemes (Zambezi river, Zimbabwe)*. Natural Resources Board, Harare.

Edmonds, A.C.R. [compiler] (1976). *Republic of Zambia: Vegetation map*. Republic of Zambia: Vegetation map. Forest Department, Lusaka.

Edwards, D. (1972). Report by November 1972 joint Botswana-South Africa survey of the extent and degree of occurrence of *Salvinia molesta* (Kariba weed) in the Chobe-Linyanti-Kwando river system. Unpublished report, South Africa.

Edwards, D. & Thomas, P.A. (1977). The *Salvinia molesta* problem in northern Botswana and eastern Caprivi area. In: *Proceedings of the Second National Weeds Conference of South Africa* (editor D. Annecke), pp.221-239. A.A. Balkema, Cape Town.

Fanshawe, D.B. (1968). The vegetation of Sesheke District. Forest Research Pamphlet No. 16. Forest Department, Ndola, Zambia.

Fanshawe, D.B. (1969a). The vegetation of Senanga District. Forest Research Pamphlet No. 26. Forest Department, Ndola, Zambia.

Fanshawe, D.B. (1969b). *The Vegetation of Zambia.* The Vegetation of Zambia. Forest Research Bulletin No. 7. Division of Forest Research, Kitwe, Zambia.

Fanshawe, D.B. (1970). The vegetation of the Kafue National Park. Forest Research Pamphlet No. 33. Forest Department, Ndola, Zambia.

Fanshawe, D.B. (1972). The vegetation of the Victoria Falls and its environs. Forest Research Pamphlet No. 45. Forest Department, Ndola.

Fanshawe, D.B. (1975). The Flora. In: *Mosi-oa-Tunya: A Handbook to the Victoria Falls Region* (editor D.W. Phillipson), pp.113-127. Longman Zimbabwe, Harare.

Gardiner, P. (1970). Wankie Tribal Trust Land - timber concession. Unpublished map. Forestry Commission, Bulawayo.

Gibbs, L.S. (1906). A contribution to the botany of Southern Rhodesia. *J. Linnean Soc., Botany* **37**: 161-??.

Giess, W. (1971). A preliminary vegetation map of South West Africa. *Dinteria* **4**: 5-64.

Golding, J.S. [editor] (2002). *Southern African Plant Red Data Lists*. SABONET, Pretoria. [also CD-ROM database]

Gwyther, J.H. (1957). Vegetation map of Victoria Falls National Park. Unpublished map. Forestry Commission, Bulawayo.

Hanks, J. (1969). Addenda and corrigenda to "A first list of plants collected in Kafue National Park". *The Puku* **5**: 91-121.

Heemstra, H.H. (1976). The vegetation of the seasonal swamps. Technical Note No. 28.

UNDP/FAO project BOT/71/506, Gaborone.

Henry, P.W.T. (1966). Enumeration report on the main Chobe forest block. Report to Department of Forests, Bechuanaland, Kasane.

Henry, P.W.T. (1978). Forest inventory and management in the *Baikiaea* forest of north-east Botswana. Project Report 44. Land Resources Division, Ministry of Overseas Development, Surrey, UK.

Hines, C.J.H. (1997). Vegetation survey. In: *An Environmental Profile and Atlas of the Caprivi* (compilers J.M. Mendelsohn & C.S. Roberts), pp. 19-23. Directorate of Environmental Affairs, Windhoek.

Hulme, M. (1996). *Climate Change and Southern Africa: an exploration of some potential impacts and implications in the SADC region.* Climatic Research Unit, University of East Anglia, Norwich.

Huntley, B.J. & Matos, E.M. (1994). Botanical diversity and its conservation in Angola. *Strelitzia* **1**: 53-74.

Hutchinson, J. (1946). *A Botanist in Southern Africa.* London.

Judge, J.G. (1975). The Kalahari sands forest of Rhodesia: management proposals. Unpublished report. Forestry Commission, Bulawayo.

Keeling, F.J. (1963). Sikumi Forest Area - vegetation belts. Unpublished map. Forestry Commission, Bulawayo.

Koch, H. & Schlettwein, C.H.G. (1983). The history of the *Salvinia molesta* problem in the eastern Caprivi Zipfel of South West Africa/Namibia from 1948 to 1981. In: *Proceedings of the 20th Annual Congress of the Limnological Society of Southern Africa.* Limnological Society, South Africa.

Lebrun, J.-P. & Stork, A.L. (1991-1997). *Énumération des Plantes à Fleurs D'Afrique Tropicale*, vols. I-IV. Conservatoire et Jardin Botaniques de la Ville de Geneve, Geneva.

Lugard, E.J. & Brown, N.E. (1909). The flora of Ngamiland. *Kew Bulletin* **3**: 81-146.

Mapaura, A. (2003, in press). A checklist of Zimbabwean vascular plants. SABONET, Pretoria.

Mapaure, I. (1998). Vegetation studies. In: Batoka Gorge Hydro Electric Scheme - Feasibility Report. Further Environmental Impact Assessment. Vol 4a. Zambezi River Authority, Harare.

Matose, F., Mudhara, M. & Mushove, P. (1997). The woodcraft industry of the Bulawayo-Victoria Falls road. IES Working Paper 2. Institute of Environmental Studies, Harare.

Martin, J.D. (1940). The *Baikiaea* forests of Northern Rhodesia. *Empire Forestry Journal* **19**: 8-19.

Miller, O.B. (1939). The Mukusi forests of the Bechuanaland Protectorate. *Empire Forestry*

Review **18**(2): 193-201.

Mitchell, B.L. (1963). A first list of plants collected in the Kafue National Park. *The Puku* **1**: 75-191.

Mitchell, D.S. (1967). A survey of *Salvinia auriculata* in the Chobe river system - March 1967. Unpublished report. Dept. Wildlife & National Parks, Botswana.

Mkosana, F. & Kwesha, D. (1994). Procedures for establishing Strict Natural Reserves and Permanent Increment Plots. Research Paper No.2. Division of Research & Development, Zimbabwe Forestry Commission, Harare.

Monteiro, R.F.R. (1970). Estudo da flora e da vegetação das florestas abertas do planalto do Bié. Instituto de Investigação Cientifica de Angola, Luanda.

Orpen, F.L. (1954). Fuller Forest Area - forest survey. Unpublished map. Forestry Commission, Bulawayo.

Pole-Evans, I.B. (1938). *A reconnaissance trip through the eastern portion of the Bechuanaland Protectorate and an expedition to Ngamiland. June-July 1937.* Memoir of Botanical Survey of South Africa No. 21. National Herbarium, Pretoria.

Rogers, C.M.L. (1993). *A woody vegetation survey of Hwange National Park.* Dept. National Parks & Wild Life Management, Harare.

Rushworth, J.E. (1975). *The floristic, physiognomic and biomass structure of Kalahari sand shrub vegetation in relation to fire and frost in Wankie National Park, Rhodesia*. MSc thesis, University of Rhodesia, Harare.

Rushworth, J.E. (1978). A preliminary checklist of the vascular plants of Wankie National Park and a summary of life-forms, families, genera and species. Unpublished report. Dept. National Parks & Wild Life Management, Hwange.

Schlettwein, C.H.G. & Bethune, S. (1992). Aquatic weeds and their management in southern Africa: biological control of *Salvinia molesta* in the Eastern Caprivi. In: *Wetlands Conservation Conference for Southern Africa* (editors T. Matiza & H.N. Chabwela), pp.173-187. IUCN, Gland.

Schlettwein, C.H.G., Simmons, R.E., MacDonald, A.W. & Grobler, H.J.W. (1991). Flora, fauna and conservation of East Caprivi wetlands. *Madoqua* **17**(2): 67-76.

Seagrief, S.C. & Drummond, R.B. (1958). Some investigations on the vegetation of the north-eastern part of Makarikari salt pan, Bechuanaland.*Proc.&Trans.Rhodesia Sci. Assoc* **46**:103-129.

Seward, B.R.T. (1993). Threatened dry-forest ecosystems. In: *The Ecology and Management of Indigenous Forests in Southern Africa* (editors G.D. Piearce & D.J. Gumbo), pp. 273-278. Zimbabwe Forestry Commission, Harare.

Simpson, C.D. (1975). A detailed vegetation study on the Chobe river in north-east Botswana. *Kirkia* **10**(1): 185-227.

Smith, P.A. (1976). An outline of the vegetation of the Okavango drainage system. In: *The Okavango Delta and its Future Utilisation*, pp.93-112. Botswana Society, Gaborone.

Smith, P.A. (1984). A preliminary list of aquatic, semi-aquatic and other wetland, vascular plants of Botswana. Unpublished report, Maun.

Smith, P.A. (1991). Vegetation. *Okavango Ecozoning report.* Okavango Ecozoning report, pp.53-76, 205-211. Snowy Mountains Consultants, Maun.

Smith, P.A. (1993). Control of floating water weeds in Botswana. In: *Control of Africa's Floating Water Weeds* (editors A. Greathead & P. De Groot). Commonwealth Science Council/Biomass Users Network/CAB International, UK. pp.31-42.

Smith, P.A. (2000). List of aquatic and wetland plants from the Chobe and East Caprivi wetlandsa of Namibia/Botswana. In: *Biodiversity of the Zambezi Basin Wetlands* (editor J.R. Timberlake), pp.83-93. Biodiversity Foundation for Africa, Bulawayo/Zambezi Society, Harare.

Sommerlatte, M.W.L. (1976). A survey of elephant populations in north-eastern Botswana. Field Document 2. FAO/Department of Wildlife, National Parks and Tourism, Gaborone.

Teixeira, J.B. (1960). Contribuçâo para o estudo da flora do Cuando Cubango. *Agronómia da Angola* **12**: 97-133.

Timberlake, J.R. (1980). *Handbook of Botswana Acacias*. Ministry of Agriculture, Gaborone.

Timberlake, J.R. (1994). Selected annotated bibliography on the ecology of woodlands on Kalahari sand in Zimbabwe. Research Paper No. 8. Division of Research & Development, Zimbabwe Forestry Commission, Harare.

Timberlake, J.R. (1999). A century of vegetation survey in Zimbabwe. *Zimbabwe Science News* **33**(3): 63-72.

Timberlake, J.R., Fagg, C. & Barnes, R. (1999). *Field Guide to the Acacias of Zimbabwe.* CBC Publishing, Harare.

Timberlake, J.R., Drummond, R.B., Smith, P. & Bingham, M.G. (2000). Wetland plants of the Zambezi Basin. In: *Biodiversity of the Zambezi Basin Wetlands* (editor J.R. Timberlake), pp.31-81. Biodiversity Foundation for Africa, Bulawayo/Zambezi Society, Harare.

Timberlake, J.R. & Nobanda, N. (1993). Vegetation survey in Zimbabwe. *Kirkia* **14**(1): 24-48.

Timberlake, J.R., Nobanda, N. & Mapaure, I. (1993). Vegetation survey of the communal lands - north and west Zimbabwe. *Kirkia* **14**(2): 171-270.

Tinley, K.L. (1966). Western Caprivi Conservation Area, South West Africa: a proposal of natural resource land use. Department of Nature Conservation, Windhoek.

Tinley, K.L. (1973). *An Ecological Reconnaissance of the Moremi Wildlife Reserve, Northern Okovango Swamps, Botswana* (second edition). Okavango Wildlife Society, Johannesburg.

Trapnell, C.G. & Clothier, J.N. (1937). The soils, vegetation and agricultural systems of North-

Western Rhodesia. Government Printer, Lusaka.

Trapnell, C.G. & Clothier, J.N. (1996). The soils, vegetation and traditional agriculture of Zambia. Vol. I, Central and Western Zambia. Redcliffe Press, Bristol.

Werger, M.J.A. & Coetzee, B.J. (1978). The Sudano-Zambezian region. In: *Biogeography and Ecology of Southern Africa* (editor M.J.A. Werger), pp.301-462. W. Junk, The Hague.

White, F. (1965). The savanna woodlands of the Zambezian and Sudanian domains: an ecological and phytogeographical comparison. *Webbia* **19**: 651-681.

White, F. (1976). The underground forests of Africa: a preliminary review. *Gardens' Bulletin, Singapore* **29**: 57-71.

White, F. (1983). *The Vegetation of Africa: a descriptive memoir to accompany the UNESCO/AETFAT/UNSO vegetation map.* UNESCO, Paris.

Wild, H. (1952). A guide to the flora of the Victoria Falls. In: *The Victoria Falls Handbook* (editor J.D. Clarke), pp. 121-160. Zimbabwe.

Wild, H. (1964). A guide to the flora of the Victoria Falls. In: *The Victoria Falls* (editor B.M. Fagan). Livingstone.

Williamson, D.T. (1974). *The utility of satellite imagery in managing the wildlife resources of Botswana*. MSc thesis. California State University, Humboldt, USA.

Zambezi River Authority (1998). *Batoka Gorge Hydro Electric Scheme - Feasibility Report. Further Environmental Impact Assessment.* Zambezi River Authority, Lusaka.

Appendix 5.1. Plant checklist of the Four Corners area (data sources given in Table 5.1.).

* = introduced taxon
NB. Names in brackets indicate previously used names.

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
PTERIDOPHYTES							
Aspleniaceae							
Asplenium erectum Willd.					X		
Asplenium protensum Schrad.					X		
Azollaceae							
Azolla nilotica Mett.							X
Azolla pinnata R.Br. subsp. africana (Desv.) R.M.K.Saunders & K.Fowler	X	X		X	X		
Dennstaedtiaceae							
Microlepia speluncae (L.) T.Moore	X			X	X		X
Pteridum aquilinum (L.) Kuhn					X		
Equisetaceae							
Equisetum ramosissimum Desf. subsp. ramosissimum		X					X
Isoetaceae							
Isoetes alstonii Reed & Verdc.					X		X
Isoetes schweinfurthii Baker					X		X
Marsiliaceae							
Marsilea macrocarpa C.Presl							X
Marsilea nubica A.Braun var. gymnocarpa (A.Braun) Launert				X			X
Nephrolepidaceae							
Nephrolepis cordifolia (L.) C.Presl (N. undulata)					X		X
Ophioglossaceae							
Ophioglossum reticulatum L. subsp. reticulatum					X		
Parkeriaceae							
Ceratopteris thalictroides (L.) Brogn (C. cornuta)	X			X			
Psilotaceae							
Psilotum nudum (L.) P.Beauv.							X
Pteridaceae							
Actinopteris radiata (Sw.) Link							X
Adiantum capillus-veneris L.		X			X		X
Adiantum incisum Forssk.					X		X
Adiantum lunulatum Burm.f.							X
Adiantum patens Willd.					X		X
Aleuritopteris farinosa (Forssk.) Fée (Cheilanthes farinosa)					X		X
Pteris catoptera Kunze					X		X
Pteris cretica L.							X
Pteris dentata Forssk.					X		
Pteris vittata L.		X					X
Salviniaceae							
*Salvinia molesta D.S.Mitch.		X		X	X		X
Selaginellaceae							
Selaginella imbricata (Forssk.) Decne.					X		X
Thelypteridaceae							
Amauropelta bergiana (Schltdl.) Holttum (Thelypteris bergiana)					X		
Ampelopteris prolifera (Retz.) Copel.		X			X		
Christella buchananii (Schelpe) J.P.Roux							X
Christella dentata (Forssk.) Brownsey & Jermy (Thelypteris dentata)					X		
Cyclosorus interruptus (Willd.) H.Ito (Thelypteris totta, T. interupta)	X	X		X	X		
Thelypteris confluens (Thunb.) C.V.Morton (T. palustris)	X	X		X			
MONOCOTYLEDONS							
Alismataceae							
Burnatia enneandra (Hochst.) Micheli	X	X		X		X	X
Caldesia reniformis (D.Don) Makino (Caldesia parnassifolia)	X	X					

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Limnophyton angolense Buchenau	X						
Limnophyton obtusifolium (L.) Miq.	X			X			
Wiesneria schweinfurthii Hook.f.	X						
Aloaceae							
Aloe chabaudii Schönland var. chabaudii					X	X	X
Aloe christianii Reynolds					X		X
Aloe cryptopoda Baker					X		X
Aloe greatheadii Schönland						X	
Aloe littoralis Baker (A. rubrolutea)		X	X				
Aloe zebrina Baker	X			X	X		X
Amaryllidaceae							
Ammocharis tinneana (Kotschy & Peyr.) Milne-Redh.& Schweick.	X						
Boophane disticha (L.f.) Herb.	X					X	
Crinum carolo-schmidtii Dinter	X			X			
Crinum crassicaule Baker	X						
Crinum foetidum I.Verd.		X					X
Crinum harmsii Baker					X		
Crinum macowanii Baker (C. pedicellatum)					X		
Crinum minimum Milne-Redh.							X
Crinum rautanenianum Schinz	X						
Pancratium tenuifolium A.Rich. (P. trianthum)	X				X		
Scadoxus multiflorus (Martyn) Raf. (Haemanthus multiflorus)	X	X		X	X	X	X
Anthericaceae							
Chlorophytum anceps (Baker) Kativu (Anthericum anceps)	X						X
Chlorophytum blepharophyllum Baker						X	X
Chlorophytum brachystachum Baker					X		
Chlorophytum brevipes Baker							X
Chlorophytum galpinii (Baker) Kativu var. matabelense (Baker) Kativu							X
Chlorophytum longifolium Baker (C. papillosum)	X	X					X
Chlorophytum pauper Poelln.							X
Chlorophytum psammophilum Engl.& Gilg							X
Chlorophytum recurvifolium (Baker) C.Archer & Kativu (C. polyphyllum)							X
Chlorophytum subpetiolatum (Baker) Kativu (Anthericum subpetiolatum)					X		
Aponogetonaceae							
Aponogeton desertorum A.Spreng.						X	
Aponogeton rehmannii Oliv. (A. junceus)	X			X			X
Aponogeton stuhlmannii Engl.						X	
Araceae							
Amorphophallus abyssinicus (A.Rich.) N.E.Br.				X	X	X	X
*Pistia stratiotes L.	X	X		X	X		X
Stylochaeton natalensis Schott							X
Stylochaeton puberulus N.E.Br.					X		
Arecaceae							
Borassus aethiopum Mart.						X	
Hyphaene petersiana Mart.	X	X		X	X	X	X
Phoenix reclinata Jacq.	X	X		X	X	X	X
Asparagaceae							
Asparagus africanus Lam.	X	X			X		X
Asparagus aspergillus Jessop	X					X	X
Asparagus cooperi Baker	X			X			
Asparagus exuvialis Burch.		X					
Asparagus falcatus L.							X
Asparagus laricinus Burch.							X
Asparagus longicladus N.E.Br.					X	X	
Asparagus plumosus Baker					X		
Asparagus racemosus Willd.				X	X	X	
Asparagus schroederi Engl. (A. willdemanni)		X			X		X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Asparagus setaceus (Kunth) Jessop					X	X	
Asparagus suaveolens Burch.							X
Asphodeleaceae							
Bulbine abyssinica A.Rich.	X					X	
Bulbine capitata Poelln.							X
Trachyandra arvensis (Schinz) Oberm. (Anthericum arvense)	X		X	X			
Trachyandra laxa (N.E.Br.) Oberm.	X						
Colchicaceae							
Androcymbium graminium (Cav.) MacBride		X					
Camptorrhiza strumosa (Baker) Oberm.							X
Gloriosa superba L.	X	X		X	X	X	X
Iphigenia bechuanica Baker	X						X
Ornithoglossum vulgare B.Nord. (O. viride)	X						
Commelinaceae							
Aneilema johnstonii K.Schum.				X	X		X
Aneilema pedunculosum C.B.Clarke					X		X
Aneilema plagiocapsa K.Schum.						X	
Commelina africana L.	X				X	X	X
Commelina aspera Benth.					X	X	X
Commelina benghalensis L.				X			
Commelina bracteosa Hassk.						X	
Commelina cecilae C.B.Clarke							X
Commelina diffusa Burm.f.	X	X		X			X
Commelina eckloniana Kunth	X						
Commelina erecta L.							X
Commelina fluviatilis Brenan	X			X			X
Commelina forskaolii Vahl	X	X		X	X		X
Commelina macrospatha Mildbr.	X						
Commelina purpurea Rendle						X	
Commelina pycnospatha Brenan					X		
Commelina scandens C.B.Clarke				X			
Commelina subulata Roth	X	X			X		X
Commelina welwitschii C.B.Clarke (C. rhodesiaca)						X	
Commelina zambesica C.B.Clarke	X	X		X	X		X
Cyanotis foecunda Hassk.				X			
Cyanotis lanata Benth.							X
Cyanotis longifolia Benth.						X	X
Cyanotis speciosa (L.f.) Hassk.					X		X
Floscopa flavida C.B.Clarke					X	X	
Floscopa glomerata Schult.& Schult.f. (Floscopa rivularis)	X	X		X	X	X	X
Murdannia simplex (Vahl) Brenan					X	X	X
Cyperaceae							
Abildgaardia buchananii (C.B.Clarke) Lye (Bulbostylis buchananii)							X
Abildgaardia burchellii (Ficaho & Hiern) Lye (Bulbostylis burchellii)	X						X
Abildgaardia contexta (Nees) Lye (Bulbostylis contexta)							X
Abildgaardia hispidula (Vahl) K.Lye subsp. hispidula (Fimbristylis hispidula, F. exilis)	X	X	X	X	X	X	
Abildgaardia triflora (L.) Abeyw.	X	X					
Alinula paradoxa (Cherm.) Goetgh.& Vorster (Mariscus paradoxus)				X			
Ascolepis protea Welw.					X		
Ascolepis pusilla Ridl. var. microcuspis K.Lye		X		X			
Bolboschoenus maritimus (L.) Palla (Scirpus maritimus, Schoenoplectus maritimus)	X	X	X				
Bulbostylis barbata (Rottb.) C.B.Clarke	X	X					
Bulbostylis cinnamomea (Böck) C.B.Clarke						X	
Bulbostylis densa (Wall.) Hand.-Mazz.							X
Bulbostylis hispidula (Vahl) R.W.Haines							X
Bulbostylis schoenoides (Kunth) C.B.Clarke							X
Carex cognata Kunth var. cognata	X	X					

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Cladium mariscus (L.) Pohl subsp. jamaicense (Crantz) Kük. (C. jamaicense)	X	X				X	
Courtoisia assimilis (Steud.) Maquet (Mariscus assimilis)	X						
Courtoisia cyperoides (Roxb.) Soják		X	X				X
Cyperus alopecuroides Rottb.	X	X					
Cyperus alternifolius L. subsp. flabelliformis Kük.		X			X	X	X
Cyperus amabilis Vahl	X				X		X
Cyperus articulatus L.	X	X				X	X
Cyperus clavinux C.B.Clarke	X	X					
Cyperus compressus L.	X	X	X				X
Cyperus cuspidatus Kunth							X
Cyperus denudatus L.f.	X	X			X		X
Cyperus dichroostachyus A.Rich.							X
Cyperus difformis L.	X	X		X			X
Cyperus digitatus Roxb. subsp. auricomus (Spreng.) Kük. (C. auricomus)	X	X			X	X	X
Cyperus distans L.f.	X				X		X
Cyperus dives Delile	X	X					
Cyperus esculentus L.	X	X			X	X	X
Cyperus fulgens C.B.Clarke	X						
Cyperus haspan L.	X			X	X		
Cyperus imbricatus Retz.	X	X			X		X
Cyperus kirkii C.B.Clarke	X						
Cyperus laevigatus L.	X	X	X				X
Cyperus latifolius Poir.	X	X					
Cyperus laxus Lam. subsp. sylvestris (Ridl.) Lye (C. sylvestris)					X		
Cyperus longus L.	X	X		X			X
Cyperus maculatus Boeck.							X
Cyperus margaritaceus Vahl	X	X			X	X	X
Cyperus mwinilungensis Podlech	X	X					
Cyperus niveus Retz. var. leucocephalus (Kunth) Fosberg (C. compactus)		X			X		
Cyperus obtusiflorus Vahl		X					X
Cyperus papyrus L.	X	X		X	X		
Cyperus pectinatus (C. nudicaulis)	X	X					
Cyperus rotundus L. subsp. rotundus	X						X
Cyperus schinzii Böck.							X
Cyperus sphacelatus Rottb.					X		
Cyperus sphaerospermus Schrad.	X	X		X			
Cyperus tenax Boeck.						X	X
Cyperus tenuispica Steud.	X	X					X
Cyperus usitatus Burch. var. macrobulbus Kük.							X
Cyperus usitatus Burch. var. palmatus K.Lye (C. palmatus)	X	X					
Cyperus zollingeri Steud.	X				X		X
Eleocharis acutangula (Roxb.) Schult.	X	X					X
Eleocharis atropurpurea (Retz.) J.& C.Presl	X	X					X
Eleocharis brainii Svenson	X	X					
Eleocharis caduca (Delile) Schult. (E. intricata)	X	X					X
Eleocharis dulcis (Burm.f.) Hensch.	X						
Eleocharis geniculata (L.) Roem.& Schult. (E. capitata)		X			X		X
Eleocharis kirkii C.B.Clarke					X		
Eleocharis marginulata Steud.	X	X					
Eleocharis naumanniana Böck. var. naumanniana	X	X					
Eleocharis nigrescens (Nees) Steud.	X						
Eleocharis setifolia (A.Rich.) J.Raynal		X					
Eleocharis variegata (Poir.) C.Presl	X						
Fimbristylis bisumbellata (Forssk.) Bubani	X	X			X		X
Fimbristylis complanata (Retz.) Link	X	X					
Fimbristylis dichotoma (L.) Vahl	X	X			X		X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Fimbristylis ferruginea (L.) Vahl		X					X
Fimbristylis longiculmis Steud.	X						
Fimbristylis miliacea (L.) Vahl		X					
Fimbristylis squarrosa Vahl	X	X			X		X
Fuirena ciliaris (L.) Roxb.	X	X		X			X
Fuirena coerulescens Steud.	X	X					
Fuirena leptostachya Oliv. var. leptostachya	X	X		X			X
Fuirena pubescens Kunth	X	X			X		
Fuirena stricta Steud. (F. chlorocarpa)	X						
Fuirena umbellata Rottb.	X	X		X	X		X
Isolepis hystrix (Thunb.) Nees (Scirpus hystrix)				X			
Isolepis sepulcralis Steud.	X						
Kyllinga alba Nees	X	X			X	X	X
Kyllinga brevifolia Rottb. subsp. intricata (Cherm.) J.-P.Lebrun & Stork (Cyperus brevifolius subsp. intricatus)	X						
Kyllinga bulbosa P.Beauv.		X					
Kyllinga erecta Schumach.& Thonn. subsp. erecta (Cyperus erectus subsp. erectus)	X	X					X
Kyllinga erecta Schumach.& Thonn. var. polyphylla (Kunth) Hooper (K. polyphylla, K. aromatica)	X						
Kyllinga intricata Cherm. (K. brevifolia)	X	X					X
Kyllinga odorata Vahl		X					
Kyllinga pumila Michx.							X
Kyllinga squamulata Vahl					X		
Kyllingiella microcephala (Steud.) R.W.Haines & Lye (Scirpus microcephalus)	X	X					X
Lipocarpha atra Ridl.	X						
Lipocarpha chinensis (Osbeck) Kern (L. senegalensis)	X						
Lipocarpha hemisphaerica (Roth) Goetgh.) (L. isolepis, Scirpus isolepis)	X	X					X
Lipocarpha rehmannii (Ridl.) Goetgh.		X					
Mariscus albomarginatus C.B.Clarke (M. indecorus)				X			
Mariscus aristatus (Rottb.) Cherm.	X	X			X		
Mariscus breviradius Vorster ms							X
Mariscus chersinus N.E.Br.	X	X					
Mariscus cylindristachyus Steud (M. umbellatus)				X			
Mariscus dregeanus Kunth	X	X					X
Mariscus dubius (Rottb.) Fischer	X			X	X		X
Mariscus fulgens (C.B.Clarke) Vorster							X
Mariscus laxiflorus Turrill	X	X		X		X	X
Mariscus leptophyllus (Hochst.) C.B.Clarke							X
Mariscus marlothii (Boeck.) C.B.Clarke				X			
Mariscus pseudovestitus C.B.Clarke					X		X
Mariscus squarrosus (L.) C.B.Clarke (Cyperus aristatus)	X	X	X		X		
Mariscus sumatrensis (Retz.) Koyama (M. sieberanus, M. macrocarpus)				X			X
Monandrus hamulosus (M.Bieb.) Vorster ms (Mariscus hamulosus, M. squarrosus)	X	X		X			X
Oxycaryum cubense (Papp.& Kunth) Lye (Scirpus cubensis)	X	X					
Pycreus aethiops (Ridl.) C.B.Clarke	X						
Pycreus capillifolius (A.Rich.) C.B.Clarke	X						
Pycreus chrysanthus (Böck.) C.B.Clarke	X						
Pycreus flavescens (L.) Rchb. (Cyperus flavescens)	X	X					
Pycreus macranthus (Böck.) C.B.Clarke	X	X					X
Pycreus macrostachyos (Lam.) J.Raynal (Cyperus tremulus)	X	X					
Pycreus mundtii Nees	X	X					
Pycreus nitidus (Lam.) J.Raynal	X	X					
Pycreus okavangensis Podl.	X	X					
Pycreus pelophilus (Ridl.) C.B.Clarke (Cyperus pelophilus)	X	X					X
Pycreus polystachyos (Rottb.) P.Beauv. var. laxiflorus Benth.	X	X					X
Pycreus pumilis (L.) Nees	X	X					

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Pycreus rehmannianus C.B.Clarke				X			
Pycreus unioloides (R.Br.) Urb.	X	X					X
Rhynchospora angolensis Turrill (R. africana)	X						
Rhynchospora arechavaletae Böck.				X			
Rhynchospora brevirostris Griseb.	X	X					
Rhynchospora brownii Roem.& Schult.	X						
Rhynchospora candida (Nees) C.B.Clarke	X						
Rhynchospora corymbosa (L.) Britton	X	X		X			
Rhynchospora holoschoenoides (Rich.) Herter (R. cyperoides, R. mauritii)	X	X		X	X		X
Rhynchospora perrieri Cherm.	X						X
Schoenoplectus articulatus (L.) Palla (Scirpus articulatus)	X	X					
Schoenoplectus confusus (N.E.Br.) Lye var. rogersii (N.E.Br.) Lye	X						
Schoenoplectus corymbosus (Roem.& Schult.) J.Raynal (Scirpus inclinatus)	X	X		X			X
Schoenoplectus erectus (Poir.) J.Raynal (Scirpus uninodis, S. erectus)	X	X		X			X
Schoenoplectus lateriflorus (J.F.Gmel.) Lye	X	X					X
Schoenoplectus microglumis Lye		X					
Schoenoplectus muricinux (C.B.Clarke) J.Raynal (Scirpus muricinux)	X	X					X
Schoenoplectus roylei (Nees) Ovcz.& Czukav.		X					X
Schoenoplectus senegalensis (Steud.) J.Raynal (Scirpus jacobii)	X	X					X
Schoenoplectus SRGH sp. no.2		X					
Schoenoplectus subulatus (Vahl) Lye	X						
Scirpus nodus Rottb.				X			
Scleria bulbifera A.Rich. var. bulbifera (S. verdickii)		X				X	X
Scleria distans Poir.	X	X					
Scleria dregeana Kunth	X	X					
Scleria flexuosa Böck.	X						
Scleria foliosa A.Rich.		X			X		X
Scleria lacustris Sauvalle	X						
Scleria melanomphala Kunth	X	X					
Scleria schimperiana Boeck.		X					X
Scleria unguiculata E.A.Robinson	X						
Scleria veseyfitzgeraldii E.A.Robinson	X						
Scleria woodii C.B.Clarke (S. striatonux)		X					
Websteria confervoides (Poir.) Hooper	X						
Dioscoreaceae							
Dioscorea asteriscus Burkill	X			X	X	X	X
Dioscorea bulbifera (L.) L.						X	
Dioscorea cochleari-apiculata De Wild.					X		X
Dioscorea dumetorum (Kunth) Pax					X	X	
Dioscorea hirtiflora Benth.					X	X	X
Dioscorea quartiniana A.Rich.					X	X	X
Dioscorea sylvatica Eckl.					X	X	
Dracaenaceae							
Sanseveria cylindrica Hook.						X	
Sansevieria aethiopica Thunb. (S. scabrifolia)	X	X		X		X	
Sansevieria kirkii Baker					X		X
Sansevieria pearsonii N.E.Br. (S. desertii)	X				X	X	X
Eriocaulaceae							
Eriocaulon abyssinicum Hochst. (E. gilgianum)					X		X
Eriocaulon cinereum R.Br.	X						X
Eriocaulon fuscum S.M.Phillips							X
Eriocaulon setaceum L.	X						
Eriocaulon welwitschii Rendle	X						X
Eriospermaceae							
Eriospermum abyssinicum Baker					X	X	
Eriospermum bakerianum Schinz	X						
Eriospermum linearifolium Baker	X						

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Eriospermum porphyrovalve Baker							X
Hyacinthaceae							
Albuca angolensis Baker	X			X	X		
Albuca chlorantha Baker						X	
Albuca melleri (Baker) Baker	X				X		
Dipcadi glaucum (Ker-Gawl.) Baker (D. magnum)	X				X		
Dipcadi longifolium (Lindl.) Baker	X	X					
Dipcadi platyphyllum Baker							X
Dipcadi viride (L.) Moench							X
Ledebouria revoluta (L.f.) Jessop	X						X
Ledebouria zambesiaca (Baker) S.Venter							X
Ornithogalum ornithogaloides (Kunth) Oberm.	X						
Ornithogalum seineri (Engl.& Krause) Oberm.	X						
Ornithogalum tenuifolium F.Delaroche							X
Scilla hyacinthina (Roth.) J.F.Macbr. (S. indica)					X		
Scilla nervosa (Burch.) Jessop (S. rigidifolia)						X	
Urginea altissima (L.f.) Baker					X		
Urginea sanguinea Schinz	X	X			X		
Hydrocharitaceae							
Hydrilla verticillata (L.f.) Royle					X		
Lagarosiphon cordofanus Casp. (L. crispus)	X			X			X
Lagarosiphon ilicifolius Oberm.	X	X		X			X
Lagarosiphon major (Ridl.) V.A.Wager		X					X
Lagarosiphon muscoides Harv.	X	X	X	X			X
Ottelia kunenensis (Gürke) Dandy	X			X			
Ottelia muricata (C.H.Wright) Dandy	X	X		X			
Ottelia ulvifolia (Planch.) Walp.	X	X		X	X	X	X
Vallisneria spiralis L. (V. aethiopica)	X	X		X			X
Hypoxidaceae							
Hypoxis angustifolia Lam.						X	X
Hypoxis goetzei Harms						X	
Iridaceae							
Gladiolus atropurpureus Baker					X	X	
Gladiolus dalenii Van Geel subsp. dalenii (G. psittacinus)	X	X			X	X	X
Gladiolus huillensis (Baker) Goldblatt (Petamenes vaginifer, Homoglossum)						X	
Gladiolus magnificus (Harms) Goldblatt (Oenostachys zambesiacus)	X						X
Gladiolus melleri Baker						X	X
Gladiolus permeabilis D.Delaroche						X	
Gladiolus unguiculatus Baker					X		X
Lapeirousia erythrantha (Klatt) Baker (L. rhodesiana)					X		X
Lapeirousia littoralis Baker subsp. caudata (Schinz) Goldblatt	X	X					
Lapeirousia odoratissima Baker					X		X
Lapeirousia schimperi (Asch.& Klatt) Milne-Redh. (L. porphyrosiphon)		X		X	X		X
Lapeirousia setifolia Harms							X
Moraea carsonii Baker						X	
Juncaceae							
Juncus effusus L.							X
Juncus rigidus Desf.	X	X					
Lemnaceae							
Lemna aequinoctialis Welw. (L. perpusilla)	X	X	X	X			X
Spirodela polyrrhiza (L.) Schleid.	X	X					
Wolffia arrhiza (L.) Wimm.	X	X					
Wolffiella welwitschii (Hegelm.) Monod	X	X					X
Limnocharitaceae							
Butomopsis latifolia (D.Don) Kunth							X
Najadaceae							
Najas horrida Magnus		X		X			X
Najas marina L. var. armata (Lindb.f.) Horn (N. pectinata)	X	X		X	X		

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Orchidaceae							
Acampe pachyglossa Rchb.f.						X	
Aerangis kotschyana (Rchb.f.) Schltr.						X	
Ansellia africana Lindl. (A. gigantea)	X			X	X		X
Bonatea speciosa (L.f.) Willd.							X
Bonatea steudneri (Rchb.f.) T.Dur.& Schinz							X
Calanthe sylvatica (Thouars) Lindl. (C. corymbosa)					X		X
Cyrtorchis arcuata (Lindl.) Schltr.						X	
Disa welwitschii Rchb.f.						X	
Eulophia alta (L.) Fawc.& Rendle							X
Eulophia angolensis (Rchb. f.) Summerh.	X				X	X	
Eulophia aurantiaca Rolfe						X	
Eulophia cucullata (Sw.) Steud.					X	X	X
Eulophia flavopurpurea (Rchb.f.) Rolfe						X	
Eulophia gonychila Schltr.						X	
Eulophia guineensis Lindl. (E. quartiniana)					X		
Eulophia hereroensis Schltr.				X			X
Eulophia holubii Rolfe	X						
Eulophia latilabris Summerh.	X						
Eulophia leachii A.V.Hall							X
Eulophia livingstoniana (Rchb.f.) Schltr.					X	X	X
Eulophia pyrophila (Rchb.f.) Summerh.		X					
Eulophia schweinfurthii Kraenzl. (E. chrysops)		X					X
Eulophia speciosa (Lindl.) Bolus (E. brevisepala, E. wakefieldii)					X	X	X
Eulophia stachyodes Rchb.f.							X
Eulophia streptopetala Lindl.							X
Eulophia walleri (Rchb.f.) Kraenzl.	X			X		X	X
Habenaria filicornis Lindl. (H. chlorotica)	X	X				X	
Habenaria ichneumonea (Sw.) Lindl.	X				X		
Habenaria malacophylla Rchb.f.							X
Habenaria pasmithii G.Will.	X						
Habenaria schimperiana A.Rich.	X						X
Microcoelia exilis Lindl.						X	
Nervilia bicarinata (Blume) Schltr.							X
Nervilia kotschyi (Rchb.f.) Schltr. var. kotschyi							X
Platycoryne buchananiana (Kraenzl.) Rolfe						X	X
Satyrium anomalum Schltr.						X	
Satyrium kitimboense Kraenzl.						X	
Tridactyle tridactylites (Rolfe) Schltr.						X	
Zeuxine africana Rchb.f.	X						
Piperaceae							
Peperomia blanda (Jacq.) Kunth var. leptostachya (Hook.& Arn.) Düll (P. arabica)					X		X
Peperomia pellucida (L.) Kunth							X
Poaceae							
Acroceras macrum Stapf	X	X		X	X	X	X
*Aira caryophyllea L.				X			
Alloteropsis cimicina (L.) Stapf	X	X		X	X	X	X
Alloteropsis semialata (R.Br.) Hitch.						X	
Andropogon brazzae Franch.	X	X			X		X
Andropogon chinensis (Nees) Merr. (A. schinzii, A. lindiensis)		X				X	X
Andropogon eucomus Nees	X	X		X	X	X	X
Andropogon fastigiatus Sw.		X					X
Andropogon gayanus Kunth var. polycladus (Hack.) Clayton (incl. var. squamulatus)	X	X	X		X	X	X
Andropogon huillensis Rendle	X	X					
Andropogon laxatus Stapf	X	X					
Andropogon ligulatus (Stapf) Clayton							X
Andropogon perligulatus Steud.					X		

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Andropogon schirensis A.Rich.	X	X			X	X	X
Andropogon textilis Welw.					X		
Anthephora elongata De Wild. (A. acuminata)						X	
Anthephora pubescens Nees	X	X	X				
Anthephora trunata Robyns (A. gracilis)						X	
Aristida adscensionis L. (A. curvata, A. submucronata)	X	X	X	X		X	X
Aristida congesta Roem.& Schult.	X		X				X
Aristida cumingiana Trin.& Rupr.						X	
Aristida hordeacea Kunth	X	X			X		X
Aristida junciformis Trin.& Rupr. subsp. welwitschii (Rendle) Melderis	X	X					X
Aristida meridionalis Henrard	X	X	X	X	X		X
Aristida mollissima Pilg.	X						X
Aristida pilgeri Henrard	X	X	X		X	X	X
Aristida rhiniochloa Hochst.		X			X		X
Aristida scabrivalvis Hack. subsp. borumensis (Henrard) Melderis	X						X
Aristida scabrivalvis Hack. subsp. contracta (De Winter) Melderis	X						X
Aristida scabrivalvis Hack. subsp. scabrivalvis		X					X
Aristida stipitata Hack. subsp. graciliflora (Pilg.) Melderis (A. graciliflora)	X	X	X			X	X
Aristida stipitata Hack. subsp. ramifer (Pilg.) Melderis (A. ramifera)						X	
Aristida stipitata Hack. subsp. robusta (Stent & J.M.Rattray) Melderis	X	X					X
Aristida stipitata Hack. subsp. spicata (DeWinter) Meld.	X						
Aristida stipitata Hack. subsp. stipitata	X				X		
Aristida stipoides Lam.	X				X	X	X
Aristida vestita Thunb.							X
Arthraxon lancifolius (Trin.) Hochst.							X
Arundinella nepalensis					X		
Bewsia biflora (Hack.) Gooss.						X	X
Bothriochloa bladhii (Retz.) S.T.Blake	X	X			X	X	X
Bothriochloa insculpta (A.Rich.) A.Camus	X			X		X	X
Bothriochloa radicans (Lehm.) A. Camus		X	X	X	X	X	
Brachiaria arrecta (T.Dur.& Schinz) Stent	X	X					
Brachiaria bovonei (Chiov.) Robyns						X	X
Brachiaria brizantha (A.Rich.) Stapf	X				X	X	X
Brachiaria deflexa (Schumach.) Robyns	X		X	X		X	X
Brachiaria dictyoneura (Fig.& De Not.) Stapf				X			
Brachiaria dura Stapf	X			X		X	X
Brachiaria eminii (Mez) Robyns						X	
Brachiaria eruciformis (J.E.Sm.) Griseb.	X	X				X	X
Brachiaria grossa Stapf						X	
Brachiaria humidicola (Rendle) Schweick.	X	X			X		X
Brachiaria jubata (Fig.& De Not.) Stapf		X					
Brachiaria marlothii (Hack.) Stent		X					
Brachiaria nigropedata (Ficalho & Hiern) Stapf	X	X		X	X		X
Brachiaria ramosa (L.) Stapf					X		
Brachiaria rugulosa Stapf	X	X				X	
Brachiaria serrata (Thunb.) Stapf					X	X	
Brachiaria xantholeuca (Schinz) Stapf							X
Cenchrus biflorus Roxb.				X	X	X	
Cenchrus ciliaris L.	X	X	X	X		X	X
Chloridion cameronii Stapf						X	
Chloris gayana Kunth	X	X		X	X	X	X
Chloris pycnothrix Trin.					X	X	X
Chloris roxburghiana Schult.		X					
Chloris virgata Sw.	X	X	X	X	X	X	X
Chrysopogon serrulatus Trin. (C. montanus)			X		X		X
Cleistachne sorghoides Benth.						X	
Crinipes gynoglossa		X					
Cymbopogon caesius (Hook.& Arn.) Stapf (C. excavatus)	X	X		X	X	X	X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Cymbopogon densiflorus (Steud.) Stapf						X	
Cymbopogon giganteus (Hochst.) Chiov.						X	
Cymbopogon nardus (L.) Rendle (C. validus)					X		
Cymbopogon pospischilii (K.Schum.) C.E.Hubb. (C. plurinodis)		X	X				
Cynodon dactylon (L.) Pers.	X	X	X	X	X	X	X
Dactyloctenium aegyptium (L.) Willd.	X		X	X		X	X
Dactyloctenium giganteum Fisher & Schweick.	X	X		X	X	X	X
Danthoniopsis petiolata (J.B.Phipps) Clayton							X
Danthoniopsis pruinosa C.E.Hubb.						X	X
Danthoniopsis viridis (Rendle) C.E.Hubb.							X
Dichanthium annulatum (Forssk.) Stapf var. papillosum (A.Rich.) de Wet & Harlan (D. papillosum)		X	X			X	X
Diectomis fastigata (Sw.) Kunth (=Andropogon fastigiatus)					X	X	
Digitaria acuminatissima Stapf	X				X		X
Digitaria angolensis Rendle					X	X	
Digitaria brazzae (Franch.) Stapf	X	X				X	
Digitaria ciliaris (Retz.) Koeler (D. adscendens)	X					X	
Digitaria comifera Pilg. (D. lunularis)					X		X
Digitaria compressa Stapf (D. homblei)						X	
Digitaria debilis (Desf.) Willd.	X	X					X
Digitaria diagonalis (Nees) Stapf						X	
Digitaria eriantha Steud. (D. pentzii)	X	X	X	X	X	X	X
Digitaria eylesii C.E.Hubb.	X						
Digitaria gayana (Kunth) A.Chev.						X	X
Digitaria gazensis Rendle				X	X	X	
Digitaria maitlandii Stapf & C.E.Hubb.							X
Digitaria maniculata Stapf	X	X		X		X	X
Digitaria milanjiana (Rendle) Stapf (D. seriata, D. setivalva)	X	X	X	X	X	X	X
Digitaria monodactyla (Nees) Stapf						X	
Digitaria perrottetii (Kunth) Stapf	X	X	X		X		X
Digitaria remotigluma (De Winter) Clayton	X	X		X	X	X	
Digitaria sanguinalis (L.) Scop.					X		X
Digitaria scalarum (Schweinf.) Chiov.	X	X					
Digitaria ternata (A.Rich.) Stapf					X	X	X
Digitaria velutina (Forssk.) P.Beauv.	X						X
Diheteropogon amplectens (Nees) Clayton (Andropogon amplectens)						X	
Diheteropogon amplectens (Nees) Clayton var. amplectens		X			X		X
Dinebra retroflexa (Vahl) Panz. var. condensata S.M.Phillips		X					X
Echinochloa colona (L.) Link	X	X	X	X	X	X	X
Echinochloa crusgalli (L.) P.Beauv.				X			
Echinochloa haploclada (Stapf) Stapf	X						
Echinochloa jubata Stapf	X	X		X			X
Echinochloa pyramidalis (Lam.) Hitchc.& Chase (E. holubii)	X	X		X	X	X	X
Echinochloa stagnina (Retz.) P.Beauv.	X	X		X	X	X	X
Echinochloa ugandensis Snowden & C.E.Hubb.							X
Eleusine africana Kenn.-OByrne		X		X	X	X	X
Elionurus muticus (Spreng.) Kunth (Elyonurus argenteus)	X				X	X	X
Elionurus tripsacoides Willd. (E. trapnellii)						X	
Elymandra grallata (Stapf) Clayton	X	X				X	X
Elytrophorus globularis Hack. (E. africanus)				X			X
Elytrophorus spicatus (Willd.) A.Camus				X		X	X
Enneapogon cenchroides (Roem. & Schult.) C.E.Hubb.	X	X	X				X
Enneapogon desvauxii P.Beauv. (E. brachystachyus)	X	X	X				
Enneapogon scoparius Stapf		X	X				
Enteropogon macrostachyus (A.Rich.) Benth. (E. simplex)	X				X	X	X
Enteropogon rupestris (J.A.Schmidt) A.Chev.		X					
Entolasia imbricata Stapf	X			X	X	X	
Eragrostis aethiopica Chiov.					X	X	
Eragrostis amabilis (L.) Hook.& Arn. (E. tenella)	X	X				X	X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Eragrostis arenicola C.E.Hubb.						X	
Eragrostis aspera (Jacq.) Nees (E. buchananii)	X			X	X	X	X
Eragrostis atrovirens (Desf.) Steud.	X					X	X
Eragrostis barbinodis Hack.			X				
Eragrostis barrelieri Daveau							X
Eragrostis brainii (Stent) Launert					X	X	X
Eragrostis capensis (Thunb.) Trin.					X	X	
Eragrostis chapelieri (Kunth) Nees						X	X
Eragrostis cilianensis (All.) Janch.	X	X			X	X	X
Eragrostis ciliaris (L.) R.Br.					X		X
Eragrostis cimicina Launert	X			X			X
Eragrostis crassinervis Hack.							X
Eragrostis curvula (Schrad.) Nees					X		X
Eragrostis cylindriflora Hochst. (E. rigidior, E. trichophora, E. atherstonei)	X	X	X	X	X	X	X
Eragrostis dinteri Stapf	X			X			
Eragrostis echinochloidea Stapf	X	X	X	X			X
Eragrostis friesii Pilg.		X					X
Eragrostis gangetica (Roxb.) Steud.	X	X				X	X
Eragrostis glandulosipedata De Winter							X
Eragrostis glischra Launert							X
Eragrostis habrantha Rendle	X	X					X
Eragrostis heteromera Stapf	X						X
Eragrostis hierniana Rendle					X		
Eragrostis hispida K.Schum						X	
Eragrostis inamoena K.Schum.	X	X		X	X		X
Eragrostis japonica (Thunb.) Trin. (E. namaquensis, Diandrochloa namaquensis)	X		X			X	X
Eragrostis lappula Nees	X	X		X	X	X	X
Eragrostis lehmanniana Nees							X
Eragrostis membranacea Schinz	X	X		X			
Eragrostis mildbraedii Pilg.	X						
Eragrostis namaquensis Nees	X		X				
Eragrostis nindensis Ficalho & Hiern	X						X
Eragrostis pallens Hack.	X	X		X	X		X
Eragrostis patens Oliv.				X	X	X	X
Eragrostis patentipilosa Hack. (E. pseudosclerantha)			X				
Eragrostis pilosa (L.) P.Beauv.	X			X		X	
Eragrostis porosa Nees	X	X		X			
Eragrostis pusilla Hack.							X
Eragrostis rehmanniana Nees						X	
Eragrostis rogersii C.E.Hubb.					X		X
Eragrostis rotifer Rendle	X	X		X	X		X
Eragrostis sabulosa (Steud.) Schweick.	X						
Eragrostis sarmentosa (Thunb.) Trin.	X	X					
Eragrostis sclerantha Nees						X	
Eragrostis stapfii De Winter	X			X			X
Eragrostis superba Peyr.	X	X	X	X	X	X	X
Eragrostis tenuifolia (A.Rich.) Steud.							X
Eragrostis tremula Steud.	X				X	X	X
Eragrostis trichophora Coss.& Durieu				X			
Eragrostis venustula Cope							X
Eragrostis viscosa (Retz.) Trin.	X	X	X	X	X	X	X
Eriochloa fatmensis (Hochst.& Steud.) Clayton							X
Eriochloa macclounii Stapf		X				X	X
Eriochloa meyeriana (Nees) Pilg. (Panicum meyerianum)		X	X			X	X
Eriochrysis pallida Munro	X						
Eulalia aurea (Bory) Kunth (E. geniculata)	X	X		X		X	X
Eulalia villosa (Thunb.) Nees					X		

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Hackelochloa granularis (L.) Kuntze							X
Hemarthria altissima (Poir.) Stapf & C.E.Hubb. (Rendlia pseudoharpechloa)	X	X		X		X	X
Heteropogon contortus (L.) Roem.& Schult.	X	X	X	X	X	X	X
Heteropogon melanocarpus (Elliott) Benth.		X			X	X	X
Hylebates cordatus Chippind.						X	
Hyparrhenia anamesa Clayton							X
Hyparrhenia bracteata (Willd.) Stapf						X	
Hyparrhenia collina (Pilg.) Stapf						X	X
Hyparrhenia dichroa (Steud.) Stapf					X	X	
Hyparrhenia diplandra (Hack.) Stapf						X	
Hyparrhenia filipendula (Hochst.) Stapf var. filipendula		X		X	X	X	X
Hyparrhenia finitima (Hochst.) Stapf					X		
Hyparrhenia hirta (L.) Stapf		X					
Hyparrhenia newtonii (Hack.) Stapf						X	
Hyparrhenia nyassae (Rendle) Stapf						X	X
Hyparrhenia poecilotricha (Hack.) Stapf							X
Hyparrhenia rudis Stapf							X
Hyparrhenia rufa (Nees) Stapf	X	X			X	X	X
Hyparrhenia variabilis Stapf						X	
Hyperthelia dissoluta (Steud.) Clayton	X	X		X	X	X	X
Imperata cylindrica (L.) Raeusch.	X	X		X	X	X	X
Ischaemum afrum (J.F.Gmel.) Dandy (I. brachyatherum)		X					X
Ischaemum fasciculatum Brongn. (I. arcuatum)	X	X		X	X		X
Jardinea angolensis (Rendle) Stapf						X	
Leersia denudata Launert	X						
Leersia friesii Melderis	X						
Leersia hexandra Sw.	X	X		X	X	X	X
Leptocarydion vulpiastrum (De Not.) Stapf	X	X		X	X	X	X
Leptochloa fusca (L.) Kunth (Diplachne fusca)	X	X	X		X	X	X
Leptochloa gigantea (Launert) Cope & N.Snow (Diplachne gigantea)	X						
Leptochloa uniflora A.Rich.		X				X	X
Leptochloa uniflora A.Rich. (Craspedorhachis uniflora)					X		
Lintonia nutans Stapf		X					
Lophacme digitata Stapf						X	
Loudetia flavida (Stapf) C.E.Hubb.		X				X	X
Loudetia lanata (Stent & J.M.Rattray) C.E.Hubb.				X			X
Loudetia simplex (Nees) C.E.Hubb.	X	X		X	X	X	X
Megaloprotachne albescens C.E.Hubb.		X					X
Megastachya mucronata (Poir.) P.Beauv.						X	
Melinis ambiqua Hack. subsp. longicauda (Mez) Zizka (M. longicauda)						X	
Melinis kallimorpha (Clayton) Zizka							X
Melinis longiseta (A.Rich.) Zizka subsp. bellespicata (Rendle) Zizka				X			X
Melinis longiseta (A.Rich.) Zizka subsp. longiseta							X
Melinis macrochaeta Stapf & C.E.Hubb.						X	
Melinis nerviglumis (Franch.) Zizka (Rhynchelytrum nerviglume, R. nyassanum, R. rhodesianum, R. setifolium)						X	
Melinis repens (Willd.) Zizka subsp. grandiflora (Hochst.) Zizka (Rhynchelytrum grandiflorum)	X	X		X	X	X	X
Melinis repens (Willd.) Zizka subsp. repens	X	X		X	X	X	
Melinis subglabra Mez (Rhynchelytrum eylesii, R. subglabrum)					X	X	
Microchloa caffra Nees							X
Microchloa indica (L.f.) P.Beauv.							X
Microchloa kunthii Desv.	X					X	
Miscanthus junceus (Stapf) Pilg. (Miscanthidium teretifolium, M. violaceum)	X	X		X	X	X	X
Monocymbium ceresiiforme (Nees) Stapf	X			X	X	X	
Odyssea paucinervis (Nees) Stapf	X	X	X				X
Oplismenus burmannii (Retz.) P.Beauv.	X	X		X			X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Oplismenus hirtellus (L.) P.Beauv.					X		X
Oropetium capense Stapf		X					
Oryza barthii A.Chev. (O. breviligulata)	X	X			X	X	
Oryza longistaminata A.Chev.& Roehr.	X	X		X	X		X
Oryzidium barnardii C.E.Hubb.& Schweick.	X	X		X		X	
Oxytenanthera abyssinica (A.Rich.) Munro						X	X
Panicum atrosanguineum A.Rich.	X						X
Panicum brevifolium L.				X			
Panicum coloratum L. var. coloratum (P. swynnertonii)	X	X	X	X	X	X	X
Panicum coloratum L. var. makarikariense Gooss.				X			
Panicum dregeanum Nees	X	X				X	X
Panicum fluviicola Steud. (P. aphanoneurum)	X	X		X	X		
Panicum graniflorum Stapf	X					X	X
Panicum heterostachyum Hack.					X	X	X
Panicum hymeniochilum Nees	X						
Panicum kalaharense Mez	X			X	X		X
Panicum madipirense Mez					X		
Panicum maximum Jacq.	X	X		X	X	X	X
Panicum natalense Hochst.							X
Panicum nigromarginatum Robyns						X	
Panicum novemnerve Stapf						X	
Panicum parvifolium Lam.	X						
Panicum phragmitoides Stapf							X
Panicum pilgerianum (Schweick.) Clayton	X						
Panicum porphyrrhizos Steud.		X					
Panicum repens L.	X	X		X	X		X
Panicum repentellum Napper	X						
Panicum subalbidum Kunth (P. glabrescens)	X	X		X	X	X	X
Panicum trichonode Launert & Renvoize	X	X		X			X
Panicum zambesiense Renvoize							X
Paspalidium obtusifolium (Delile) N.D.Simpson (P. platyrrhachis)	X	X					
*Paspalum distichum L.							X
Paspalum scrobiculatum L. (P. commersonii, P. orbiculare, P. polystachyum)	X	X			X	X	X
*Pennisetum glaucum (L.) R.Br. (P. typhoides)				X			
Pennisetum macrourum Trin. (P. glaucocladum)	X	X		X	X	X	X
Pennisetum polystachion Schult.					X	X	
Pennisetum purpureum Schumach.						X	X
*Pennisetum setaceum (Forssk.) Chiov.							X
Pennisetum unisetum (Nees) Benth. (Beckeropsis uniseta)						X	
Perotis patens Gand.	X	X	X	X	X	X	X
Perotis vaginata Hack.					X	X	X
Phragmites australis (Cav.) Trin.	X	X	X	X	X		X
Phragmites mauritianus Kunth	X	X	X	X	X	X	X
Phyllorachis sagittata Trimen						X	
Pogonarthria fleckii (Hack.) Hack.	X	X	X	X	X	X	X
Pogonarthria refracta Launert						X	
Pogonarthria squarrosa (Roem.& Schult.) Pilg.	X	X		X	X	X	X
Pseudobrachiaria deflexa (Schumach.) Launert	X	X		X	X		
Rottboellia cochinchinensis (Lour.) Clayton (R. exaltata)	X	X		X		X	X
Sacciolepis africana C.E.Hubb.& Snowden	X					X	
Sacciolepis indica (L.) Chase (S. gracilis, S. auriculata)						X	
*Sacciolepis interrupta (Willd.) Stapf	X	X					
Sacciolepis micrococca Mez						X	
Sacciolepis spiciformis (A.Rich.) Stapf (S. huillensis)						X	X
Sacciolepis transbarbata Stapf						X	
Sacciolepis typhura (Stapf) Stapf (S. glaucescens)	X	X		X	X	X	X
Sartidia angolensis (C.E.Hubb.) De Winter						X	X
Schizachyrium brevifolium (Sw.) Büse					X		X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Schizachyrium exile (Hochst.) Pilg. (S. inclusum)		X					X
Schizachyrium jeffreysii (Hack.) Stapf	X	X			X	X	X
Schizachyrium jeffreysii (Hack.) Stapf (Andropogon arthropogon)					X		
Schizachyrium sanguineum (Retz.) Alston	X	X		X		X	
Schmidtia kalahariensis Stent	X						
Schmidtia pappophoroides J.A.Schmidt	X	X	X	X	X		X
Sehima ischaemoides Forssk.		X					X
Setaria homonyma (Steud.) Chiov.	X			X	X	X	X
Setaria incrassata (Hochst.) Hack. (S. eylesii, S. mombassana, S. phanerococca, S. porphyrantha)		X			X	X	X
Setaria lindenbergiana (Nees) Stapf					X		
Setaria longiseta P.Beauv.					X	X	
Setaria megaphylla (Steud.) T.Dur.& Shinz.						X	
Setaria pseudaristata (Peter) Pilg.		X					
Setaria pumila (Poir.) Roem.& Schult.	X		X			X	X
Setaria sagittifolia (A.Rich.) Walp.				X			X
Setaria sagittifolia (Cymbosetaria sagittifolia)	X	X		X			
Setaria sphacelata (Schumach.) Moss (S. palustris, S. anceps, S. angustifolia, S. pallide-fusca)	X	X	X	X	X	X	X
Setaria verticillata (L.) P.Beauv.	X	X	X	X	X	X	X
Sorghastrum friesii (Pilg.) Pilg.	X	X		X		X	X
Sorghastrum nudipes Nash	X	X			X		
Sorghum bicolor (L.) Moench subsp. arundinaceum (Desv.) de Wet & Harlan (S. verticilliflorum)	X	X				X	X
*Sorghum halepense (L.) Pers.							X
Sorghum versicolor Andersson	X	X				X	X
Sporobolus acinifolius Stapf (S. tenellus)	X	X	X				X
Sporobolus africanus (Poir.) A.Robyns & Tournay	X				X		X
Sporobolus bechuanicus Gooss.		X					
Sporobolus consimilis Fresen.							X
Sporobolus cordofanus (Steud.) Coss. (S. albomarginatus)					X	X	
Sporobolus coromendelianus (Retz.) Kunth				X			
Sporobolus festivus A.Rich.	X	X			X	X	X
Sporobolus fimbriatus (Trin.) Nees (S. macranthelus)	X	X		X	X	X	X
Sporobolus ioclados (Trin.) Nees (S. rangei Pilg.)	X	X	X	X	X		X
Sporobolus micranthus (Steud.) T.Dur.& Schinz (S. psammophilus)					X		
Sporobolus molleri Hack.							X
Sporobolus myrianthus Benth. (S. angustifolius)						X	
Sporobolus natalensis (Steud.) T.Dur.& Schinz	X						
Sporobolus panicoides A.Rich.		X				X	X
Sporobolus pyramidalis P.Beauv.	X	X		X	X	X	X
Sporobolus spicatus (Vahl) Kunth	X	X	X	X			X
Sporobolus stapfianus Gand.						X	
Sporobolus virginicus (L.) Kunth							X
Stereochlaena cameronii (Stapf) Pilg.							X
Stipagrostis hirtigluma (Trin.& Rupr.) De Winter subsp. patula (Hack.) De Winter	X			X			
Stipagrostis uniplumis (Licht.) De Winter (incl. vars.)	X	X	X	X			X
Themeda triandra Forssk.	X	X	X	X		X	X
Thyrsia huillensis Stapf (=Phacelurus)						X	
Trachypogon spicatus (L.f.) Kuntze	X			X	X	X	X
Trachypon plumosus				X			
Tragus berteronianus Schult.	X		X	X	X		X
Tragus racemosus (L.) All.	X						
Tricholaena monachne (Trin.) Stapf & C.E.Hubb.		X	X	X	X	X	X
Trichoneura grandiglumis (Nees) Ekman	X			X	X	X	
Trichopteryx fruticulosa Nees						X	
Tripogon minimus (A.Rich.) Steud. (T. abyssinicus)					X		X
Triraphis purpurea Hack. (T. fleckii)	X		X				

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Triraphis schinzii Hack.	X	X			X	X	X
Tristachya lualabaensis (De Wild.) J.B.Phipps (Loudetia hitchcockii)		X		X	X	X	X
Tristachya nodiglumis K.Schum.	X			X			
Tristachya rehmannii Hack.	X					X	X
Tristachya superba (De Not.) Schweinf.& Asch. (Loudetia superba)	X			X	X	X	X
Urelytrum agropyroides (Hack.) Hack.							X
Urelytrum henrardii Chippind.						X	
Urochloa brachyura (Hack.) Stapf	X	X		X	X		X
Urochloa mosambicensis (Hack.) Dandy (U. pullulans)	X	X			X	X	X
Urochloa oligotricha (Fig.& De Not.) Henr. (U. bulbodes)		X				X	X
Urochloa trichopus (Hochst.) Stapf	X	X	X	X	X		X
Vetiveria nigritana (Benth.) Stapf	X	X		X	X	X	X
Vossia cuspidata (Roxb.) Griff.	X	X		X	X	X	X
Willkommia sarmentosa Hack.				X	X		X
Willkommia sarmentosa Hack. (Craspedorhachis sarmentosa)	X			X			
Zonotriche inamoena (K.Schum.) Clayton (Tristachya inamoena)						X	
Pontederiaceae							
Eichhornia natans (P.Beauv.) Solms	X	X		X			
Heteranthera callifolia Kunth	X	X					X
Potamogetonaceae							
Potamogeton crispus L.	X						
Potamogeton octandrus Poir.	X	X			X		X
Potamogeton pectinatus L.				X			
Potamogeton pusillus L.				X			
Potamogeton schweinfurthii A.W.Benn.	X	X		X	X		X
Potamogeton thunbergii Cham.& Schltdl. (P. natans, P. richardii)	X	X		X	X		X
Potamogeton trichoides Cham.& Schltdl.	X						
Smilacaceae							
Smilax anceps Willd. (S. kraussiana)					X		
Taccaceae							
Tacca leontopetaloides (L.) Kuntze (T. involucrata)					X	X	
Trapaceae							
Trapa natans L. var. bispinosa (Roxb.) Makine	X	X		X		X	
Typhaceae							
Typha capensis (Rohrb.) N.E.Br. (T. latifolia subsp. capensis)	X	X		X		X	X
Velloziaceae							
Xerophyta equisetoides Baker var. equisetoides (Vellozia equisetoides)					X	X	X
Xerophyta humilis (Baker) T.Dur.& Schinz (Vellozia humilis)	X					X	X
Xyridaceae							
Xyris capensis Thunb.	X						X
Xyris rehmannii L.A.Nilsson	X						
Xyris straminea L.A.Nilsson	X						
Zingiberaceae							
Aframomum alboviolaceum (Ridl.) K.Schum. (A. biauriculatum)						X	
Costus macranthus K.Schum.						X	
Costus spectabilis (Fenzl.) K.Schum.						X	
Siphonochilus carsonii (Baker) Lock (Kaempferia carsonii)					X	X	
Siphonochilus kirkii (Hook.f.) B.L.Burtt (Kaempferia rosea)					X	X	X
DICOTYLEDONS							
Acanthaceae							
Asystasia gangetica (L.) T.Anderson	X	X		X	X	X	X
Asystasia schimperi T.Anderson	X						
Barleria capitata Klotzsch	X	X			X		X
Barleria crassa C.B.Clarke					X		
Barleria galpinii C.B.Clarke				X			
Barleria kirkii T.Anderson					X	X	X
Barleria lancifolia T.Anderson		X	X				
Barleria mackenii Hook.f.	X				X		X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Barleria matopensis S.Moore					X		X
Barleria prionitis L. subsp. ameliae (A.Meeuse) Brummitt & J.R.I.Wood					X		X
Barleria rhodesiaca Oberm.							X
Barleria senensis Klotzsch	X	X		X			X
Barleria spinulosa Klotzsch					X	X	X
Barleria subglobosa S.Moore					X	X	
Barleria taitensis S.Moore							X
Blepharis bainesii C.B.Clarke							X
Blepharis buchneri S.Moore					X	X	
Blepharis caloneura S.Moore		X		X	X	X	
Blepharis diversispina (Nees) C.B.Clarke	X		X				
Blepharis integrifolia (L.f.) Schinz	X						
Blepharis involucrata Solms							X
Blepharis leendertziae Oberm.					X		X
Blepharis maderaspatensis (L.) Roth	X	X	X		X	X	X
Blepharis noli-me-tangire S.Moore (B. pruinosa)	X	X					
Blepharis pungens Klotzsch					X		
Blepharis tenuiramea S.Moore							X
Crabbea velutina S.Moore				X	X		X
Crossandra spinescens Dunkley						X	X
Dicliptera nemorum Milne-Redh.						X	
Dicliptera spinulosa K.Balkwill (D. verticillata, D. micranthes)	X	X	X		X	X	
Duosperma crenatum (Lindau) P.G.Mey.	X		X		X	X	X
Duosperma quadrangulare (Klotzsch) Brummitt		X			X		X
Dyschoriste perrottetii (Nees) Kuntze					X	X	
Dyschoriste radicans (A.Rich.) Nees	X		X				
Dyschoriste trichocalyx (Oliv.) Lindau						X	
Dyschoriste verticillaris (Oliv.) C.B.Clarke					X		
Elytraria acaulis (L.f.) Lindau			X				X
Hygrophila abyssinica (Nees) T.Anderson (H. prunelliodes)	X	X			X		X
Hygrophila auriculata (Schumach.) Heine							X
Hygrophila cataractae S.Moore					X		
Hygrophila pilosa Burkill	X	X			X		X
Hygrophila pobeguinii Benoist	X						
Hygrophila sp. (PAS 3820)		X					
Hygrophila spiciformis Lindau							X
Hypoestes aristata (Vahl) Roem.& Schult.	X	X		X			
Hypoestes forskaolii (Vahl) Roem.& Schult. (H. verticillaris)	X	X		X	X	X	X
Isoglossa eylesii (S.Moore) Brummitt (Adhatoda eylesii)						X	
Justicia anselliana (Nees) T.Anderson	X	X					
Justicia betonica L.	X		X	X	X	X	X
Justicia betonicoides C.B.Clarke					X	X	
Justicia elegantula S.Moore					X		
Justicia exigua S.Moore							X
Justicia flava (Vahl) Vahl					X	X	
Justicia glabra Roxb.	X	X			X		X
Justicia heterocarpa T.Anderson subsp. dinteri (S.Moore) Hedrén (J. dinteri, J. leptocarpa)	X	X			X	X	X
Justicia kirkiana T.Anderson							X
Justicia matammensis (Schweinf.) Oliv.	X				X		X
Justicia odora (Forssk.) Vahl		X					X
Justicia striata (Klotzsch) Bullock					X	X	
Lepidagathis microchila Lindau					X	X	
Lepidagathis scabra C.B.Clarke			X				
Lepidagathis scariosa Nees							X
Megalochlamys hamata (Klotzsch) Vollesen (M. strobilifera)		X	X				X
Monechma debile (Forssk.) Nees (M. monechmoides, M. tettense)	X	X		X	X	X	X
Monechma divaricatum (Nees) C.B.Clarke (M. fimbriatum)	X	X	X	X	X		
Nelsonia canescens (Lam.) Spreng.	X	X			X	X	X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Neuracanthus africanus S.Moore var. africanus							X
Peristrophe paniculata (Forssk.) Brummitt (P. bicalyculata)	X	X	X		X		X
Phaulopsis barteri T.Anderson var. barterii (P. longifolia)					X	X	
Phaulopsis imbricata (Forssk.) Sweet subsp. imbricata (P. parviflora)	X			X	X		X
Rhinacanthus gracilis Klotzsch var. gracilis					X		X
Ruellia otaviensis Mey. (R. prostrata)	X					X	
Ruellia patula Jacq.	X				X		
Ruellia praetermissa Lindau					X		
Ruelliopsis setosa (Nees) C.B.Clarke		X					
Ruspolia decurrens (Nees) Milne-Redh.	X				X	X	X
Ruspolia seticalyx (C.B.Clarke) Milne-Redh.	X	X			X		X
Strobilanthopsis linifolia (C.B.Clarke) Milne-Redh.					X	X	
Thunbergia alata Sims					X		
Thunbergia annua Nees							X
Thunbergia aurea N.E.Br.	X	X					
Thunbergia crispa Burkill					X	X	
Thunbergia dregeana Nees.				X			
Thunbergia neglecta Sond.		X					
Thunbergia reticulata A.Rich.							X
Aizoaceae							
Corbichonia decumbens (Forssk.) Exell							X
Aizoaceae							
Galenia secunda (L.f.) Sond.		X					
Gisekia africana (Lour.) Kuntze var. africana				X	X	X	X
Gisekia africana (Lour.) Kuntze var. pedunculata (Oliv.) Brenan	X	X					
Gisekia pharnacioides L. var. pharnacioides	X	X	X	X	X	X	X
Glinus bainesii (Oliv.) Pax		X	X				
*Glinus lotoides L.	X	X		X	X		X
Glinus oppositifolius (L.) A.DC. var. oppositifolius	X	X					
Hypertelis bowkeriana Sond.	X	X					
Limeum argute-carinatum Warwa.& Peyr. var. kwebense (N.E.Br.) Friedr.	X	X					
Limeum fenestratum (Fenzl) Heimerl var. fenestratum	X	X	X	X	X		X
Limeum pterocarpum (J.Gay) Heimerl var. pterocarpum	X						
Limeum sulcatum (Klotzsch) Hutch. var. sulcatum	X	X	X				X
Limeum viscosum (J.Gay) Fenzl. subsp. viscosum var. viscosum	X	X	X		X		
Mollugo cerviana (L.) Ser. var. cerviana	X	X	X	X	X		X
Mollugo nudicaulis Lam.	X				X		X
Sesuvium hydaspicum (Edgew.) M.L.Gonç.		X					
Sesuvium nyasicum (Baker) M.L.Gonç.	X	X					X
Trianthema parvifolia Sond.		X					
Trianthema salsoloides Oliv. var. stenophylla Adamson	X	X					
Trianthema salsoloides Oliv. var. transvaalensis (Schinz) Adamson							X
Zaleya pentandra (L.) C.Jeffrey	X	X					X
Amaranthaceae							
*Achyranthes aspera L.	X	X	X	X	X	X	X
Aerva javanica (Burm.f.) J.A.Schultes (A. persica)		X					
Aerva lanata (L.) Schult.					X	X	
Aerva leucura Moq.	X	X	X	X	X		X
*Alternanthera nodiflora R.Br.	X	X	X			X	X
*Alternanthera pungens Kunth	X	X	X		X		X
*Alternanthera sessilis (L.) DC.	X	X		X	X	X	X
Amaranthus graecizans L.					X		
*Amaranthus hybridus L.	X	X					X
Amaranthus praetermissus Brenan	X						
*Amaranthus spinosus L.		X		X	X		
Amaranthus thunbergii Moq.	X	X	X	X			X
Amaranthus viridis L.					X		
Celosia trigyna L.	X				X	X	X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Centemopsis gracilenta (Hiern) Schinz					X	X	
Centrostachys aquatica (R.Br.) Moq. (Achyranthes aquatica)	X	X					
Cyathula lanceolata Schinz		X					
Cyathula orthacantha (Asch.) Schinz		X					X
Cyathula prostrata (L.) Blume					X		
*Gomphrena celosioides Mart.	X	X			X		X
*Guilleminea densa (Willd.) Moq.	X	X					X
Hermbstaedtia angolensis C.B.Clarke (Celosia welwitschii)					X		
Hermbstaedtia fleckii (Schinz) Baker & C.B.Clarke							X
Hermbstaedtia linearis Schinz (Celosia linearis)	X	X	X				X
Hermbstaedtia odorata (Burch.) T.Cooke	X	X	X	X			
Hermbstaedtia scabra Schinz (Celosia scabra)	X	X			X		X
Kyphocarpa angustifolia (Moq.) Lopr.	X	X	X	X	X		X
Leucosphaera bainesii (Hook.f.) Gilg.	X						
Mechowia grandiflora Schinz					X		
Nelsia quadrangula (Engl.) Schinz	X	X					
Pandiaka carsoni (Baker) C.B.Clarke					X		
Pandiaka involucrata (Moq.) B.D.Jacks.							X
Pandiaka welwitschii (Schinz) Hiern (P. schweinfurthii)					X		
Psilotrichum scleranthum Thwaites							X
*Pupalia lappacea (L.) A.Juss. var. velutina (Moq.) Hook.f.	X	X	X	X	X	X	X
Sericorema remotiflora (Hook.f.) Lopr.	X	X	X				
Anacardiaceae							
Heeria nitida Engl. & Brehm.						X	
Lannea discolor (Sond.) Engl.	X	X		X	X	X	X
Lannea edulis (Sond.) Engl. (L. ambacensis)		X			X	X	X
Lannea gossweileri Exell & Mendonça	X				X	X	
Lannea schweinfurthii (Engl.) Engl. var. stuhlmanni (Engl.) Kokwaro				X			
Lannea schweinfurthii (Engl.) Engl. var. tomentosa (Dunkley) Kokwaro	X	X	X	X	X	X	X
Lannea virgata R.& A.Fern.					X	X	
*Mangifera indica L.				X			
Ozoroa longipes (Engl.& Gilg) R.& A.Fern.				X	X		
Ozoroa nitida (Engl. & Brehm.) R.& A.Fern. (Heeria nitida)		X			X	X	X
Ozoroa reticulata (Baker f.) R.& A.Fern.					X	X	
Ozoroa verticillata (Engl.) R.& A.Fern. (Heeria verticillata)						X	
Rhus kirkii Oliv.					X	X	
Rhus longipes Engl.					X	X	
Rhus lucens Hutch.		X			X		X
Rhus natalensis C.Krauss					X		
Rhus pyroides Burch.	X	X		X			
Rhus quartiniana A.Rich.	X	X		X	X	X	X
Rhus tenuinervis Engl. (R. commiphoroides)	X	X		X	X	X	X
Sclerocarya birrea (A.Rich.) Hochst. subsp. caffra (Sond.) Kokwaro	X	X		X	X	X	X
Anisophyllaceae							
Anisophyllea boehmii Engl.						X	
Annonaceae							
Annona stenophylla Engl.& Diels subsp. nana (Exell) N.Robson	X	X		X	X	X	X
Artabotrys brachypetalus Benth.		X			X	X	X
Artabotrys monteireae Oliv.					X	X	
Friesodielsia obovata (Benth.) Verdc.	X	X		X	X	X	X
Hexalobus monopetalus (A.Rich.) Engl.& Diels	X				X	X	X
Uvaria angolensis Oliv.						X	
Uvariastrum hexaloboides (R.E.Fr.) R.E.Fr.						X	
Xylopia odoratissima Oliv.	X	X		X	X	X	X
Xylopia tomentosa Exell				X			
Apiaceae							
*Apium leptophyllum (Pers.) Benth.	X						
Centella coriacea Nannf.				X			

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Diplolophium zambesianum Hiern					X	X	
Heteromorpha arborescens (Spreng.) Cham.& Schltdl. var. abyssinica (A.Rich.) H.Wolff		X					X
Heteromorpha involucrata Conrath							X
Heteromorpha stenophylla Schinz var. transvaalensis (Schltr.& H.Wolff) P.J.D.Winter							X
Heteromorpha trifoliata (Wendl.) Eckl.& Zeyh.		X			X	X	
Hydrocotyle bonariensis Lam.		X					
*Hydrocotyle ranunculoides L.f.	X	X					
Hydrocotyle verticillata Thunb.	X	X		X	X		X
Lefebvrea abyssinica A.Rich. (L. stuhlmanii)						X	
Steganotaenia araliacea Hochst.		X		X	X	X	X
Apocynaceae							
Acokanthera oppositifolia (Lam.) Codd						X	
Adenium multiflorum Klotzsch							X
Ancylobotrys amoena Hua						X	
Baissea wulfhorstii Schinz	X	X		X	X	X	
Carissa bispinosa (L.) Brenan		X					
Carissa edulis (Forssk.) Vahl	X	X		X	X	X	
*Catharanthus roseus (L.) G.Don				X			
Chamaeclitandra henriquesiana (Warb.) Pichon					X	X	
Dictyophleba lucida (K.Schum.) Pierre					X		
Diplorhynchus condylocarpon (Müll.Arg.) Pichon	X	X		X	X	X	X
Holarrhena pubescens (Buch.-Ham.) G.Don (H. febrifuga)						X	
Landolphia camptoloba (K.Schum.) Pichon					X	X	
Landolphia kirkii Dyer						X	
Landolphia parvifolia K.Schum.					X	X	
Rauvolfia caffra Sond.						X	
Strophanthus kombe Oliv.		X			X	X	X
Strophanthus nicholsonii Holmes					X	X	X
Strophanthus petersianus Klotzsch							X
Strophanthus welwitschii (Baill.) K.Schum.					X	X	
Araliaceae							
Centella asiatica (L.) Urb.	X	X		X	X		X
Cussonia arborea A.Rich. (C. kirkii Seem.)					X	X	
Aristolochiaceae							
Aristolochia albida Duch. (A. petersiana)						X	
Aristolochia elegans Mast (A. littoralis)							X
Asclepiadaceae							
*Asclepias curassavica L.							X
Ceropegia abyssinica Decne.					X		
Ceropegia distincta N.E.Br. subsp. lugardae (N.E.Br.) H.Huber							X
Ceropegia meyeri Decne.							X
Ceropegia multiflora Baker					X		X
Ceropegia nilotica Kotschy var. nilotica				X			X
Ceropegia papillata N.E.Br.						X	
Ceropegia stenantha K.Schum.					X		
Cynanchum gerardii (Harv.) Liede							X
Cynanchum schistoglossum Schltr.	X	X			X		
Dregea macrantha Klotszch		X	X		X		
Duvalia polita N.E.Br. var. polita							X
Ectadiopsis oblongifolia (Meisn.) Schltr.					X	X	
Ectadiopsis producta (N.E.Br.) Bullock					X	X	
Fockea angustifolia K.Schum.							X
Fockea multiflora K.Schum.	X			X	X	X	X
Glossostelma spathulatum (K.Schum.) Bullock					X	X	
Gomphocarpus fruticosus (L.) W.T.Aiton (Asclepias fruticosa)		X		X	X		
Gomphocarpus glaucophyllus Schltr. (Asclepias glaucophylla)						X	X
Gomphocarpus rostratus (N.E.Br.) Bullock	X	X					

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Gongrenema angolense (N.E.Br.) Bull.					X		
Gymnema sylvestre (Retz.) Schult.	X			X	X	X	
Hoodia currorii (Hook.) Decne subsp. lugardiae (N.E.Br.) Bruyns (H. lugardii)		X					
Huernia levyi Oberm.		X			X		X
Huernia verekeri Stent var. verekeri				X			
Kanahia laniflora (Forssk.) R.Br.						X	X
Margaretta rosea Oliv. subsp. bidens Bullock					X		X
Marsdenia macrantha (Klotzsch) Schltr.							X
Mondia whitei (Hook.f.) Skeels					X		
Orthanthera jasminiflora (Decne.) Schinz	X	X		X	X	X	X
Pachycarpus bisacculatus (Oliv.) Goyder							X
Pachycarpus lineolatus (Decne.) Bullock					X	X	
Pachycymbium schweinfurthii (Berger) M.G.Gilbert							X
Pentarrhinum insipidum E.Mey.	X				X	X	
Pergularia daemia (Forssk.) Chiov.	X	X					X
Periglossum mossambicense Schltr.	X	X					
Raphionacme lanceolata Schinz				X			
Raphionacme longifolia (K.Schum.) N.E.Br.							X
Riocreuxia profusa N.E.Br. (Ceropegia burchelli)						X	
Sarcostemma viminale (L.) R.Br. (Cynanchum tetrapterum)	X	X			X	X	X
Secamone erythradenia K.Schum.						X	
Secamone parvifolia (Oliv.) Bullock					X		
Secamone punctulata Decne. (S. micrandra)						X	
Stapelia gigantea N.E.Br.							X
Stathmostelma fornicatum (N.E.Br.) Bullock						X	X
Stathmostelma pauciflorum (Klotzsch) K.Schum.						X	
Stenostelma eminens (Harv.) Bullock (Schizoglossum aciculare)				X			
Stomatostemma monteiroae (Oliv.) N.E.Br.		X	X		X		X
Tacazzea apiculata Oliv.	X	X		X	X	X	X
Xysmalobium reticulatum N.E.Br.						X	
Xysmalobium undulatum (L.) W.T.Aiton		X					X
Asteraceae							
Acanthospermum australe (Loefl.) Kuntze					X		
*Acanthospermum hispidum DC.		X	X	X	X		X
Adenostemma caffrum DC.	X	X		X		X	X
Adenostemma perrottetii DC.					X		
*Ageratum conyzoides L.		X			X		X
*Ambrosia maritima L.		X				X	
Anisopappus chinensis (L.) Hook.f.& Arn. (A. dentatus, A. canescens, A. rhombifolius)					X	X	
Artemisiopsis villosa (O.Hoffm.) Schweick.		X					
Aspilia kotschyi (Hochst.) Oliv.		X			X	X	X
Aspilia mossambicensis (Oliv.) Wild	X				X	X	X
Aspilia pluriseta Schweinf.					X		
*Bidens bipinnata L.							X
Bidens biternata (Lour.) Merr.& Sherff (B. cylindracea)		X	X		X		X
Bidens oligoflora (Klatt) Wild					X		
*Bidens pilosa L.	X			X	X	X	X
Bidens schimperi Sch.Bip.	X	X		X	X	X	X
Blainvillea gayana Cass. (B. latifolia)	X				X		X
Blumea axillaris (Lam.) DC. (B. mollis, B. solidaginoides)	X	X			X		X
Blumea brevipes (Oliv.& Hiern) Wild					X	X	
Blumea cafra (DC.) O.Hoffm.	X	X	X				
Blumea crispata (Vahl) Merxm. (B. alata)	X				X	X	
Blumea decurrens (Vahl) Merxm. (B. gariepina)	X	X		X	X		X
Blumea viscosa (Mill.) V.M.Badillo	X	X			X		X
Bothriocline laxa N.E.Br. (Erlangea laxa)					X		
Calostephane divaricata Benth.		X			X		X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Chrysanthellum indicum DC. subsp. afro-americanum B.L.Turner (C. americanum)					X		X
Conyza aegyptiaca (L.) Aiton					X	X	
Conyza attenuata DC. (C. persicifolia)					X	X	X
Conyza bonariensis (L.) Cronquist				X			
Conyza stricta Willd.						X	
*Conyza sumatrensis (Retz.) E.Walker	X	X					
Conyza welwitschii (S.Moore) Wild					X	X	
Crassocephalum crepidioides (Benth.) S.Moore					X		
Crassocephalum rubens (Jacq.) S,Moore					X		
Crassocephalum sarcobasis (DC.) S.Moore						X	X
Crassocephalum uvens (Hiern) S.Moore							X
Crassocephalum x picridifolium (DC.) S.Moore	X	X			X		
Denekia capensis Thunb.	X				X		X
Dicoma anomala Sond.					X	X	X
Dicoma gerrardii F.C.Wilson							X
Dicoma niccolifera Wild							X
Dicoma schinzii O.Hoffm.		X			X	X	
Dicoma tomentosa Cass.		X	X		X		X
*Doellia cafra (DC.) Anderb.							X
Eclipta prostrata (L.) L.	X	X					X
Elephantopus scaber L.						X	
Emilia ambifaria (S.Moore) C.Jeffrey	X						X
Emilia coccinea (Sims) G.Don		X					
Emilia leptocephala (Mattf.) C.Jeffrey (Senecio leptocephalus)	X						
Emilia protracta S.Moore					X	X	X
Emilia tenellula (S.Moore) C.Jeffrey	X						
Epaltes gariepina (DC.) Steetz (E. alata)	X	X		X	X	X	X
Eriocephalus leuderitzianus O.Hoffm. (E. pubescens)		X					
Erlangea misera (Oliv.& Hiern) S.Moore (E. sessilifolia)	X			X	X		X
Erythrocephalum zambesianum Oliv.& Hiern					X		
Ethulia conyzoides L.f. subsp. conyzoides	X	X		X	X	X	X
Felicia clavipilosa Grau	X	X					
Felicia mossamedensis (Hiern) Mendonca		X					
Felicia welwitschii (Hiern) Grau (F. barbellata)					X		
*Flaveria bidentis (L.) Kuntze	X	X					
*Flaveria trinervia (Spreng.) C.Mohr							X
*Galinsoga parviflora Cav.				X			
Geigeria africana Griess. subsp. filifolia (Matt.f.) Merxm.		X					
Geigeria africana Griess. subsp. ornativa (O.Hoffm.) Merxm. (G. ornativa)		X			X		X
Geigeria otaviensis (Merxm.) Merxm.		X					
Geigeria schinzii O.Hoffm.	X	X		X			
Gnaphalium polycaulon Pers.	X	X					
Grangea anthemoides O.Hoffm.	X	X				X	
Grangea maderaspatana (L.) Poir.		X			X	X	X
Gutenbergia grossweileri S.Moore						X	
Gutenbergia polycephala Oliv.& Hiern					X		
Helichrysum argyrosphaerum DC.				X		X	
Helichrysum candolleanum H.Buek (H. leptolepis)	X	X		X			X
Helichrysum kirkii Oliv.& Hiern					X	X	
Helichrysum seineri Moeser. (H. lineare)	X	X		X			
Helichrysum spiciforme DC. subsp. amboense (Schinz) Merxm. (H. amboense)	X			X			
Helichrysum subglomeratum Less.				X			
Hirpicium gorterioides (Oliv.& Hiern) Roessler subsp. gorterioides	X						
Hirpicium gracile (O.Hoffm.) Roessler					X		X
Hypericophyllum elatum (O.Hoffm.) N.E.Br.						X	
Inula glomerata Oliv.& Hiern						X	X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Kleinia longiflora DC.	X						X
Kleinia mweroensis (Baker) Jeffrey (Senecio mweroensis)						X	
Lactuca inermis Forssk. (L. capensis)					X		
Launaea rarifolia (Oliv.& Hiern) Boulos var. rarifolia							X
Melanthera albinervia O.Hoffm. subsp. albinervia					X		X
Melanthera scandens (Schumach.& Thonn.) Roberty subsp. madagascariensis (Baker) Wild	X	X				X	
Melanthera triternata (Klatt) Wild (M. marlothiana)		X					X
Microglossa pyrifolia (Lam.) Kuntze					X		X
Mikania capensis DC.	X						
Mikania carteri Baker (M. natalensis, M. cordata)	X	X			X	X	X
Mikania sagittifera B.L.Robinson	X	X		X			
Nicolasia costata (Klatt) Thell.	X	X					
Nicolasia felicioides (Hiern) S.Moore					X		
Nicolasia nitens (O.Hoffm.) Leins (N. quinqueseta)	X	X		X			
Nicolasia pedunculata S.Moore	X	X			X		
Nicolasia stenoptera (O.Hoffm.) Merxm.	X	X					
Nidorella resedifolia DC. subsp. microcephala (Steetz) Wild					X		
Nidorella resedifolia DC. subsp. resedifolia	X	X		X	X	X	X
Nolletia zambesica R.E.Fr.		X					
Pechuel-loeschea leubnitziae (Kuntze) O.Hoffm. (Pluchea leubnitziae)	X	X		X			
Pegolettia senegalensis Cass.	X	X	X		X		X
Philyrophyllum schinzii O.Hoffm.	X						
Pleiotaxis antunesii O.Hoffm.				X			
Pleiotaxis eximia O.Hoffm. subsp. eximia (P. amoena)		X				X	
Pluchea dioscoridis (L.) DC.		X	X		X	X	X
Pseudoconyza viscosa (Mill.) D'Arcy							X
Pseudognaphalium luteo-album (L.) Hilliard & B.L.Burtt	X	X					X
Pseudognaphalium luteo-album (L.) Hilliard & B.L.Burtt (Gnaphalium luteoalbum)				X			
Pseudognaphalium oligandrum (DC.) Hilliard & B.L.Burtt	X						
Pulicaria scabra (Thunb.) Druce	X	X					X
Sclerocarpus africanus Murr.		X			X		X
Senecio apiifolius (DC.) O.Hoffm.	X						
Senecio cryphiactis O.Hoffm.	X						
Senecio madagascariensis Poir. (S. ruderalis)		X					
Senecio strictifolius Hiern	X			X		X	
Solanecio angulatus (Vahl) C.Jeffrey (Senecio bojeri)					X		X
*Sonchus asper (L.) Hill	X	X					
*Sonchus oleraceus L.		X			X		
Sphaeranthus angolensis O.Hoffm.					X		
Sphaeranthus flexuosus O.Hoffm. (S. humilis)	X	X		X	X	X	X
Sphaeranthus gazaensis Bremek.							X
Sphaeranthus peduncularis DC. subsp. peduncularis	X	X					X
Sphaeranthus peduncularis DC. subsp. rogersii (N.E.Br.) Wild. (S. incisus)	X	X	X				
Sphaeranthus randii S.Moore						X	X
Sphaeranthus similis Kers. (PAS 319)		X					
Sphaeranthus suaveolens (Forssk.) DC.					X		
*Synedrella nodiflora Gaertn.					X		
*Tagetes minuta L.		X			X		
Tarchonanthus camphoratus L.		X					X
*Tithonia rotundifolia (Mill.) S.F.Blake		X					X
*Tridax procumbens L.					X		X
*Verbesina encelioides (Cav.) A.Gray		X					
Vernonia adoensis Walp. var. kotschyana (Walp.) G.V.Pope		X			X	X	
Vernonia amygdalina Delile	X			X	X	X	X
Vernonia anthelmintica (L.) Willd. (V. stenolepis)					X	X	X
Vernonia aurantiaca (O.Hoffm.) N.E.Br. (Gongrothamnus divaricatus)	X	X		X	X	X	X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Vernonia bellinghamii S.Moore						X	
Vernonia cinerascens Sch.Bip.		X					
Vernonia cinerea (L.) Less					X	X	
Vernonia colorata (Willd.) Drake		X			X	X	X
Vernonia fastigiata Oliv.& Hiern	X	X	X				X
Vernonia gerberiformis Oliv.& Hiern	X						
Vernonia glaberrima O.Hoffm.					X	X	
Vernonia glabra (Steetz) Vatke	X	X	X	X	X	X	X
Vernonia kirkii Oliv.& Hiern						X	
Vernonia longipedunculata De Wild. var. manikensis (De Wild.) G.V.Pope (V. manikensis)					X	X	
Vernonia meiostephana C.Jeffrey							X
Vernonia melleri Oliv.& Hiern var. melleri		X					X
Vernonia melleri Oliv.& Hiern var. superba (O.Hoffm.) C.Jeffrey (V. superba)						X	
Vernonia myriantha Hook.f. (V. ampla)					X		
Vernonia nestor S.Moore						X	
Vernonia perrottetii Walp.					X	X	
Vernonia petersii Oliv.					X	X	X
Vernonia poskeana Vatke & Hildebr.	X	X	X	X	X	X	X
Vernonia rosenii R.E.Fr.		X				X	
Vernonia steetziana Oliv.& Hiern							X
Vernonia stenocephala Oliv.						X	
Vernonia subaphylla Baker						X	
Vernonia suprafastigiata Klatt							X
Vernonia thomsoniana Oliv.						X	
*Xanthium strumarium L.					X		
Balanitaceae							
Balanites aegyptiaca (L.) Delile	X				X	X	X
Bignoniaceae							
Catophractes alexandri D.Don		X	X				
Kigelia africana (Lam.) Benth.	X	X		X	X	X	X
Markhamia obtusifolia (Baker) Sprague	X	X		X	X	X	X
Markhamia zanzibarica (DC.) K.Schum.	X	X		X	X	X	X
Rhigozum brevispinosum Kuntze	X						
Rhigozum trichotomum Burch.		X		X			
Stereospermum kunthianum Cham.						X	X
Bombacaceae							
Adansonia digitata L.	X	X	X	X	X	X	X
Boraginaceae							
Cordia goetzei Gürke					X	X	
Cordia grandicalyx Oberm.							X
Cordia monoica Roxb. (C. ovalis)	X	X	X	X		X	
Cordia pilosissima Baker		X			X	X	X
Cordia sinensis Lam. (C. gharaf)						X	
Ehretia amoena Klotzsch	X	X					
Ehretia caerulea Gürke	X	X				X	
Ehretia obtusifolia DC.					X	X	X
Ehretia rigida (Thunb.) Druce		X					
Heliotropium baclei DC.& A.DC. var. rostratum I.M.Johnst.		X			X	X	X
Heliotropium ciliatum Kaplan		X					
Heliotropium indicum L.		X			X	X	
Heliotropium ovalifolium Forssk.	X	X	X	X	X	X	X
Heliotropium pectinatum F.Vaupel subsp. harareense (E.S.Martins) Verdc.							X
Heliotropium steudneri Vatke	X						
Heliotropium strigosum Willd.	X						
Heliotropium supinum L.	X	X					X
Trichodesma ambacense Welw. subsp. hockii (De Wild.) Brummitt (T.						X	X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
hockii)							
Trichodesma physaloides (Fenzl) A.DC.	X	X			X	X	
Trichodesma zeylanicum (Burm.f.) R.Br.	X				X	X	X
Brassicaceae							
Coronopus integrifolius (DC.) Spreng	X	X	X				
Erucastrum arabicum Fisch.& C.A.Mey.	X	X					
Lepidium africanum (Burm.f.) DC. subsp. africanum							X
Rorippa cryptantha (A.Rich.) Robyns & Boutique					X		
Rorippa fluviatilis (Sond.) R.A.Dyer							X
Burseraceae							
Commiphora africana (A.Rich.) Engl. (C. pilosa)	X	X	X		X	X	X
Commiphora angolensis Engl.		X		X	X	X	X
Commiphora caerulea Burtt		X					X
Commiphora edulis (Klotzsch) Engl.		X			X	X	X
Commiphora glandulosa Schinz		X	X	X	X	X	X
Commiphora karibensis Wild					X		X
Commiphora marlothii Engl.					X	X	X
Commiphora mollis (Oliv.) Engl.	X	X			X	X	X
Commiphora mossambicensis (Oliv.) Engl.		X	X		X	X	X
Commiphora pteleifolia Engl.						X	
Commiphora pyracanthoides Engl.	X	X	X				
Commiphora schimperi (O.Berg.) Engl.		X					
Commiphora tenuipetiolata Engl.				X			
Commiphora ugogensis Engl.					X	X	X
Cabombaceae							
Brasenia schreberi J.F.Gmel.	X	X					
Cactaceae							
*Opuntia ficus-indica (L.) Mill.				X			
Campanulaceae							
Gunillaea emirnensis (A.DC.) Thulin							X
Gunillaea rhodesica (Adamson) Thulin (Prismatocarpus rhodesicus)	X	X		X		X	X
Wahlenbergia banksiana A.DC.	X	X		X			
Wahlenbergia denticulata (Burch.) A.DC.							X
Wahlenbergia erecta (Roem.& Schult.) Tuyn (Lightfootia perotifolia)						X	
Wahlenbergia napiformis (A.DC.) Thulin (Lightfootia glomerata, L. marginata)	X					X	X
Wahlenbergia ramosissima (Hemsl.) Thulin subsp. lateralis (Brehmer) Thulin	X	X					
Wahlenbergia undulata (L.f.) A.DC.	X						
Cannabinaceae							
*Cannabis sativa L.						X	
Capparidaceae							
Boscia albitrunca (Burch.) Gilg & Gilg-Ben.	X	X		X	X	X	
Boscia angustifolia A.Rich. var. corymbosa (Gilg) DeWolf					X	X	X
Boscia foetida Schinz subsp. rehmannia (Pestal.) Toelken	X	X					
Boscia matabelensis Pestal.	X	X			X	X	X
Boscia mossambicensis Klotzsch	X	X			X	X	X
Boscia salicifolia Oliv.		X			X	X	
Cadaba kirkii Oliv.							X
Cadaba termitaria N.E.Br.	X			X			X
Capparis erythrocarpos Isert var. rosea (Klotzsch) DeWolf							X
Capparis fascicularis DC. var. elaeagnoides (Gilg) DeWolf (C. elaeagnoides)		X				X	
Capparis tomentosa Lam.	X	X		X	X	X	X
Cleome angustifolia Forssk. subsp. petersiana (Sond.) Kers							X
Cleome gynandra L. (Gynandropsis gynandra)	X	X			X		X
Cleome hirta (Klotzsch) Oliv.	X	X	X	X	X	X	X
Cleome macrophylla (Klotzsch) Briq. var. macrophylla							X
Cleome monophylla L.	X				X	X	

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Cleome rubella Burch.	X	X					
Maerua angolensis DC.	X	X	X		X	X	X
Maerua friesii Gilg & Gilg-Ben.					X	X	
Maerua juncea Pax subsp. juncea				X	X	X	X
Maerua parvifolia Pax			X		X	X	
Maerua prittwitzii Gilg & Gilg-Ben.						X	
Caryophyllaceae							
Corrigiola litoralis L.	X						
Corrigiola paniculata Peter					X		
*Pollichia campestris Aiton	X	X		X	X	X	X
*Polycarpaea corymbosa (L.) Lam.	X			X	X	X	X
Polycarpaea eriantha A.Rich. var. eriantha	X	X					
Polycarpon prostratum (Forssk.) Asch.& Schweinf.	X	X					X
Celastraceae							
Elaeodendron matabelicum Loes. (Cassine matabelica)	X						
Elaeodendron transvaalense (Burtt Davy) R.H.Archer (Cassine transvaalensis, Crocoxylon transvaalense)	X	X		X	X		X
Gymnosporia senegalensis (Lam.) Loes.				X			
Loesneriella africana (Willd.) N.Hallé var. ricardiana (A.St.-Hil.) N.Hallé (Hippocratea africana)	X	X		X	X	X	X
Maytenus heterophylla (Eckl.& Zeyh.) N.Robson (M. cymosa)	X	X	X		X	X	X
Maytenus senegalensis (Lam.) Exell.	X	X		X	X	X	X
Mystroxylon aethiopicum (Thunb.) Loes. (Cassine aethiopica)	X				X	X	
Pleurostylia africana Loes.					X	X	X
Pristimeria longipetiolata (Oliv.) N.Hallé							X
Reissantia buchananii (Loes.) N.Hallé (Hippocratea buchananii)		X			X	X	X
Reissantia indica (Willd.) N.Hallé (Hippocratea indica)		X				X	X
Reissantia parviflora (N.E.Br.) N.Hallé (Hippocratea parviflora)		X			X	X	X
Salacia erecta (G.Don) Walp.					X		
Salacia luebbertii Loes.	X	X				X	
Ceratophyllaceae							
Ceratophyllum demersum L.	X	X		X			X
Ceratophyllum submersum L.	X						
Chenopodiaceae							
*Chenopodium ambrosioides L.	X						
*Chenopodium murale L.		X					
*Chenopodium opulifolium Koch & Ziz	X	X					
Salsola rabieana I.Verd. (S. aphylla)		X					
Suaeda merxmuelleri Aellen (S. fruticosa)		X	X				
Suaeda plumosa Aellen		X	X				
Chrysobalanaceae							
Magnistipula sapinii De Wild. (M. eglandulosa)					X		
Parinari capensis Harv. subsp. capensis	X			X	X	X	X
Parinari curatellifolia Benth.	X	X		X	X	X	X
Parinari excelsa Sabine						X	
Clusiaceae							
Garcinia buchananii Baker (G. huillensis)					X	X	
Garcinia livingstonei T.Anderson	X	X		X	X	X	X
Hypericum lalandii Choisy					X		
Hypericum oligandrum Milne-Redh.				X			
Psorospermum baumii Engl.					X	X	
Psorospermum febrifugum Spach					X	X	
Combretaceae							
Combretum adenogonium A.Rich. (C. fragrans)	X	X			X	X	X
Combretum albopunctatum Suess.	X	X		X			X
Combretum apiculatum Sond.	X	X	X	X	X	X	X
Combretum celastroides M.A.Lawson		X		X	X	X	X
Combretum collinum Fresen.	X	X		X	X	X	X
Combretum elaeagnoides Klotzsch	X	X		X	X	X	X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Combretum erythrophyllum (Burch.) Sond.		X					X
Combretum hereroense Schinz (C. transvaalense var. villosissimum)	X	X	X	X	X	X	X
Combretum imberbe Wawra	X	X	X	X	X	X	X
Combretum microphyllum Klotzsch					X	X	X
Combretum molle G.Don.	X				X	X	X
Combretum mossambicense (Klotzsch) Engl.	X	X		X	X	X	X
Combretum platypetalum M.A.Lawson				X	X	X	X
Combretum psidioides Welw.	X	X		X	X	X	X
Combretum schumannii Engl. (C. engleri)	X	X		X	X	X	X
Combretum zeyheri Sond.	X	X		X	X	X	X
Meiostemon tetrandrus (Exell) Exell & Stace subsp. australis Exell							X
Pteleopsis anisoptera (M.A.Lawson) Engl.& Diels	X					X	X
Pteleopsis myrtifolia (M.A.Lawson) Engl.& Diels		X			X	X	X
Terminalia brachystemma Hiern. subsp. brachystemma				X	X	X	X
Terminalia mollis M.A.Lawson		X			X	X	X
Terminalia prunioides M.A.Lawson	X	X	X	X	X		X
Terminalia randii Baker f.		X	X		X		X
Terminalia sericea DC.	X	X	X	X	X	X	X
Terminalia stenostachya Engl.& Diels					X	X	X
Terminalia stuhlmannii Engl.		X		X	X	X	X
Terminalia trichopoda Diels				X	X	X	X
Connaraceae							
Rourea orientalis Baill. (Byrsocarpus orientalis)		X		X	X	X	X
Convolvulaceae							
Astripomoea lachnosperma (Choisy) A.Meeuse	X	X					X
Astripomoea malvacea (Klotzsch) A.Meeuse						X	
Bonamia spectabilis (Choisy) Hallier f. (B. minor)					X	X	
Convolvulus sagittatus Thunb. var. aschersonii (Engl.) Verdc.						X	X
Convolvulus sagittatus Thunb. var. sagittatus				X			
Evolvulus alsinoides (L.) L.	X	X		X	X	X	X
Falkia oblonga Krauss var. oblonga	X	X					
Hewittia scandens (Milne) Mabb.							X
Ipomoea adenioides Schinz var. adenioides							X
Ipomoea aquatica Forssk.	X	X		X		X	X
Ipomoea blepharophylla Hallier f.					X		X
Ipomoea bolusiana Schinz					X	X	X
Ipomoea cairica (L.) Sweet					X		X
Ipomoea chloroneura Hallier f.	X				X		X
Ipomoea coptica (L.) Roem.& Schult. var. coptica	X				X		X
Ipomoea coscinosperma Choisy	X						X
Ipomoea dichroa Choisy (I. arachnosperma)	X	X			X		X
Ipomoea eriocarpa R.Br.	X	X			X		
Ipomoea fulvicaulis (Choisy) Hallier f.		X				X	X
Ipomoea hochstetteri House							X
Ipomoea involucrata P.Beauv.					X		
Ipomoea kituensis Vatke					X	X	X
Ipomoea lapathifolia Hallier f.					X	X	
Ipomoea leucanthemum (Klotzsch) Hallier f.		X		X			X
Ipomoea magnusiana Schinz				X			
Ipomoea mauritiana Jacq.						X	
Ipomoea obscura (L.) Ker Gawl. var. obscura				X	X	X	X
Ipomoea pes-tigridis L.					X	X	X
Ipomoea pileata Roxb.					X		X
Ipomoea plebeia R.Br. subsp. africana A.Meeuse					X		X
*Ipomoea purpurea (L.) Roth				X			
Ipomoea rubens Choisy		X		X	X	X	X
Ipomoea shirambensis Baker	X	X		X	X	X	X
Ipomoea shupangensis Baker							X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Ipomoea sinensis (Desr.) Choisy subsp. blepharosepala (A.Rich.) A.Meeuse		X					X
Ipomoea sinensis (Desr.) Choisy subsp. sinensis		X		X	X		
Ipomoea tenuipes Verdc. (I. hepatophylla)			X				X
*Ipomoea tricolor Cav.							X
Ipomoea tuberculata Ker Gawl.					X		
Ipomoea venosa (Descr.) Roem.& Schult. subsp. stellaris (Baker) Verdc. (C. stellaris)						X	
Ipomoea verbascoidea Choisy					X	X	X
Ipomoea vernalis R.E.Fr.					X	X	
Ipomoea welwitschii Hallier f.					X	X	
Jacquemontia tamnifolia (L.) Griseb. (J. capitata)		X		X	X	X	X
Lepistemon owariense (P.Beauv.) Hallier f.						X	
Merremia aegyptia (L) Urb.							X
Merremia pinnata (Choisy) Hallier f.					X		
Merremia pterygocaulos (Choisy) Hallier f.					X	X	X
Merremia tridentata (L.) Hallier f. subsp. angustifolia (Jacq.) Ooststr.	X	X		X	X	X	X
Paralepistemon shirensis (Oliv.) Lejoly & Lisowski (Turbina shirensis)					X	X	X
Seddera suffruticosa (Schinz) Hallier f.		X	X		X		X
Turbina holubii (Baker) A.Meeuse		X			X		X
Crassulaceae							
Crassula expansa Dryand. subsp. fragilis (Baker) Tölken (C. browniana)					X		
Kalanchoe brachyloba Britten		X					
Kalanchoe laciniata (L.) DC.					X		
Kalanchoe lanceolata (Forssk.) Pers.	X	X	X	X	X		X
Kalanchoe lateritia Engl. var. lateritia							X
Kalanchoe paniculata Harv.	X	X			X		X
Cucurbitaceae							
Acanthosicyos naudinianus (Sond.) C.Jeffrey (Citrullus naudinianus)	X	X		X	X	X	
Cirtullus lanatus (Thunb.) Matsum.& Nakai		X		X			
Coccinia adoensis (A.Rich.) Cogn.		X		X			X
Coccinia rehmannii Cogn.	X						X
Corallocarpus bainesii (Hook.f.) A.Meeuse (C. sphaerocarpus)	X	X	X				
Corallocarpus wildii C.Jeffrey	X						
Ctenolepis cerasiformis (Stocks) Hook.f.	X	X					X
Cucumis africanus L.f.		X					
*Cucumis anguria L.	X	X				X	X
Cucumis hirsutus Sond.					X	X	X
Cucumis humifructus Stent							X
Cucumis metuliferus Naudin	X	X	X		X	X	X
Cyclantheropsis parviflora (Cogn.) Harms					X	X	
Kedrostis foetidissima (Jacq.) Cogn.					X		
Kedrostis hirtella (Naudin) Cogn				X			
Kedrostis leloja (Forssk.) C.Jeffrey							X
Lagenaria sphaerica (Sond.) Naudin	X				X	X	
*Luffa cylindrica (L.) M.Roem. (L. aegyptiaca)					X	X	X
Momordica balsamina L.	X	X	X	X	X		X
Momordica boivinii Baill.						X	X
Momordica cardiospermoides Klotzsch (M. clematidea)		X			X	X	
Momordica foetida Schumach.					X	X	
Momordica humilis (Cogn.) C.Jeffrey				X			
Momordica kirkii (Hook.f.) C.Jeffrey					X		X
Mukia maderaspatana (L.) M.Roem.		X					X
Trochomeria debilis (Sond.) Hook.f.	X						
Zehneria marlothii (Cogn.) R.& A.Fern.	X	X		X			
Zehneria scabra (L.f.) Sond. subsp. scabra (Melothria punctata)					X		X
Zehneria sp. (SRGH No.1, PAS 1162)		X					
Cuscutaceae							
Cuscuta australis R.Br.	X						

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Cuscuta campestris Yunck.	X						
Cuscuta planiflora Ten. var. planiflora							X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Dichapetalaceae							
Dichapetalum cymosum (Hook.) Engl.	X	X		X			X
Dichapetalum rhodesicum Sprague & Hutch.					X	X	X
Dipterocarpaceae							
Monotes dasyanthus Gilg						X	
Monotes discolor R.E.Fr.						X	
Monotes engleri Gilg							X
Monotes glaber Sprague		X			X	X	X
Monotes katangensis (De Wild.) De Wild.						X	
Monotes redheadii P.A.Duvign.						X	
Droseraceae							
Aldrovanda vesiculosa L.	X	X					
Drosera burkeana Planch.					X		
Drosera madagascariensis DC.	X						
Ebenaceae							
Diospyros batocana Hiern		X			X	X	X
Diospyros chamaethamnus Mildbr.	X			X	X	X	
Diospyros kirkii Hiern						X	X
Diospyros lycioides Desf. Subsp. Lycioides	X			X			
Diospyros lycioides Desf. Subsp. Sericea (Bernh.) De Winter		X		X	X	X	X
Diospyros mespiliformis A.DC.	X	X		X	X	X	X
Diospyros pallens (Thunb.) F.White						X	
Diospyros quiloensis (Hiern) F.White					X		X
Diospyros senensis Klotzsch						X	X
Diospyros squarrosa Klotzsch		X			X		X
Diospyros virgata (Gürke) Brenan					X	X	
Euclea crispa (Thunb.) Gürke (E. dekindti, E. lanceolata)				X		X	
Euclea divinorum Hiern	X	X		X	X	X	X
Euclea natalensis A.DC. (E. multifora)						X	
Euclea racemosa Murray subsp. Schimperi (A.DC.) F.White					X	X	X
Euclea undulata Thunb.			X				
Elatinaceae							
Bergia ammannioides Roth	X	X					X
Bergia aquatica Roxb.							X
Bergia decumbens Harv.				X		X	X
Bergia glutinosa Dinter & Schulze-Menz		X					
Bergia pentherana Keissl. (B. prostrata)	X	X		X			X
Bergia polyantha Sond.	X	X		X			X
Elatine triandra Schkuhr	X	X					
Erythroxylaceae							
Erythroxylum emarginatum Thonn.					X	X	
Erythroxylum zambesiacum N.Robson		X			X	X	X
Euphorbiaceae							
Acalypha acrogyna Pax						X	
Acalypha allenii Hutch.						X	X
Acalypha ambigua Pax						X	
Acalypha chirindica S.Moore					X	X	
Acalypha ciliata Forssk.	X			X	X	X	X
Acalypha crenata A.Rich.							X
Acalypha fimbriata Schumach.& Thonn.							X
Acalypha indica L.	X	X	X			X	X
Acalypha ornata A.Rich.	X	X		X	X	X	X
Acalypha pubiflora Baill.	X						

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Acalypha segetalis Müll.Arg.					X		X
Acalypha villicaulis Hochst. (A. senensis)		X			X	X	
Alchornea occidentalis (Müll.Arg.) Pax & K.Hoffm.					X	X	
Antidesma rufescens Tul.				X			
Antidesma venosum Tul.	X	X		X	X	X	X
Bridelia cathartica G.Bertol.		X		X	X	X	X
Bridelia duvigneaudii J.Léonard					X	X	
Bridelia micrantha (Hochst.) Baill.						X	
Bridelia mollis Hutch.		X					X
Bridelia tenuifolia Müll.Arg.				X			
Caperonia fistulosa Beille (C. palustris)	X	X				X	
Cephalocroton mollis Klotzsch (C. pueschelii)	X	X	X				
Clutia abyssinica Jaub.& Spach					X		
Croton gratissimus Burch. (C. zambesicus)	X	X		X	X	X	X
Croton leuconeurus Pax		X		X	X	X	X
Croton longipedicellatus J.Léonard subsp. Longipedicellatus				X			X
Croton megalobotrys Müll.Arg.	X	X		X	X	X	X
Croton menyharthii Pax	X	X		X	X	X	X
Croton polytrichus Pax subsp. Brachystachyus Radcl.-Sm.					X	X	
Croton pseudopulchellus Pax		X			X		X
Croton scheffleri Pax					X	X	
Drypetes gerrardii Hutch.						X	
Erythrococca menyharthii (Pax) Prain	X	X		X	X	X	X
Erythrococca trichogyne (Müll.Arg.) Prain						X	
Euphorbia benthami Hiern					X		
Euphorbia cooperi A.Berger var. calidicola L.C.Leach							X
Euphorbia cooperi A.Berger var. cooperi							X
Euphorbia crotonoides Boiss. Subsp. Crotonoides	X				X		X
*Euphorbia cyathophora Murray							X
Euphorbia espinosa Pax				X	X	X	X
Euphorbia eylesii Rendle (E. leshumensis)	X	X			X		X
Euphorbia fortissima L.C.Leach					X	X	X
Euphorbia guerichiana Pax		X					
*Euphorbia heterophylla L.	X				X		X
*Euphorbia hirta L.	X			X	X		
Euphorbia inaequilatera Sond. Var. inaequilatera	X	X				X	X
*Euphorbia indica Lam.		X					
Euphorbia ingens Boiss.	X				X	X	
Euphorbia lupatensis N.E.Br.							X
Euphorbia malevola L.C.Leach							X
Euphorbia matabelensis Pax					X	X	X
Euphorbia monteiri Hook.f.	X						
Euphorbia mossambicensis (Klotzsch & Garcke) Boiss.	X				X		
Euphorbia oatesii Rolfe						X	X
Euphorbia prostrata Aiton	X						X
Euphorbia rubriflora N.E.Br.					X		X
Euphorbia schinzii Pax							X
*Euphorbia serpens Kunth							X
Euphorbia spissiflora S.Carter		X					X
Euphorbia systyloides Pax					X	X	
Euphorbia tettensis Klotzsch						X	
*Euphorbia tirucalli L.	X						
Euphorbia transvaalensis Schltr.				X	X	X	X
Euphorbia zambesiana Benth. Var. zambesiana					X		
Excoecaria bussei (Pax) Pax					X	X	X
Flueggea virosa (Willd.) Voigt (Securinega virosa)	X	X	X	X	X	X	X
Hymenocardia acida Tul. Var. acida					X	X	X
Jatropha baumi Pax					X		

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Jatropha erythropoda Pax & K.Hoffm.				X			
Jatropha seineri Pax	X				X	X	X
Mallotus oppositifolius (Geiseler) Müll.Arg. var. oppositifolius						X	
*Manihot esculenta Crantz (M. utilissima)				X			
Maprounea africana Müll.Arg.					X	X	
Margaritaria discoidea (Baill.) G.L.Webster var. discoidea (Phyllanthus discoideus)					X	X	X
Margaritaria discoidea (Baill.) G.L.Webster var. nitida (Pax) Radcl.-Sm.							X
Micrococca mercurialis (L.) Benth.	X				X		X
Oldfieldia dactylophylla (Oliv.) J.Léonard					X	X	
Phyllanthus engleri Pax					X	X	
Phyllanthus fraternus G.L.Webster (P. niruri)		X			X		X
Phyllanthus hutchinsonianus S.Moore					X		
Phyllanthus leucanthus Pax					X		X
Phyllanthus maderaspatensis L.		X	X		X	X	X
Phyllanthus mendesii Radcl.-Sm.							X
Phyllanthus muellerianus (Kuntze) Exell						X	
Phyllanthus nummulariifolius Poir.	X				X		
Phyllanthus omahakensis Dinter & Pax							X
Phyllanthus parvulus Sond. Var. parvulus							X
Phyllanthus pentandrus Schumach.& Thonn.		X			X		X
Phyllanthus reticulatus Poir.	X	X		X	X	X	X
Phyllanthus virgulatus Müll.Arg.						X	
Phyllanthus welwitschianus Müll.Arg.					X	X	
Pseudolachnostylis maprouneifolia Pax	X	X		X	X	X	X
Pterococcus africanus (Sond.) Pax & K.Hoffm.		X					X
*Ricinus communis L.		X	X	X			
Sapium ellipticum (C.Krauss) Pax						X	
Sapium oblongifolium (Müll.Arg.) Pax					X	X	
Sapium schmitzii J.Léonard						X	
Schinziophyton rautanenii (Schinz) Radcl.-Sm. (Ricinodendron rautanenii)	X	X		X	X	X	X
Synadenium angolense N.E.Br. (S. grantii)						X	
Tragia benthamii Baker					X		
Tragia brevipes Pax					X		X
Tragia gardneri Prain		X					
Tragia kirkiana Müll.Arg.					X		X
Tragia okanyua Pax	X	X		X	X	X	X
Uapaca kirkiana Müll.Arg.					X	X	
Uapaca nitida Müll.Arg.					X	X	
Uapaca pilosa Hutch. (U. benguelensis)						X	
Uapaca sansibarica Pax						X	
Fabaceae: Caesalpinioideae							
*Senna obtusifolia (L.) Irwin & Barneby		X					X
Afzelia quanzensis Welw.		X		X	X	X	X
Baikiaea plurijuga Harms	X	X		X	X		X
Bauhinia galpinii N.E.Br.					X		
Bauhinia mendoncae Torre & Hillc.						X	
Bauhinia petersiana Bolle subsp. Macrantha (Oliv.) Brummitt & J.H.Ross	X	X	X	X	X	X	X
Bauhinia petersiana Bolle subsp. Petersiana					X	X	X
Bauhinia tomentosa L.						X	X
Bauhinia urbaniana Schinz				X	X	X	
Brachystegia bakeriana Burtt Davy & Hutch.					X	X	
Brachystegia boehmii Taub.		X			X		
Brachystegia floribunda Benth.						X	
Brachystegia glaucescens Burtt Davy & Hutch.					X		
Brachystegia manga De Wild.						X	

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Brachystegia spiciformis Benth.		X			X	X	X
Brachystegia taxifolia Harms						X	
Brachystegia utilis Burtt Davy & Hutch.						X	
Brachystegia wangermeeana De Wild.						X	
Burkea africana Hook.	X	X		X	X	X	X
*Caesalpinia decapetala (Roth) Alston							X
Caesalpinia rubra (Engl.) Brenan		X					
Cassia abbreviata Oliv.		X			X	X	X
Chamaecrista absus (L.) Irwin & Barneby (Cassia absus)					X	X	X
Chamaecrista biensis (Steyaert) Lock		X					
Chamaecrista falcinella (Oliv.) Lock var. parviflora (Steyaert) Lock (Cassia falcinella)	X	X			X		X
Chamaecrista fenarolli (Mendonça & Torre) Lock (Cassia fenarolii)	X						X
Chamaecrista kirkii (Oliv.) Standl. (Cassia kirkii)					X		
Chamaecrista meelii (Steyaert) Lock (Cassia meeli)						X	
Chamaecrista mimosoides (L.) Greene (Cassia mimosoides)	X	X		X	X	X	X
Chamaecrista stricta E.Mey. (Cassia quarrei)					X	X	
Colophospermum mopane (Benth.) J.Léonard	X	X	X	X	X	X	X
Copaifera baumiana Harms					X	X	
Cryptosepalum exfoliatum De Wild. Subsp. Pseudotaxus (Baker f.) P.A.Duvign.& Brenan					X	X	
Cryptosepalum maraviense Oliv.						X	
Dialium angolense Oliv.						X	
Dialium englerianum Henriq.	X	X		X	X	X	X
Erythrophleum africanum (Benth.) Harms		X		X	X	X	X
Erythrophleum suaveolens (Guill.& Perr.) Brenan (E. guineense)						X	
Guibourtia coleosperma (Benth.) J.Léonard	X	X		X	X	X	X
Guibourtia conjugata (Bolle) J.Léonard							X
Hoffmannseggia lactea (Schinz) Schinz			X				
Isoberlinia angolensis (Benth.) Hoyle & Brenan						X	
Julbernardia globiflora (Benth.) Troupin		X			X	X	X
Julbernardia paniculata (Benth.) Troupin					X	X	
Parkinsonia africana Sond.		X					
Peltophorum africanum Sond.	X	X	X	X	X	X	X
Piliostigma thonningii (Schumach.) Milne-Redh.	X	X		X	X	X	X
Pterolobium stellatum (Forssk.) Brenan						X	
Senna obtusifolia (L.) Irwin & Barneby (Cassia obtusifolia)	X	X			X	X	
*Senna occidentalis (L.) Link (Cassia occidentalis)	X			X	X		X
*Senna septemtrionalis (Viv.) Irwin & Barneby							X
Senna singueana (Delile) Lock (Cassia singuena)					X	X	X
Tamarindus indica L.					X		X
Tylosema esculentum (Burch.) A.Schreiber		X					
Tylosema fassoglense (Schweinf.) Torre & Hillc.					X	X	X
Fabaceae: Mimosoideae							
Acacia amythethophylla A.Rich.						X	
Acacia arenaria Schinz	X	X	X	X			X
Acacia ataxacantha DC.	X	X	X	X	X	X	X
Acacia eriocarpa Brenan							X
Acacia erioloba E.Mey.	X	X	X	X	X	X	X
Acacia erubescens Oliv.	X	X	X	X	X	X	X
Acacia fleckii Schinz	X	X	X	X	X	X	X
Acacia galpinii Burtt Davy	X	X			X	X	X
Acacia gerrardii Benth. Subsp. Gerrardii	X	X			X	X	X
Acacia goetzei Harms subsp. Goetzei					X	X	X
Acacia goetzei Harms subsp. Microphylla Brenan						X	
Acacia grandicornuta Gerstner			X				
Acacia hebeclada DC. Subsp. Chobiensis (O.B.Mill.) A.Schreib.	X	X		X			X
Acacia hebeclada DC. Subsp. Hebeclada	X	X	X	X			X
Acacia karroo Hayne	X	X	X				X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Acacia kirkii Oliv. Subsp. Kirkii		X	X		X		X
Acacia luederitzii Engl. Var. luederitzii	X	X	X		X		X
Acacia mellifera (Vahl) Benth. Subsp. Detinens (Burch.) Brenan	X	X	X	X	X		X
Acacia nebrownii Burtt Davy		X	X				X
Acacia nigrescens Oliv.	X	X	X	X	X	X	X
Acacia nilotica (L.) Delile subsp. Kraussiana (Vatke) Brenan	X	X	X		X	X	X
Acacia pilispina Pichi-Sermolli						X	
Acacia polyacantha Willd. Subsp. Campylacantha (A.Rich.) Brenan	X	X			X	X	X
Acacia robusta Burch. Subsp. Clavigera (E.Mey.) Brenan		X				X	X
Acacia schweinfurthii Brenan & Exell	X	X			X	X	X
Acacia senegal (L.) Willd. Var. leiorhachis Brenan							X
Acacia senegal (L.) Willd. Var. rostrata Brenan		X	X				
Acacia seyal Delile						X	
Acacia sieberiana DC. Var. woodii (Burtt Davy) Keay & Brenan	X	X		X	X	X	X
Acacia stuhlmannii Taub.		X	X				
Acacia tortilis (Forssk.) Hayne subsp. Heteracantha (Burch.) Brenan	X	X	X	X			X
Acacia tortilis (Forssk.) Hayne subsp. Spirocarpa (A.Rich.) Brenan	X	X					X
Albizia adianthifolia (Schumach.) W.Wight						X	
Albizia amara (Roxb.) Boivin					X	X	X
Albizia anthelmintica (A.Rich.) Brongn.	X	X	X	X	X	X	X
Albizia antunesiana Harms		X	X	X	X	X	X
Albizia brevifolia Schinz		X			X	X	X
Albizia glaberrima (Schumach.& Thonn.) Benth.					X	X	
Albizia harveyi E.Fourn.	X	X		X	X	X	X
Albizia tanganyikensis Baker f.		X			X	X	X
Albizia versicolor Oliv.	X	X		X	X	X	X
Amblygonocarpus andongensis (Oliv.) Exell & Torre		X		X	X	X	X
Dichrostachys cinerea (L.) Wight & Arn.	X	X	X	X	X	X	X
Elephantorrhiza elephantina (Burch.) Skeels				X			
Elephantorrhiza goetzei (Harms) Harms subsp. Goetzei	X	X			X	X	X
Entada abyssinica A.Rich.						X	
Entada arenaria Schinz subsp. Arenaria (E. nana)	X				X	X	
Entada chrysostachys (Benth.) Drake							X
Faidherbia albida (Delile) A.Chev.	X	X	X	X	X	X	X
Mimosa pigra L.	X	X		X	X	X	X
Neptunia oleracea Lour.	X	X		X		X	X
Fabaceae: Papilionoideae							
Abrus precatorius L. subsp. Africanus Verdc.	X	X		X	X	X	X
Abrus pulchellus Thwaites subsp. Suffruticosus (Boutique) Verdc.					X	X	
Adenodolichos punctatus (Micheli) Harms						X	
Adenodolichos rhomboideus (O.Hoffm.) Harms						X	
Aeschynomene cristata Vatke var. cristata	X	X			X		
Aeschynomene fluitans Peter	X			X		X	
Aeschynomene indica L.	X	X		X	X	X	X
Aeschynomene mimosifolia Vatke					X		
Aeschynomene nilotica Taub.	X			X			
Aeschynomene schimperi A.Rich.						X	
Aeschynomene trigonocarpa Baker f.						X	
Aeschynomene uniflora E.Mey.					X		
Alysicarpus rugosus (Willd.) DC. Subsp. Rugosus	X	X			X	X	X
Alysicarpus zeyheri Harv.	X	X				X	
Astragalus atropilosulus (Hochst.) Bunge subsp. Burkeanus (Harv.) J.B.Gillett						X	
Baphia capparidifolia Baker subsp. Bangweolensis (R.E.Fr.) Brummitt						X	
Baphia massaiensis Taub. Subsp. Obovata (Schinz) Brummitt	X	X		X	X	X	X
Bolusanthus speciosus (Bolus) Harms		X	X		X		X
Calpurnia aurea (Aiton) Benth. Subsp. Aurea				X			
Canavalia africana Dunn (C. virosa)					X	X	X
Craibia affinis (De Wild.) De Wild.						X	

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Crotalaria aculeate De Wild.						X	
Crotalaria anthyllopsis Baker						X	
Crotalaria barkae Schweinf.	X						
Crotalaria barnabassii Baker f.						X	
Crotalaria bequaertii Baker f.						X	
Crotalaria calycina Schrank						X	
Crotalaria cephalotes A.Rich.						X	X
Crotalaria cylindrocarpa DC.						X	
Crotalaria cylindrostachys Baker							X
Crotalaria damarensis Engl.		X			X		X
Crotalaria distans Benth. Subsp. Macaulayae (Baker f.) Polhill							X
Crotalaria distans Benth. Subsp. Mediocris Polhill	X	X					
Crotalaria flavicarinata Baker f.				X	X	X	X
Crotalaria florida Baker						X	
Crotalaria goreensis Guill.& Perr.						X	
Crotalaria kapiriensis De Wild.						X	X
Crotalaria laburnifolia L. subsp. Laburnifolia	X				X		X
Crotalaria laxiflora Baker						X	
Crotalaria ochroleuca G.Don	X					X	
Crotalaria orientalis I.Verd. subsp. Allenii (I.Verd.) Polhill & A.Schreib.							X
Crotalaria pallidicaulis Harms (C. arthrophylla)	X	X			X		X
Crotalaria pisicarpa Baker		X		X	X	X	X
Crotalaria platysepala Harv.	X			X	X		X
Crotalaria podocarpa DC.					X		X
Crotalaria rhodesiae Baker f.						X	
Crotalaria senegalensis (Pers.) DC.	X				X		
Crotalaria sphaerocarpa DC. Subsp. Sphaerocarpa	X	X		X	X		X
Crotalaria steudneri Schweinf.	X						
Crotalaria variegata Baker					X	X	
Crotalaria virgulata Klotzsch		X				X	X
Dalbergia boehmii Taub.						X	
Dalbergia fischeri Taub.						X	
Dalbergia martini F.White					X	X	
Dalbergia melanoxylon Guill.& Perr.		X		X	X	X	X
Dalbergia nitidula Baker					X	X	X
Dalbergiella nyasae Baker f.						X	X
Decorsea schlechteri (Harms) Verdc.					X		X
Desmodium barbatum (L.) Benth.					X	X	X
Desmodium gangeticum (L.) DC.						X	
Desmodium helenae Buscal.& Muschl.					X		
Desmodium ospriostreblum Chiov.							X
Desmodium repandum (Vahl) DC.					X		
Desmodium salicifolium (Poir.) DC. Var. salicifolium	X	X		X	X	X	X
Desmodium tortuosum (Sw.) DC.					X		
Desmodium velutinum (Willd.) DC.						X	
Dolichos junodii (Harms) Verdc.	X		X				
Dolichos kilimandscharicus Taub. (D. malosanus)						X	
Dolichos linearifolius I.M.Johnst.						X	
Dolichos petiolatus Wilczek						X	
Dolichos pseudocajanus Baker						X	
Dolichos trinervatus Baker						X	
Droogmansia pteropus (Baker) De Wild. Var. pteropus (D. platypus)						X	
Eminia holubii (Hemsl.) Taub.						X	
Eriosema burkei Benth.		X				X	
Eriosema ellipticum Baker					X	X	
Eriosema macrostipulum Baker f. (E. erectum)						X	
Eriosema pauciflorum Klotzsch		X			X	X	X
Eriosema psoraleoides (Lam.) G.Don					X	X	X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Eriosema schirense Baker f.						X	
Erythrina abyssinica DC. (E. tomentosa)					X	X	
Erythrina baumii Harms (E. mendesii)	X			X			
Erythrina latissima E.Mey.		X					
Humularia bequaertii (D.Wild.) P.A.Duvign.						X	
Indigofera annua Milne-Redh.							X
Indigofera arenophila Schinz				X	X	X	X
Indigofera arrecta A.Rich.					X	X	
Indigofera astragalina DC.	X				X		X
Indigofera atriceps Hook.f.						X	
Indigofera bainesii Baker	X	X					
Indigofera candicans Aiton				X			
Indigofera charlieriana Schinz		X			X		
Indigofera colutea (Burm.f.) Merr.	X			X	X	X	X
Indigofera congesta Baker						X	
Indigofera costata Guill.& Perr. Subsp. Macra (E.Mey.) J.B.Gillett	X	X					
Indigofera daleoides Harv. Var. daleoides	X	X	X				
Indigofera demissa Taub.				X			
Indigofera eylesiana J.B.Gillett							X
Indigofera fanshawei J.B.Gillett						X	
Indigofera flavicans Baker	X	X	X	X	X	X	X
Indigofera griseoides Harms					X		
Indigofera heterotricha DC.		X					
Indigofera hirsuta L.		X			X	X	X
Indigofera hololeuca Harv.				X			
Indigofera inhambanensis Klotzsch				X			
Indigofera livingstoniana J.B.Gillett					X		X
Indigofera lupatana Baker f.						X	X
Indigofera microcalyx Baker					X		
Indigofera nummulariifolia (L.) Alston (I. Echinata)					X	X	
Indigofera ormocarpoides Baker					X	X	X
Indigofera podocarpa Baker f.& Martin					X	X	
Indigofera praticola Baker f.	X						X
Indigofera quarrei Cronq.						X	
Indigofera rautanenii Baker f.				X			
Indigofera rhynchocarpa Baker						X	
Indigofera schimperi Jaub.& Spach		X			X		
Indigofera setiflora Baker						X	X
Indigofera spicata Forssk.					X	X	X
Indigofera strobilifera (Hochst.) Baker					X		
*Indigofera suffruticosa Mill.	X						
Indigofera sutherlandioides Baker					X	X	
Indigofera tinctoria L. var. arcuata J.B.Gillett	X	X					
Indigofera trita L.f. var. subulata (Poir.) Ali	X	X		X		X	X
Indigofera vicioides Jaub.& Spach	X				X	X	X
Kotschya strobilantha (Baker) Dewit & P.A.Duvign.					X	X	
Lablab purpureus (L.) Sweet subsp. Uncinatus Verdc. (L. niger, L. vulgaris)	X			X	X	X	X
Lessertia benguellensis Baker f.	X						
Lessertia emarginata Schinz		X					
Lessertia falciformis DC.		X					
Lotononis listii Polhill							X
Macrotyloma africanum (R.Wilczek) Verdc. (Dolichos africanus)					X	X	
Macrotyloma axillare (E.Mey.) Verdc. (Dolichos axillaris)						X	
Macrotyloma daltonii (Webb) Verdc.							X
Macrotyloma densiflorum (Baker) Verdc. (Dolichos densiflorus)					X	X	
Macrotyloma ellipticum (R.E.Fr.) Verdc. (Dolichos ellipticus)						X	
Macrotyloma rupestre (Baker) Verdc. (Dolichos rupestris)						X	
Mucuna coriacea Baker						X	

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Mucuna glabrialata (Hauman) Verdc.						X	
Mucuna pruriens (L.) DC.					X	X	
Mundulea sericea (Willd.) A.Chev.	X	X		X	X	X	X
Neonotonia wightii (Wight & Arn.) J.A.Lackey subsp. Wightii (Glycine wightii)	X				X	X	X
Neorautanenia mitis (A.Rich.) Verdc. (N. amboensis, N. pseudopachyrhiza)	X	X		X	X	X	
Ophrestia radicosa (A.Rich.) Verdc. (Paraglycine radicosa)						X	
Ormocarpum kirkii S.Moore					X		X
Otoptera burchelii DC.	X	X	X				X
Pericopsis angolensis (Baker) Meeuwen					X	X	
Philenoptera nelsii (Schinz) Schrire (Lonchocarpus nelsii)	X	X		X	X	X	X
Philenoptera violaceae (Klotze) Schrire (Lonchocarpus capassa)	X	X	X	X	X	X	X
Philenoptera wankiensis Mendonça & E.P.Sousa (Lonchocarpus eriocalyx subsp. Wankieensis)							X
Pseudarthria hookeri Wight & Arn.					X	X	
Pterocarpus angolensis DC.	X	X		X	X	X	X
Pterocarpus brenanii Barbosa & Torre					X		
Pterocarpus lucens Guill.& Perr. Subsp. Antunesii (Taub.) Rojo		X		X	X	X	X
Pterocarpus rotundifolius (Sond.) Druce subsp. martini (Dunkley) Lock		X					
Pterocarpus rotundifolius (Sond.) Druce subsp. Polyanthus (Harms) Mendonça & E.P.Sousa		X					X
Pterocarpus rotundifolius (Sond.) Druce subsp. Rotundifolius					X	X	X
Pycholobium contortum (N.E.Br.) Brummitt	X	X					
Requienia pseudosphaerosperma (Schinz) Brummitt					X		X
Requienia spaerosperma DC.	X	X					
Rhynchosia caribaea (Jacq.) DC.					X	X	
Rhynchosia densiflora (Roth) DC. Subsp. Chrysadenia (Taub.) Verdc.		X					
Rhynchosia hirta (Andrews) Meikle & Verdc.						X	
Rhynchosia holosericea Schinz					X	X	X
Rhynchosia insignis (O.Hoffm.) R.E.Fr.						X	
Rhynchosia luteola (Hiern) K.Schum. var. verdickii (De Wild.) Verdc. (R. verdicki)					X		
Rhynchosia minima (L.) DC.	X	X		X	X	X	X
Rhynchosia nyasica Baker						X	
Rhynchosia procurrens (Hiern) K.Schum. subsp. Floribunda (Baker) Verdc. (R. floribunda)						X	
Rhynchosia resinosa (A.Rich.) Baker						X	X
Rhynchosia sublobata (Schumach.& Thonn.) Meikle		X				X	X
Rhynchosia totta (Thunb.) DC. Var. totta	X				X		X
Rothia hirsuta (Guill.& Perr.) Baker				X	X		
Sesbania bispinosa (Jacq.) W.F.Wight	X	X					X
Sesbania brevipedunculata J.B.Gillett	X	X					
Sesbania cinerascens Baker	X	X		X			
Sesbania leptocarpa DC. (S. mossambicensis)		X	X				
Sesbania microphylla E.Phillips & Hutch.	X	X		X		X	X
Sesbania pachycarpa DC. Subsp. Dinterana J.B.Gillett				X			
Sesbania rostrata Bremek.& Oberm.	X						
Sesbania sesban (L.) Merr. Subsp. Sesban (S. aegyptiaca)	X	X		X	X	X	X
Sesbania tetraptera Baker subsp. Rogersii (E.Phillips & Hutch.) G.P.Lewis	X	X		X	X		X
Sphenostylis erecta (Baker f.) Baker f.					X	X	
Sphenostylis marginata E.Mey.					X	X	
Stylosanthes fruticosa (Retz.) Alston (S. mucronata)				X		X	X
Swartzia madagascariensis Desv.		X		X	X	X	X
Tephrosia acaciaefolia Baker				X		X	X
Tephrosia amoena E.Mey.				X			
Tephrosia caerulea Baker f.	X			X	X	X	X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Tephrosia cephalantha Baker var. decumbens Baker					X	X	X
Tephrosia dregeana E.Mey. var. dregeana				X			
Tephrosia elata Deflers						X	
Tephrosia euprepes Brummitt							X
Tephrosia kasikiensis Baker f.					X		
Tephrosia linearis (Willd.) Pers.						X	
Tephrosia longipes Meisn.		X			X	X	
Tephrosia lupinifolia DC. (Lupiniphyllum lupinifolium)	X	X			X	X	X
Tephrosia lurida Sond. Var. lurida							X
Tephrosia paniculata Baker					X	X	
Tephrosia pumila (Lam.) Pers. Var. pumila							X
Tephrosia purpurea (L.) Pers. Subsp. Leptostachya (DC.) Brummitt	X	X		X	X	X	X
Tephrosia radicans Baker						X	
Tephrosia reptans Baker					X		
Tephrosia rhodesica Baker f.						X	
Tephrosia stormsii De Wild. Var. stormsii							X
Tephrosia uniflora Pers. Subsp. Uniflora							X
Vigna antunesii Harms (V. nuda)						X	
Vigna frutescens A.Rich.					X		
Vigna luteola (Jacq.) Benth.	X	X			X		X
Vigna oblongifolia A.Rich. var. oblongifolia (V. lancifolia)				X	X	X	
Vigna parkeri Baker subsp. Maranguensis (Taub.) Verdc.					X		
Vigna pygmaea R.E.Fr.						X	
Vigna unguiculata (L.) Walp. Subsp. Dekindtiana (Harms) Verdc.	X	X				X	X
Vigna vexillata (L.) A.Rich.					X	X	
Xeroderris stuhlmannii (Taub.) Mendonça & E.P.Sousa		X		X	X	X	X
Zornia glochidiata DC.					X		
Zornia milneana Mohlenbr.	X				X	X	X
Zornia pratensis Milne-Redh.					X		
Flacourtiaceae							
Flacourtia indica (Burm.f.) Merr.	X			X	X	X	X
Homalium abdessammadii Asch.& Schweinf. Subsp. Wildemanianum (Gilg) Wild	X			X	X	X	X
Oncoba spinosa Forssk.	X	X		X	X	X	X
Scolopia zeyheri (Nees) Harv.						X	
Gentianaceae							
Canscora diffusa (Vahl) Roem.& Schult.					X		
Canscora kirkii N.E.Br.					X		X
Chironia palustris Burch.		X			X		X
Enicostema axillare (Lam.) A.Raynal (E. hyssopifolium)		X		X			X
Exacum oldenlandioides (S.Moore) Klackenb. (E. quinquenervium)		X			X		
Faroa acaulis R.E.Fr.						X	
Faroa amara Baker							X
Faroa salutaris Welw.						X	X
Pycnosphaera buchananii (Baker) N.E.Br.	X						
Sebaea debilis (Welw.) Schinz				X			
Sebaea grandis (E.Mey.) Steud.							X
Sebaea pentandra E.Mey. var. burchellii (Gilg) Marais					X		X
Sebaea sp. (PAS 4630)		X					
Monsonia angustifolia A.Rich.	X			X			
Monsonia ovata Cav.					X		
Monsonia senegalensis Guill.& Perr.	X				X		X
Halogoraceae							
*Myriophyllum spicatum L.		X		X	X		X
Laurembergia tetranda (Schott) Kanitz subsp. Brachypoda (Hiern) A.Raynal (L. repens)	X	X					
Hernandiaceae							
Gyrocarpus americanus Jacq. Subsp. Africanus Kubitzki					X		X
Hydnoraceae							

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Hydnora abyssinica Schweinf.	X						
Icacinaceae							
Apodytes dimidiata Arn.						X	
Ixonanthaceae							
Ochthocosmus lemaireanus De Wild.& T.Durand (Phyllocosmos lemaireanus)						X	

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Lamiaceae							
Acrocephalus rupestris R.E.Fr.						X	
Acrocephalus sericeus Briq.					X	X	
Acrotome angustifolia G.Taylor	X	X					X
Acrotome inflata Benth.		X		X	X		
Aeollanthus engleri Briq. (A. conglomeratus)						X	
Aeollanthus myrianthus Baker						X	
Aeollanthus neglectus (Dinter) Launert							X
Aeollanthus rehmannii Gürke		X					
Aeollanthus suaveolens Spreng. (A. heliotropoides)						X	
Basilicum polystachyon (L.) Moench							X
Becium angustifolium (Benth.) N.E.Br.		X					
Clerodendrum buchneri Gürke	X					X	
Clerodendrum capitatum (Willd.) Schum.& Thonn.					X	X	
Clerodendrum eriophyllum Gürke (C. glabrum)		X			X	X	
Clerodendrum pusillum Gürke						X	
Clerodendrum ternatum Schinz (C. lanceolatum)	X	X			X	X	X
Coleus drymophilus G.Taylor					X		
Endostemon tereticaulis (Poir.) M.R.Ashby			X				X
Englerastrum gracillimum T.C.E.Fr.						X	
Englerastrum hjalmarii T.C.E.Fr.					X		
Englerastrum schweinfurthii Briq.				X	X	X	X
Haumaniastrum callianthum (Briq.) Gilli (Acrocephalus callianthus)						X	
Haumaniastrum galeopsifolium (Baker) P.A.Duvign.& Plancke (Acrocephalus galeopsifolius)					X		
Hemizygia bracteosa (Benth.) Briq.	X	X		X	X	X	X
Hemizygia linearis (Benth.) Briq.		X					
Hemizygia petrensis (Hiern) M.R.Ashby				X			
Holostylon baumii (Gürke) G.Taylor					X	X	
Hoslundia opposita Vahl	X	X		X	X	X	X
*Hyptis pectinata (L.) Poit.	X	X		X	X	X	X
*Hyptis spicigera Lam.	X					X	
Iboza riparia (Hochst.) N.E.Br.					X	X	
Kalaharia uncinata (Schinz) Moldenke (Clerodendrum uncinatum)	X	X		X	X	X	X
Leonotis nepetifolia (L.) W.T.Aiton		X		X	X	X	X
Leonotis ocymifolia (Burm.f.) Iwarsson var. raineriana (Vis.) Iwarsson (L. randii)			X				X
Leucas martinicensis (Jacq.) R.Br.							X
Leucas nyassae Gürke						X	
Leucas sexdentata Skan		X	X				
Leucas tettensis Vatke (L. descampsii, L. stricta)					X	X	X
Mentha aquatica L.	X	X					
Neohyptis paniculata (Baker) J.K.Morton	X						
Ocimum americanum L. (O. canum, O. fruticulosum)	X	X	X		X	X	X
Ocimum angustifolium Benth.							X
Ocimum filamentosum Forssk.							X
Ocimum gratissimum L. subsp. Gratissimum (O. urticifolium)				X	X	X	
Ocimum obovatum Benth. Var. obovatum	X					X	X
Orthosiphon rubicundus (D.Don) Benth.						X	X
Plectranthastrum rosmarinifolium (Welw.) Mathew (Alvesia					X	X	

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
rosmarinifolia)							
Plectranthus candelabriformis Launert						X	X
Plectranthus caninus Roth							X
Plectranthus cylindraceus Benth.					X	X	
Plectranthus esculentus N.E.Br. (Coleus esculentus)					X	X	
Plectranthus hereroensis Engl.	X				X		
Plectranthus kapatensis (R.E.Fr.) ined. (Coleus kapatensis)					X	X	
Plectranthus mirabilis (Briq.) Launert				X			
Plectranthus tetensis (Baker) Agnew (Coleus vagatus)	X			X	X		X
Plectranthus tetragonus Gürke (P. biflorus)	X				X		
Premna senensis Klotzsch		X			X	X	X
Pycnostachys coerulea Hook.	X						
Pycnostachys dewildemanniana Robyns & J.-P.Lebrun						X	
Pycnostachys orthodonta Gürke						X	
Pycnostachys stuhlmannii Gürke						X	
Rotheca myricoides (Hochst.) D.A.Steane & Mabb. (Clerodendrum myricoides)	X				X	X	X
Rotheca wildii (Moldenke) R.Fern. (Clerodendrum wildii)					X	X	X
Scutellaria schweinfurthii Briq. Subsp. Paucifolia (S. paucifolia)						X	
Solenostemon decumbens (Hook.f.) Baker					X		
Solenostemon latifolius (Benth.) J.K.Morton					X		
Solenostemon shirensis (Gürke) Codd (S. zambesiaca)					X		
Tetradenia riparia (Hochst.) Codd							X
Tinnea eriocalyx Welw.		X					
Tinnea rhodesiana S.Moore		X		X		X	X
Tinnea vestita Baker					X	X	X
Tinnea zambesiaca Baker					X	X	X
Vitex ferruginea Schum.& Thonn. Subsp. Amboniensis (Gürke) Verdc. (V. amboniensis)					X		
Vitex madiensis Oliv.					X	X	
Vitex mombassae Vatke		X		X	X	X	X
Vitex payos (Lour.) Merr. (V. hildebrandtii)				X	X	X	X
Vitex petersiana Klotzsch					X		X
Lauraceae							
Cassytha filiformis L.	X	X			X	X	X
Lecythidaceae							
Napoleona gossweileri Baker f.					X		
Lentibulariaceae							
Genlisea africana Oliv.					X		
Utricularia arenaria A.DC.	X			X	X		
Utricularia australis R.Br. (U. vulgaris)		X					X
Utricularia benjaminiana Oliv.	X			X			
Utricularia cymbantha Oliv.	X						
Utricularia firmula Oliv.					X		
Utricularia foliosa L.	X	X		X			X
Utricularia gibba L.	X	X		X	X		X
Utricularia inflexa Forssk.	X	X		X	X	X	
Utricularia livida E.Mey.							X
Utricularia reflexa Oliv.	X	X		X			
Utricularia scandens Benj.	X	X					
Utricularia stellaris L.f.	X	X		X			X
Utricularia subulata L.	X				X		
Utricularia tortilis Oliv.	X						
Linaceae							
*Linum usitatissimum L.				X			
Lobeliaceae							
Lobelia angolensis Engl.& Diels	X	X					X
Lobelia erinus L. (L. nuda)		X			X		X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Lobelia kirkii R.E.Fr.					X		X
Lobelia livingstoniana R.E.Fr.					X		
Monopsis decipiens (Sond.) Thulin		X					
Loganiaceae							
Anthocleista liebrechtsiana De Wild.& T.Durand				X	X		
Gomphostigma virgatum (L.f.) Baill.					X	X	
Nuxia oppositifolia (Hochst.) Benth.					X	X	X
Strychnos cocculoides Baker	X	X		X	X	X	X
Strychnos gossweileri Exell (S. caespitosa)					X	X	
Strychnos innocua Delile					X	X	
Strychnos lucens Baker						X	
Strychnos madagascariensis Poir.		X				X	X
Strychnos potatorum L.f.		X		X	X	X	X
Strychnos pungens Soler.	X	X		X	X	X	X
Strychnos spinosa Lam.		X		X	X	X	X
Strychnos usambarensis Gilg						X	
Loranthaceae							
Actinanthella menyharthii (Shinz.) Balle							X
Agelanthus nyasicus (Baker & Sprague) Polhill & Wiens							X
Agelanthus pungu (De Wild.) Polhill & Wiens (Loranthus bulawayensis)					X		
Erianthemum ngamicum (Sprague) Danser	X	X					X
Erianthemum virescens (N.E.Br.) Wiens & Polhill							X
Oliverella rubroviridis Tiegh.					X	X	X
Plicosepalus kalachariensis (Schinz) Danser	X			X			
Tapinanthus dependens (Engl.) Danser (T. guttatus)		X					
Tapinanthus oleifolius (J.C.Wendl.) Danser (Loranthus quinquangulus, L. oleifolius)	X	X		X	X		X
Lythraceae							
Ammannia auriculata Willd. (Nesaea dinteri subsp. Elata)	X	X			X	X	X
Ammannia baccifera L. subsp. Baccifera	X	X			X		X
Ammannia prieuriana Guill.& Perr.	X	X				X	X
Ammannia senegalensis Poir. Var. multifida Roxb.							
Ammannia senegalensis Poir. Var. odongana (Koehne) Verdc. (Nesaea odongana subsp. Odongana)	X	X		X			X
Ammannia wormskioldii Fisch.& C.A.Mey.							X
Nesaea aspera (Guill.& Perr.) Koehne							X
Nesaea cordata Hiern				X			
Nesaea crassicaulis (Guill.& Perr.) Koehne	X	X		X	X		X
Nesaea erecta Guill.& Perr.						X	X
Nesaea heptamera Hiern							X
Nesaea minima Immelman		X					
Nesaea radicans Guill.& Perr. Var. floribunda (Sond.) A.Fern.	X	X					X
Nesaea radicans Guill.& Perr. Var. radicans	X	X			X		X
Nesaea rautanenii Koehne				X			
Nesaea rigidula (Sond.) Koehne	X	X		X	X		X
Nesaea schinzii Koehne		X			X		X
Nesaea sp. (Mavi 118, FHH 274)		X					
Rotala capensis (Harv.) A.Fern.& Diniz	X						
Rotala filiformis (Bellardi) Hiern (R. heterophylla, R. heteropetala)	X	X			X		
Rotala fluitans Pohnert		X					
Rotala longistyla Gibbs	X						
Rotala myriophylloides Hiern	X						X
Rotala serpiculoides Hiern		X					X
Rotala tenella (Guill.& Perr.) Hiern (R. submersa)	X	X					
Malpighiaceae							
Sphedamnocarpus angolensis (A.Juss.) Oliv.					X	X	
Sphedamnocarpus pruriens (A.Juss.) Szyszyl. Var. pruriens							X
Triaspis macropteron Oliv.					X	X	

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Malvaceae							
Abutilon angulatum (Guill.& Perr.) Mast. Var. angulatum	X	X	X	X	X	X	X
Abutilon englerianum Ulbr.	X						
Abutilon fruticosum Guill.& Perr.		X					
Abutilon hirtum (Lam.) Sweet		X					
Abutilon ramosum (Cav.) Guill.& Perr.	X	X		X	X	X	X
Abutilon rehmannii Baker f.		X					
Azanza garckeana (F.Hoffm.) Exell & Hillc.		X	X		X	X	X
Cienfuegosia digitata Cav.		X					
Gossypium herbaceum L. var. africanum (Watt) Vollesen	X	X	X	X			
Hibiscus allenii Sprague & Hutch.	X	X			X		X
Hibiscus articulatus A.Rich.		X			X		X
Hibiscus caesius Garcke		X		X	X	X	X
Hibiscus calyphyllus Cav.	X	X			X	X	
*Hibiscus cannabinus L.		X		X	X		X
Hibiscus diversifolius Jacq. Subsp. Rivularis (Bremek.& Oberm.) Exell	X	X			X		X
Hibiscus dongolensis Delile	X	X				X	X
Hibiscus kirkii Mast.							X
Hibiscus lobatus (Murr.) Kuntze				X	X	X	X
Hibiscus mastersianus Hiern		X			X	X	X
Hibiscus mechowii Garcke				X	X	X	
Hibiscus meeusei Exell				X	X		X
Hibiscus meyeri Harv. Subsp. Transvaalensis (Exell) Exell	X	X					
Hibiscus micranthus L.f.		X	X	X	X		X
Hibiscus mutatus N.E.Br.							X
Hibiscus palmatus Forssk.							X
Hibiscus panduriformis Burm. F.		X				X	
Hibiscus physaloides Guill.& Perr.					X		
Hibiscus platycalyx Mast.	X						
Hibiscus praeteritus R.A.Dyer	X			X	X		X
Hibiscus pusillus Thunb.		X	X				
Hibiscus rhodanthus Gürke					X	X	
Hibiscus schinzii Gürke	X	X	X		X		
Hibiscus seineri Engl.							X
Hibiscus shirensis Sprague & Hutch.					X		
Hibiscus sidiformis Baill. (H. ternifolius)	X		X		X		X
Hibiscus surattensis L.					X		X
Hibiscus trionum L.	X			X			X
Hibiscus vitifolius L.		X			X	X	X
Kosteletzkya buettneri Gürke	X	X		X	X	X	X
Pavonia burchelli (DC.) R.A.Dyer	X	X		X			X
Pavonia clathrata Mast.	X	X		X			X
Pavonia procumbens (Walk.& Arn.) Walp.							X
Pavonia senegalensis (Cav.) Leistner (P. hirsuta)	X	X		X	X	X	X
Sida acuta Burm.f.					X		X
Sida alba L.		X			X	X	X
Sida cordifolia L.	X	X	X	X	X	X	X
Sida hoepfneri Gürke					X		
Sida ovata Forssk.		X					X
Sida rhombifolia L.				X			
Sida urens L.					X		
Urena lobata L.					X	X	X
Wissadula rostrata (Schumach.& Thonn.) Hook.f.	X	X		X	X	X	X
Melastomataceae							
Antherotoma debilis (Sond.) Jacq.-Fél.							X
Antherotoma naudinii Hook.f.						X	
Dissotis debilis (Sond.) Triana	X					X	
Dissotis phaeotricha (Hochst.) Hook.f.						X	

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Dissotis pulchra A.& R.Fern.				X			
Melastomastrum segregatum (Benth.) A.& R.Fern.		X		X	X		X
Memecylon flavovirens Baker						X	
Meliaceae							
Ekebergia benguelensis C.DC.						X	
Ekebergia capensis Sparrm.	X				X	X	
Entandrophragma caudatum (Sprague) Sprague		X			X	X	X
Entandrophragma delevoyi De Wild.						X	
Khaya anthotheca (Welw.) C.DC. (K. nyasica)					X	X	
Trichilia emetica Vahl.		X		X	X	X	X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Turraea nilotica Kotschy & Peyr.		X			X	X	X
Turraea zambesica Hutch.		X			X		X
Melianthaceae							
Bersama abyssinica Fresen.						X	
Menispermaceae							
Cissampelos mucronata A.Rich.	X	X		X	X	X	X
Cissampelos owariensis DC.						X	
*Cocculus hirsutus (L.) Diels	X	X		X	X	X	X
Stephania abyssinica (Quart.-Dill.& A.Rich.) Walp.						X	
Tiliacora funifera (Miers) Oliv.					X	X	X
Tinospora caffra (Miers) Troupin	X					X	X
Tinospora tenera Miers	X				X		X
Menyanthaceae							
Nymphoides brevipedicellata (Vatke) A.Raynal	X	X					
Nymphoides forbesiana (Griseb.) Kuntze		X					X
Nymphoides indica (L.) Kuntze subsp. occidentalis A.Raynal	X	X		X	X		X
Nymphoides rautanenii (N.E.Br.) A.Raynal	X						
Nymphoides tenuissima A.Raynal	X						
Nymphoides thunbergiana (Griseb.) Kuntze	X						
Moraceae							
Dorstenia benguellensis Welw. (D. rhodesiana)						X	
Ficus abutilifolia (Miq.) Miq. (F.soldanella)					X		
Ficus burkei (Miq.) Miq. (F. thonningii)	X	X		X	X	X	X
Ficus bussei Mildbr.& Burret (F. zambesiaca)					X	X	
Ficus capreifolia Delile	X	X			X	X	X
Ficus fischeri Mildbr.& Burret	X			X	X	X	
Ficus glumosa Delile (F. sonderi)						X	X
Ficus ingens (Miq.) Miq.					X	X	X
Ficus natalensis Hochst. subsp. graniticola J.E.Burrows					X	X	
Ficus ovata Vahl (F. brachypoda)	X					X	
Ficus pygmaea Hiern	X	X		X	X	X	
Ficus salicifolia Vahl	X						
Ficus sansibarica Warb. subsp. macrosperma (Mildbr.& Burret) C.C.Berg (F. brachylepis)						X	
Ficus stuhlmannii Warb.					X	X	
Ficus sur Forssk. (F. capensis)					X	X	X
Ficus sycomorus L.	X	X		X	X	X	X
Ficus verruculosa Warb.	X	X		X	X	X	X
Moringaceae							
*Moringa oleifera L.		X					
Myricaceae							
Myrica serrata Lam. (M. conifera)	X	X		X	X	X	X
Myrothamnaceae							
Myrothamnus flabellifolius Welw.					X		X
Myrsinaceae							

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Embelia schimperi Vatke						X	
Maesa lanceolata Forssk.					X	X	
Myrsine africana L.						X	
Myrtaceae							
Eugenia malangensis (O.Hoffm.) Nied. (E. angolensis)					X	X	
*Psidium guajava L.				X			
Syzygium cordatum Krauss	X	X		X	X	X	X
Syzygium guineense (Willd.) DC. subsp. barotsense F.White	X	X		X	X	X	X
Syzygium guineense (Willd.) DC. subsp. guineense (ssp. macrocarpum)						X	
Syzygium guineense (Willd.) DC. subsp. huillense (Hiern.) F.White					X	X	
Nyctaginaceae							
*Boerhavia diffusa L.	X	X	X		X		X
*Boerhavia erecta L.					X		X
Commicarpus plumbagineus (Cav.) Standl. (C. africanus)	X	X		X	X	X	X
Nymphaeaceae							
Nymphaea capensis Thunb.		X		X			
Nymphaea lotus L.	X			X		X	
Nymphaea nouchali Burm.f. var. caerulea (Savigny) Verdc.	X	X		X		X	X
Nymphaea nouchali Burm.f. var. ovallifolia (Conard) Verdc.				X			
Nymphaea nouchali Burm.f. var. petersiana (Klotzsch) Verdc. (N. petersiana)	X	X					
Nymphaea sulphurea Gilg	X						
Ochnaceae							
Ochna afzelioides N.Robson					X	X	
Ochna arenaria De Wild.& T.Durand (Brackenridgea arenaria, O. angustifolia)				X	X	X	X
Ochna cinnabarina Engl.& Gilg	X	X			X	X	X
Ochna gambleoides N.Robson						X	
Ochna inermis (Forssk.) Penz.		X					
Ochna leploclada Oliv.					X	X	
Ochna manikensis De Wild.					X	X	
Ochna puberula N.Robson						X	
Ochna pulchra Hook.f.	X	X		X	X	X	X
Ochna pygmaea Hiern					X	X	
Ochna schweinfurthiana F.Hoffm.					X	X	
Olacaceae							
Olax dissitiflora Oliv.	X	X	X	X	X	X	X
Olax obtusifolia De Wild.					X	X	
Ximenia americana L.	X	X	X	X	X	X	X
Ximenia caffra Sond.	X	X		X	X	X	X
Oleaceae							
Jasminum brachyscyphum Baker							X
Jasminum fluminense Vell. (J. mauritianum)	X	X		X	X	X	X
Jasminum stenolobum Rolfe	X	X			X	X	X
Jasminum streptopus E.Mey.					X	X	X
Olea capensis L.						X	
Olea europaea L. subsp. africana (Mill.) P.S.Green					X	X	X
Schrebera trichoclada Welw.		X			X	X	X
Onagraceae							
Epilobium salignum Hausskn.	X						
Ludwigia abyssinica A.Rich.	X			X			X
Ludwigia adscendens (L.) Hara subsp. diffusa (Forssk.) P.H.Raven				X			
*Ludwigia erecta (L.) Hara	X						X
Ludwigia leptocarpa (Nutt.) Hara	X	X		X			X
Ludwigia octovalvis (Jacq.) P.H.Raven	X	X			X	X	X
*Ludwigia palustris (L.) Elliot	X	X			X		
Ludwigia perennis L.	X	X			X		
Ludwigia pulvinaris Gilg					X		
Ludwigia senegalensis (DC.) Troch.	X	X					

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Ludwigia stenorraphe (Brenan) Hara subsp. macrosepala (Brenan) P.H.Raven	X					X	
Ludwigia stolonifera (Guill.& Perr.) P.H.Raven	X	X		X			X
Opiliaceae							
Opilia amentalea Roxb. (O. celtidifolia)						X	
Oxalidaceae							
Biophytum abyssinicum A.Rich.				X			X
Biophytum helenae Buscal.& Muschl. (B. sensitivum)					X		
Oxalis corniculata L. var. radicosa (A.Rich.) Roti Mich.							X
Oxalis purpurescens Salter				X			
Papaveraceae							
*Argemone mexicana L.			X		X	X	X
*Argemone ochroleuca Sweet	X			X			
Passifloraceae							
Adenia digitata (Harv.) Engl. (A. senensis)					X	X	X
Adenia gummifera (Harv.) Harms					X	X	
Basananthe hanningtoniana (Mast.) W.J.de Wilde (Tryphostemma hanningtonianum)	X				X	X	X
Paropsia brazzeana Baill.	X	X		X	X	X	X
Viridivia suberosa J.H.Hemsl.& Verdc.						X	
Pedaliaceae							
Ceratotheca sesamoides Engl.		X			X		X
Ceratotheca triloba (Bernh.) Hook.f.			X		X		X
Dicerocaryum eriocarpum (Decne.) Abels (D. zanguebarium)	X	X		X	X	X	X
Harpagophytum procumbens (Burch.) Meisn.	X	X			X		
Harpagophytum zeyheri Decne. subsp. sublobatum (Engl.) Ihlenf.& H.E.K.Hartmann							X
Holubia saccata Oliv.		X					
Pterodiscus ngamicus Stapf							X
Sesamothamnus lugardii Stapf		X					
Sesamum alatum Thonn.	X	X	X				X
Sesamum angolense Welw.					X		
Sesamum calycinum Welw. subsp. baumii (Stapf) Seidenst.	X	X		X	X	X	X
Sesamum schinzianum Aschers.				X			
Sesamum triphyllum Asch.		X					
Periplocaceae							
Ectadiopsis oblongifolia (Meisn.) Schltr. (Cryptolepis oblongifolia)				X			
Phytolaccaceae							
Lophiocarpus tenuissimus Hook.f. (Microtea tenuissima)		X	X	X			
Plumbaginaceae							
Plumbago zeylanica L.	X	X	X	X	X	X	X
Podostemaceae							
Ledermanniella tenax (C.H.Wright) C.Cusset (Inversodicraea tenax)		X			X		
Tristicha trifaria (Willd.) Spreng.		X			X		
Polygalaceae							
Polygala albida Schinz	X			X	X	X	
Polygala capillaris Harv.	X						
Polygala erioptera DC.	X				X		X
Polygala hottentotta C.Presl.		X					
Polygala kalaxariensis Schinz	X					X	
Polygala petitiana A.Rich. subsp. parviflora (Exell) Paiva	X						
Polygala schinziana Chodat		X			X		
Polygala sphenoptera Fresen. (P. persicariifolia)					X	X	X
Securidaca longipedunculata Fresen.				X	X	X	X
Polygonaceae							
Oxygonum alatum Burch.	X	X	X				
Oxygonum delagoense Kuntze		X		X			X
Oxygonum dregeanum Meisn.	X						
Oxygonum sinuatum (Meisn.) Dammer	X	X			X	X	X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Persicaria attenuata (R.Br.) Sojak subsp. africana K.L.Wilson (Polygonum pulchrum, P. tomentosum)	X	X		X	X	X	X
Persicaria lapathifolia (L.) S.F.Gray (Polygonum lapathifolium)					X		X
*Persicaria limbata (Meisn.) H.Hara	X	X	X			X	X
Persicaria senegalensis (Meisn.) Sojak (Polygonum senegalense)	X	X		X			X
Persicaria serrulata (Lag.) Webb & Moq. (Polygonum salicifolium)	X	X		X	X	X	X
Polygonum meisnerianum Cham.& Schltdl.	X	X					
Polygonum plebeium R.Br.	X		X				X
Polygonum strigosum R.Br.	X			X			
Rumex sagittatus Thunb.			X			X	
Portulacaceae							
Avonia rhodesica (N.E.Br.) G.D.Rowley							X
Portulaca foliosa Ker Gawl.							X
Portulaca hereroensis Schinz	X						X
Portulaca kermesina N.E.Br.		X					
*Portulaca oleracea L.	X				X	X	X
Portulaca quadrifida L.	X						
Talinum portulacifolium (Forssk.) Schweinf.	X	X			X	X	X
Talinum tenuissimum Dinter (T. crispatulatum)	X				X	X	X
Primulaceae							
Anagallis pumila Sw.					X		
Samolus valerandi L.							X
Proteaceae							
Faurea rochetiana (A.Rich.) Pic.Serm. (F. speciosa)						X	
Faurea saligna Harv.	X					X	
Protea angolensis Welw.					X	X	
Protea gaguedi J.F.Gmel.	X	X			X	X	X
Protea madiensis Oliv.						X	
Protea micans Welw. (P. tricophylla)	X					X	
Protea petiolaris (Hiern) Baker & C.H.Wright					X	X	
Protea welwitschii Engl.						X	
Ranunculaceae							
Clematis brachiata Thunb.	X		X	X	X	X	X
Clematopsis villosa (DC.) Hutch. (C. scabiosifolia)	X				X	X	X
Ranunculus multifidus Forssk.		X			X		
Resedaceae							
Oligomeris dipetala (Aiton) Turcz. var. dipetala		X					
Rhamnaceae							
Berchemia discolor (Klotzsch) Hemsl.	X	X		X	X	X	X
Helinus integrifolius (Lam.) Kuntze (H. scandens)	X	X			X	X	X
Ziziphus abyssinica A.Rich.					X	X	X
*Ziziphus mauritiana Lam.					X		
Ziziphus mucronata Willd.	X	X	X	X	X	X	X
Rhizophoraceae							
Cassipourea malosana (Baker) Alston						X	
Rosaceae							
Alchemilla kiwuensis Engl.							X
Rubus apetalus Poir. (R. exsuccus, R. rigidus)	X	X			X		
Rubiaceae							
Agathisanthemus bojeri Klotzsch subsp. bojeri					X	X	X
Agathisanthemus globosum (A.Rich.) Bremek.						X	
Ancylanthos rubiginosus Desf. (A. bainesii)		X		X	X	X	X
Canthium burttii Bullock subsp. glabrum Bridson	X	X			X	X	
Canthium glaucum Hiern subsp. frangula (S.Moore) Bridson		X			X	X	X
Canthium lactescens Hiern						X	
Canthium pseudorandii Bridson							X
Carphalea pubescens (Klotszch) Verdc.		X			X	X	X
Catunaregam spinosa (Thunb.) Tirveng.		X					X
Crossopteryx febrifuga (G.Don) Benth.		X		X	X	X	X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Diodia sarmentosa Sw. (D. scandens)					X	X	
Fadogia ancylantha Hiern (Temnocalyx obovatus)						X	
Fadogia cienkowski Schweinf.					X		
Fadogia fuchsioides Oliv.					X	X	
Fadogia homblei De Wild. (F. monticola)					X	X	
Fadogia triphylla Baker var. giorgi (De Wild.) Verdc. (F. giorgi)						X	
Fadogia triphylla Baker var. triphylla						X	
Feretia aeruginescens Stapf		X			X	X	X
Gardenia brachythamnus (K.Schum.) Launert		X		X	X	X	X
Gardenia resiniflua Hiern		X			X	X	X
Gardenia subacaulis Stapf & Hutch.					X	X	
Gardenia ternifolia Schumach.& Thonn. subsp. jovis-tonatis (Welw.) Verdc.	X	X			X	X	
Gardenia volkensii K.Schum. subsp. spatulifolia (Stapf & Hutch.) Verdc.	X	X	X	X	X	X	X
Geophila obvallata (Schumach.) Didr. subsp. iodes (K.Schum.) Verdc. (G. ioides)						X	
Hymenodictyon floribundum (Hochst.& Steud.) B.L.Rob.						X	
Hymenodictyon parvifolium Oliv.					X	X	
Keetia venosa (Oliv.) Bridson (Canthium venosum)					X		
Keetia zanzibarica (Klotzsch) Bridson (Canthium zanzibaricum)					X	X	
Kohautia aspera (Roth) Bremek.		X					
Kohautia caespitosa Schnizl. subsp. brachyloba (Sond.) D.Mantell (K. lasiocarpa)	X	X	X	X	X	X	X
Kohautia cuspidata (K.Schum.) Bremek.	X	X				X	
Kohautia longifolia Klotzsch						X	
Kohautia virgata (Willd.) Bremek.	X						X
Leptactina benguelensis (Benth.& Hook.f.) R.D.Good					X	X	
Multidentia crassa (Hiern) Bridson & Verdc. (Canthium crassum)					X		
Oldenlandia affinis (Roem.& Schult.) DC. subsp. fugax (Vatke) Verdc.					X		X
Oldenlandia angolensis K.Schum.	X						
Oldenlandia capensis L.f. var. capensis	X				X		
Oldenlandia capensis L.f. var. pleiosepala Bremek.							X
Oldenlandia corymbosa L. var. caespitosa (Benth.) Verdc.		X			X		X
Oldenlandia fastigiata Bremek.	X						
Oldenlandia goreensis (DC.) Summerh.	X	X					
Oldenlandia herbacea (L.) Roxb.					X		X
Oldenlandia lancifolia (Schumach.) DC.	X	X			X		X
Otiophora scabra Zucc.						X	
Oxyanthus speciosus DC.						X	
Paederia bojeriana (A.Rich.) Drake subsp. foetens (Hiern) Verdc. (P. foetens)					X	X	X
Pavetta cataractarum S.Moore	X	X			X	X	X
Pavetta eylesii S.Moore							X
Pavetta gardeniifolia A.Rich.		X		X			X
Pavetta gardeniifolia A.Rich. (P. assimilis)	X				X	X	
Pavetta lasiopeplus K.Schum. (P. zeyheri)	X				X	X	X
Pavetta pygmea Bremek.					X		
Pavetta schumanniana K.Schum.					X	X	
Pentanisia schweinfurthii Hiern						X	
Pentas angustifolia (DC.) Verdc.						X	X
Pentas herbacea (Hiern) K.Schum.						X	
Pentodon pentandrus (Schumach.& Thonn.) Vatke	X	X			X		X
Psychotria kirkii Hiern					X	X	X
Psychotria spithamea S.Moore					X	X	
Psydrax kraussioides (Hiern) Bridson (Canthium henriquesianum)	X					X	
Psydrax livida (Hiern) Bridson (Canthium huillense)	X			X	X	X	X
Psydrax martinii (Dunkley) Bridson (Canthium martinii)						X	
Psydrax mutimushi Bridson subsp. mutimushi (Canthium captum)						X	

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Psydrax parviflora (Afzel.) Bridson (Canthium vulgare)						X	
Pygmaeothamnus zeyheri (Sond.) Robyns	X				X	X	
Rothmannia capensis Thunb.		X					
Rothmannia engleriana (K.Schum.) Keay					X	X	
Rothmannia fischeri (K.Schum.) Bullock						X	
Rytigynia orbicularis (K.Schum.) Robyns					X	X	
Rytigynia umbellulata (Hiern) Robyns	X				X	X	
Sericanthe andongensis (Hiern) Robbr. (Neorosea andongensis)	X					X	
Sericanthe suffruticosa (Hutch.) Robbr. (Tricalysia suffruticosa)					X	X	
Spermacoce arvensis (Hiern) Good (Borreria arvensis)						X	
Spermacoce bequaertii (De Wild.) Verdc.	X						
Spermacoce dibrachiata Oliv. (Borreria dibrachiata)						X	

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Spermacoce filifolia (Schumach.& Thonn.) Lebrun & Stork (Borreria filifolia)						X	
Spermacoce quadrisulcata (Bremek.) Verdc.	X						
Spermacoce senensis (Klotzsch) Hiern					X		X
Spermacoce subvulgata (K.Schum.) J.G.García var. subvulgata					X		X
Tapiphyllum discolor (De Wild.) Robyns					X	X	
Tapiphyllum velutinum (Hiern) Robyns						X	
Tarenna gossweileri S.Moore	X						
Tarenna luteola (Stapf) Bremek.	X			X	X	X	X
Tarenna neurophylla (S.Moore) Bremek.					X	X	X
Tricalysia angolensis A.Rich.					X	X	
Tricalysia cacondensis Hiern (T. congesta)	X	X		X	X	X	
Tricalysia coriacea (Benth.) Hiern (T. nyassae)						X	
Tricalysia junodii (Schinz) Brenan var. junodii (T. allenii)	X	X			X	X	X
Tricalysia junodii (Schinz) Brenan var. kirkii (Hook.f.) Robbr.	X			X			
Vangueria cyanescens Robyns				X			
Vangueria esculenta S.Moore				X			
Vangueria infausta Burch. (V. tomentosa)	X				X	X	X
Vangueria proschii Briq. (V. lasioclados)		X				X	
Vangueria randii S.Moore					X	X	X
Vangueriopsis lanciflora (Hiern) R.D.Good	X			X	X	X	X
Xeromphis obovata (Hochst.) Keay					X	X	
Rutaceae							
Citropsis daweana Swingle	X	X		X	X	X	
Vepris fanshawei Mendonça					X		
Vepris glomerata (F.Hoffm.) Engl. (Teclea glomerata)						X	
Vepris nobilis (Delile) W.Mziray (Teclea nobilis)					X		
Vepris reflexa I.Verd.							X
Vepris rogersii (Mendonça) W.Mziray							X
Vepris termitaria Mendonça				X	X	X	
Vepris zambesiaca S.Moore					X	X	X
Zanthoxylum chalybeum Engl. (Fagara chalybea)					X		
Zanthoxylum trijugum (Dunkley) P.G.Waterm. (Fagara trijuga)					X	X	
Salicaceae							
Salix mucronata Thunb. subsp. mucronata (S. subserrata)	X	X		X	X	X	X
Salvadoraceae							
Salvadora australis Schweick.							X
Salvadora persica L. var. persica	X						
Salvadora persica L. var. pubescens Brenan	X						
Santalaceae							
Thesium cinereum A.W.Hill						X	
Thesium dissitum N.E.Br.							X
Thesium fastigiatum A.W.Hill					X	X	
Thesium goetzeanum Engl.							X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Thesium gracile A.W.Hill							X
Thesium loppollense Hiern	X						
Thesium magnifructum Hilliard							X
Sapindaceae							
Allophylus abyssinicus (Hochst.) Radlk.							X
Allophylus africanus P.Beauv.		X			X	X	X
Allophylus whitei Exell						X	
Aporrhiza nitida Gilg						X	
Cardiospermum corindum L.	X	X					X
Cardiospermum halicacabum L.	X	X		X	X	X	X
Dodonaea viscosa Jacq.					X		
Haplocoelum foliolosum (Hiern) Bullock					X	X	X
Pappea capensis Eckl.& Zeyh.					X	X	X
Paullinia pinnata L.					X	X	X
Zanha africana (Radlk.) Exell					X	X	X
Sapotaceae							
Chrysophyllum bangweolense R.E.Fr.					X	X	
Englerophytum magalismontanum (Sond.) T.D.Penn. (Bequaertiodendron magalismontanum)	X					X	
Manilkara mochisia (Baker) Dubard	X	X		X	X	X	X
Manilkara obovata (Sabine & G.Don) J.H.Hemsl.					X	X	
Mimusops zeyheri Sond.		X		X	X	X	X
Scrophulariaceae							
Alectra orobanchoides Benth.	X			X			X
Alectra picta (Hiern) Hemsl.							X
Alectra pseudobarleriae (Dinter) Dinter				X			
Alectra sessiliflora (Vahl) Kuntze	X				X		
Alectra vogelii Benth.					X	X	
Aptosimum decumbens Schinz	X	X			X		X
Aptosimum junceum (Hiern) Philcox (Peliostomum leucorrhizum)		X					
Aptosimum lineare Marloth.& Engl.		X					
Buchnera buchneroides (S.Moore) Brenan						X	
Buchnera henriquesiana Engl.		X			X	X	
Buchnera hispida D.Don	X			X	X	X	
Buchnera longispicata Schinz							X
Buchnera prorepens Engl.& Gilg						X	
Buchnera randii S.Moore	X	X					X
Craterostigma plantagineum Hochst.	X					X	X
Crepidorhopalon spicatus (Engl.) Eb.Fisch.	X						X
Cycnium adonense Benth.							X
Cycnium filicalyx (E.A.Bruce) O.J.Hansen	X						X
Cycnium tubulosum (L.f.) Engl. (Rhamphicarpa tubulosa)	X	X		X	X	X	X
Diclis ovata Benth.							X
Diclis petiolaris Benth.	X				X		
Dopatrium junceum (Roxb.) Benth.		X					X
Jamesbrittenia elegantissima (Schinz) Skan (Sutera elegantissima)	X	X		X	X	X	
Jamesbrittenia micrantha (Klotzsch) Hilliard							X
Limnophila bangweolensis (R.E.Fries) Verdc.	X	X					
Limnophila ceratophylloides (Hiern) Skan	X	X		X			
Limnophila fluviatilis A.Chev.							X
Limnophila indica (L.) Druce	X			X			
Limosella capensis Thunb.	X	X					
Lindernia parviflora (Roxb.) Haines (Ilysanthes parviflora)		X			X		X
Lindernia pulchella (Skan) Philcox (Ilysanthes purpurascens)					X		
Mimulus gracilis R.Br.	X				X		X
Rhamphicarpa fistulosa (Hochst.) Benth.	X	X		X	X	X	X
Scoparia dulcis L.					X	X	
Sopubia angolensis Engl.						X	
Sopubia karaguensis Oliv. var. karaguensis (S. welwitschii)						X	X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Sopubia mannii Skan	X	X				X	X
Sopubia ramosa (Hochst.) Hochst.					X	X	
Sopubia simplex (Hochst.) Hochst.					X		
Striga asiatica (L.) Kuntze	X	X	X	X	X	X	X
Striga bilabiata (Thunb.) Kuntze	X			X			
Striga elegans Benth.	X						
Striga forbesii Benth.	X	X			X	X	X
Striga gesnerioides (Willd.) Vatke		X	X	X	X	X	X
Torenia thouarsii (Cham & Schltdl.) Kuntze	X	X					
Selaginellaceae							
Hebenstretia angolensis Rolfe (H. dentata)					X		
Hebenstretia holubii Rolfe		X					
Selago welwitschii Rolfe var. holubii (Rolfe) Brenan							X
Walafrida angolensis (Rolfe) Rolfe (Selago chongweensis)	X	X			X	X	X
Walafrida paniculata (Thunb.) Rolfe (W. saxatilis)	X	X					
Simaroubaceae							
Hannea chlorantha Engl.& Gilg.					X		
Kirkia acuminata Oliv.	X	X	X		X	X	X
Solanaceae							
*Datura ferox L.		X					
*Datura stramonium L.	X				X		
Lycium bosciifolium Schinz		X					
Lycium cinereum Thunb. (sens.lat.; L. tenue)		X	X				
Lycium oxycarpum Dunal				X			
Lycium shawii Roem.& Schult. (L. persicum)						X	
*Nicandra physaloides (L.) Gaertn.					X		
*Physalis peruviana L.				X			X
*Solanum americanum Mill.							X
Solanum catombelense Peyr.	X						
Solanum coccineum Jacq.		X					
Solanum delagoense Dammer	X						
Solanum incanum L.		X	X		X	X	
Solanum kwebense N.E.Br.				X			
Solanum leucosphaerum Dunal	X	X					
*Solanum nigrum L.	X	X		X	X		X
*Solanum panduriforme E.Mey.	X	X	X	X	X	X	
Solanum richardii Dunal						X	
*Solanum seaforthianum Andrews					X		X
Solanum supinum Dunal		X					
Solanum tettense Klotzsch var. renschii (Vatke) A.E.Gonç.		X		X			X
Solanum tomentosum L.		X					
Withania somnifera (L.) Dunal	X	X	X		X		X
Sphenocleaceae							
Sphenoclea zeylanica Gaertn.	X	X					X
Sterculiaceae							
Dombeya kirkii Mast.						X	
Dombeya rotundifolia (Hochst.) Planch.					X	X	X
Dombeya wittei De Wild.& Staner						X	
Hermannia angolensis K.Schum.					X	X	
Hermannia boraginiflora Hook.	X			X			
Hermannia eenii Baker f.	X	X					X
Hermannia glanduligera K.Schum.	X			X	X	X	X
Hermannia guerkeana K.Schum.	X	X					
Hermannia kirkii Mast.	X	X					
Hermannia modesta (Ehrenb.) Mast.		X		X			X
Hermannia quartiniana A.Rich.	X	X			X		X
Hermannia tomentosa (Turcz.) Engl.	X	X	X	X			
Melhania acuminata Mast.	X	X			X	X	X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Melhania forbesii Mast.		X	X	X	X		X
Melhania rehmannii Szyszyl.		X					
Melhania velutina Forssk. (M. ferruginea)				X			
Melhania virescens (K.Schum.) K.Schum. (M. griquensis)	X						
Melochia corchorifolia L.	X	X			X		
Sterculia africana (Lour.) Fiori		X			X	X	X
Sterculia quinqueloba (Garcke) K.Schum.					X		X
Triplochiton zambesiacus Milne-Redh.					X		X
Waltheria indica L. (W. americana)	X	X	X		X	X	X
Thymelaeaceae							
Gnidia chrysantha (Solms) Gilg					X	X	X
Gnidia goetzeana Gilg					X		
Gnidia involucrata A.Rich. (G. buchananii, G. macrorrhiza)					X	X	
Gnidia kraussiana Meisn. var. kraussiana		X		X	X	X	X
Gnidia microcephala Meisn.							X
Gnidia polycephala (C.A.Mey.) Gilg.		X					
Tiliaceae							
Corchorus asplenifolius Burch.	X	X			X		X
Corchorus kirkii N.E.Br.	X						
Corchorus longepedunculatus Mast.							X
Corchorus olitorius L.		X			X		X
Corchorus schimperi Cufod.							X
Corchorus tridens L.	X	X	X	X	X	X	X
Corchorus trilocularis L.	X	X			X		X
Grewia avellana Hiern	X	X		X	X	X	X
Grewia bicolor Juss.	X	X	X	X	X	X	X
Grewia caffra Meisn.	X						
Grewia decemovulata Merxm.					X	X	
Grewia falcistipula K.Schum.	X			X	X	X	
Grewia flava DC.	X	X	X				X
Grewia flavescens Juss. var. flavescens	X	X	X	X	X	X	X
Grewia flavescens Juss. var. olukondae (Schinz) Wild	X	X	X	X	X	X	X
Grewia inaequilatera Garcke (G. cyclopetala)		X					
Grewia monticola Sond.		X			X	X	X
Grewia pachycalyx K.Schum.	X			X	X	X	X
Grewia praecox K.Schum.					X		X
Grewia retinervis Burret	X	X		X	X	X	X
Grewia schinzii K.Schum.	X	X		X	X	X	X
Grewia subspathulata N.E.Br.	X						X
Grewia tenax (Forssk.) Fiori	X						
Grewia villosa Willd.	X	X	X	X			
Triumfetta angolensis Sprague & Hutch.						X	
Triumfetta annua L.					X		X
Triumfetta dekindtiana Engl.					X	X	
Triumfetta heliocarpa K.Schum.						X	
Triumfetta pentandra A.Rich.	X	X					X
Triumfetta reticulata Wild						X	
Triumfetta rhomboidea Jacq.					X		
*Triumfetta tomentosa Bojer					X	X	
Triumfetta trichocarpa A.Rich.					X	X	
Triumfetta welwitschii Mast.						X	
Turneraceae							
Streptopetalum serratum Hochst.							X
Tricliceras glanduliferum (Klotzsch) R.Fern.		X					X
Tricliceras hirsutum (A.& R.Fern.) R.Fern.							X
Tricliceras lobatum (Urb.) R.Fern.	X			X			X
Tricliceras longepedunculatum (Mast.) R.Fern. (Wormskioldia longipedunculta)	X			X	X	X	X
Tricliceras schinzii (Urb.) R.Fern. subsp. schinzii		X					X

Taxa	Area						
	Oka	NBot	Mak	Cap	SZam	Kaf	NZim
Ulmaceae							
Chaetacme aristata Planch.				X		X	
Urticaceae							
Pouzolzia mixta Solms-Laub. (P. hypoleuca)					X		
Vahliaceae							
Vahlia capensis (L.f.) Thunb. subsp. vulgaris Bridson	X	X		X			X
Vahlia dichotoma (Murr.) Kuntze			X		X	X	
Vahlia digyna (Retz.) Kuntze		X					
Verbenaceae							
Chascanum pinnatifidum (L.f.) R.Fern.		X					
Duranta erecta L. (D. repens)						X	
Lantana angolensis Moldenke	X	X		X			X
*Lantana camara L.		X			X		X
Lantana moldenkei R.Fern. (L. rhodesiensis)					X	X	
Lantana rugosa Thunb. (L. salvifolia)		X		X			
*Lantana trifolia L.			X				
Lantana viburnoides (Forssk.) Vahl		X					
Lippia javanica (Burm.f.) Spreng.					X	X	X
Lippia woodii Moldenke (L. wilmsii)					X	X	
Phyla nodiflora (L.) Greene (Lippia nodiflora)	X	X		X			X
Priva flabelliformis (Moldenke) R.Fern. (P. cordiflora var. flabelliformis)	X						
Violaceae							
Hybanthus enneaspermus (L.) F.Müll. var. densiflorus Grey Wilson	X						
Hybanthus enneaspermus (L.) F.Müll. var. enneaspermus							X
Vitaceae							
Ampelocissus africana (Lour.) Merr.	X	X		X	X	X	X
Ampelocissus obtusata (Baker) Planch. subsp. kirkiana (Planch.) Wild & R.B.Drumm.		X		X	X	X	X
Cayratia gracilis (Guill.& Perr.) Suess.					X		X
Cissus cornifolia (Baker) Planch.		X			X	X	X
Cissus crusei Wild & R.B.Drumm.					X		
Cissus guerkeana (Büttn.) Durand & Schinz					X		
Cissus integrifolia (Baker) Planch.					X	X	X
Cissus nymphaeifolia (Baker) Planch.				X			
Cissus petiolata Hook.f.					X		
Cissus quadrangularis L.					X	X	X
Cissus welwitschii (Baker) Planch.							X
Cyphostemma bororense (Klotzsch) Wild & R.B.Drumm.					X	X	X
Cyphostemma buchananii (Planch.) Desc.							X
Cyphostemma chloroleucum (Baker) Wild & R.B.Drumm. (Cissus chloroleuca)						X	
Cyphostemma cirrhosum (Thunb.) Wild & R.B.Drumm.				X	X		X
Cyphostemma congestum (Baker) Wild & R.B.Drumm.	X			X	X	X	X
Cyphostemma crotalarioides (Planch.) Desc.					X		X
Cyphostemma kirkianum (Planch.) Desc.							X
Cyphostemma lovemorei Wild & R.B.Drumm.							X
Cyphostemma lynesii (Dewit) Desc.					X	X	
Cyphostemma rhodesiae (Gilg & M.Brandt) Desc.							X
Cyphostemma viscosum (Gilg & R.E.Fries) Desc.						X	
Rhoicissus revoilii Planch.							X
Rhoicissus tridentata (L.f.) Wild & R.B.Drumm.	X					X	
Zygophyllaceae							
Tribulus terrestris L.	X	X	X		X		X
Tribulus zeyheri Sond.				X			
Zygophyllum simplex L.		X					
TOTAL = 2645 taxa	**1046**	**1442**	**215**	**635**	**1662**	**1188**	**1334**