

**UNRAVELLING MULTIDIMENSIONS OF THE FLORA OF KENYA –
FLORISTICS, HERBIVORY DEFENCES, AND PHYLOGENETIC
DIVERSITY**

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**Thesis presented for the degree of Doctor of Philosophy in Biological Sciences
of the University of Cape Town**

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DEDICATION

This study is dedicated to my wife Naomi N. Mumo, and our daughters Agnes Mbeke and Kerean Mutono, for the support and inspiration they gave to me during the period of the study.

DECLARATION

I, John Mbaluka Kimeu, hereby declare that the work on which this dissertation is based on is my original work and that neither the whole nor any part of it has been, is being, or is to be submitted for another degree in this or any other university. I authorise the University of Cape Town to reproduce for the purpose of research either the whole or a portion of the content in any manner whatsoever.

The dissertation includes one publication that I worked in collaboration with my supervisors and a research associate:

1) **Kimeu, J.M.**, Mwachala, G., Reichgelt, T. and Muasya, A.M. (2020) Characterization of alternative stable vegetation assemblages in a mesic savannah in Kenya. *African Journal of Ecology*. 58: 492–502. (Chapter 3).

I confirm that I have been granted permission by the University of Cape Town's Doctoral Degrees Board to include the one work in my PhD thesis, and my co-authors have agreed that I may include the publication (see Appendix 6).

Signature:

Date: November 29th, 2022

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ABSTRACT

The wealth of plants in the vegetation of Kenya, owing to the country's wide range of climatic and ecological regions, can be complex and hence defies easy definition. This thesis, consisting of a literature review, four data chapters and a synthesis, addresses multiple aspects of that vegetation, including floristics, functional traits and phylogenetics, using a multidimensional approach, with a purpose to disentangle and explain drivers and patterns of the vegetation. The purpose of the study is achieved by focusing on the following four objectives: (1) assessing plant species composition and climate to present correlative support for the three African phytochoria divisions (Afromontane Archipelago, Somali-Masai and Zanzibar-Inhambane) prominent in the vegetation of Kenya; (2) investigate evidence for species filtering on the basis of soil properties maintaining broad-leaved non-spiny *Combretum – Terminalia* and narrow-leaved spiny *Acacia – Commiphora* woodlands mosaics in a mesic savanna ecosystem in south-eastern Kenya; (3) to evaluate structural and chemical plant defense manifestations between woody plants of the broad-leaved non-spiny *Combretum – Terminalia* and narrow-leaved spiny *Acacia – Commiphora* woodlands studied in Objective 2; and (4) to infer age, phylogenetic diversity and structure for the phytochoria of Africa predominantly represented in the vegetation of Kenya.

Objective 1 (chapter 2) assessed community composition and climatic homogeneity phenomena for the three African phytochoria prominent in the vegetation Kenya. To test the phytochoria's taxonomic structure, occurrence data from 32 regional plant inventory checklists distributed across the phytogeographical regions of Kenya were grouped using multivariate analysis techniques. The checklists were intensively searched from published sources (i.e., journal articles and technical reports), which are considered representative of the vegetation of Kenya at species (70%) and

genera (78%) levels, and at least comprise five samples for each phytochorion. To test climatic homogeneities for the studied phytochoria, 19 climatic variables of the BIOCLIM dataset extracted in each of the plant inventory areas were used, and a test of phytochoria-climate correlations executed in the canonical correspondence analysis (CCA). The study results show that vegetation types in Kenya were mainly partitioned by both precipitation and temperature vectors gradients, rather than on discontinuities in phytochoria units. For example, heterogeneity was observed in the Somali-Masai phytochorion, frequently interspersed with granitic hills, supporting montane-like vegetation at their summits. Precipitation was the most influential climatic variable in determining occurrence of vegetation type in the vegetation of Kenya, with its facets perhaps compounded by elevation and temperature. While phytochoria typically represent geographical areas with largely homogenous plant species composition that contrast with other phytochoria, in contrast, data presented in this study demonstrates that the vegetation of Kenya does not support the phytochoria classification. Instead, the vegetation is highly heterogeneous, partitioned by both precipitation and temperature vectors which change rapidly within a short distance particularly in response to elevation gradients.

In chapter 3 (objective 2), I explored if soil characteristic is one of the micro-environmental filters driving and maintaining broad-leaved non-spiny *Combretum* – *Terminalia* and narrow-leaved spiny *Acacia* – *Commiphora* woodlands as mosaics at the mesic savanna landscape of southern Kenya — herein testing evidence for species filtering on the basis of soil properties. I analysed empirical field data of woody species and soil characteristics from 57 plots that included 25 from *Combretum* – *Terminalia* and 32 from *Acacia* – *Commiphora* vegetation formations. I compared floristic composition and soil characteristics between the two systems and correlated edaphic

statuses and vegetation states. I encountered 2,749 woody plant individuals, representing 115 species, 87 genera and 40 families. I found that the two vegetation types had discrete woody species composition and soil characteristics, and a significant species-edaphic association. These results affirmed evidence for species filtering on the basis of soil properties (objective 2) and also a widely held view that soil characteristics are among the important micro-environmental filters driving and maintaining woody vegetation mosaics in the tropics.

Objective 3 (chapter 4), which builds on the results of objective 2, evaluates whether there is a dichotomy on defence traits and perhaps on leaf nutrients levels, where spines and higher leaf nutrients are associated with fine-leaved plants occurring in nutrient richer soils whereas broad-leaved plants occurring in nutrient poor soils have low nutrients but high tannin and carbon levels in their leaves. I used data of 93 plants for eight species from eight sites — four sites from fertile *Acacia* – *Commiphora* vegetation (42 plants) and another four sites from infertile broad-leaved non-spiny *Combretum* – *Terminalia* vegetation (39 plants). Nutrient levels, and chemical and morphological defenses results did not show a consistent divide between the broad-leaved non-spiny *Combretum* – *Terminalia* and narrow-leaved spiny *Acacia* – *Commiphora* woody communities. Instead, the study found a range of defense-trait and leaf nutrients levels combinations. The results, thus, do not support the study hypothesis and only partially upheld the generally view regarding existence of trade-off between structural and chemical defenses for the dry African savannas woody plants partitioned on soil statuses. Instead, the results corroborate the emerging notion that a section of spiny woody species growing in nutrient-rich soils in African savanna landscapes invest in chemical anti-herbivore defenses equally to non-spiny broad-leaved plants growing in nutrient-poor soils in African savannas.

Objective 4 (Chapter 5) inferred age, phylogenetic diversity, as well as phylogenetic structure of three major African phytochoria dominant in the vegetation of Kenya—with the aim to test aspects of “museum and/or cradle” of plant radiations. This was achieved through applications of large-scale DNA barcoding, including novel sequencing of over 200 Kenyan species and adding these to a matrix of ~2000 vascular plants. Maximum Likelihood (ML) methods implemented in RAxML software was used to create study phylogeny, which was dated using fossil-derived calibrations using the penalised likelihood algorithm as implemented in treePL. Phytochoria spatial occurrence data of the sequenced species was obtained from the African Plant Database, and taxon occurrences mapped onto the phylogeny using the phylobase package. The constructed phylogeny and species spatial occurrence data were both analysed in the Picante R-library to compute age, phylogenetic diversity and phylogenetic structure indices, which include phylogenetic diversity (PD), Net Relatedness Index (NRI), Nearest Taxon Index (NTI) and evolutionary distinctiveness (ED) of lineages for each phytochorion. The study found that divergence times for the Somali-Masai lineages are within < 10 Ma, a range that is much younger than of the Afromontane Archipelago and Zanzibar-Inhambane phytochoria. Afromontane Archipelago and Zanzibar-Inhambane phytochoria, in addition to containing taxa of younger divergences (i.e., < 10 Ma), also have lineages older than 10 Ma age range. The Zanzibar-Inhambane phytochorion had relatively higher PD, NRI and NTI values compared to the Somali-Masai and Afromontane Archipelago, while the ED measure among the phytochoria was similar, where the upper and lower quantiles overlapped. However, Zanzibar-Inhambane compared to Afromontane Archipelago and Somali-Masai had a higher number of outlier ED scores.

Investigated phylogenetic indices support the hypothesis that Zanzibar-Inhambane is a “museum” of plant radiations, while the other phytochoria are mostly cradles of evolution.

Overall, contrary to the common standard style in science that relies on a single dimension, a holistic understanding is needed to disentangle drivers and patterns of biodiversity. The current study applied a multidimensional approach to unravel multiple dimensions of the vegetation of Kenya. For example, using novel multivariate techniques that enable a quantitative approach, I have been able to rigorously test the phytochoria classification in the vegetation of Kenya. Through multivariate techniques I have advanced knowledge on ecology of the broad-leaved non-spiny *Combretum* and fine-leaved spiny *Acacia* vegetation types in the mesic savannas of south-eastern Kenya and perhaps elsewhere in Africa. Lastly, through applications of DNA barcoding, the study has contributed a novel insights and data for the vegetation of Kenya, opening opportunities for further work in the country in the field of community phylogenetics.

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CHAPTER ONE: GENERAL INTRODUCTION AND OBJECTIVES

1.1 Introduction

One of the oldest challenges in ecology is to understand the processes that underpin the composition of biological communities. Historically, a common approach used to describe community compositions has been to assess diversity in terms of the number and abundances of species. However, focusing on the number of species does not fully explain patterns of diversity. Biodiversity is, for instance, a complex multifaceted concept that includes scales in space and time, and entities such as species, traits and evolutionary units. Recent research on community assembly is now shifting the emphasis away from simple measures of species diversity to trait- and phylogenetic-based determinants of diversity (see for example Stevens and Gavilanez, 2015; Naeem *et al.*, 2016; Baker *et al.*, 2017). This new approach to explore biodiversities would be of profitable to the vegetation of Kenya.

1.2 An overview of the vegetation of Kenya

The vegetation of Kenya is a microcosm of the African flora, holding lowland forests, montane forests, Afroalpine heaths, and savannas (Figure 1.1). To date, the plant species diversity of Kenya's vegetation has 6293 described indigenous species, belonging to 225 families (Zhou, *et al.*, 2017) among which, 1800 species are woody (Beentje, 1994). The diversity is well documented, as demonstrated by the completed series of Flora of Tropical East Africa (FTEA), Beentje (1994; Kenya Trees, Shrubs and Lianas), and Agnew (2013; Upland Kenya Wild Flowers and Ferns).

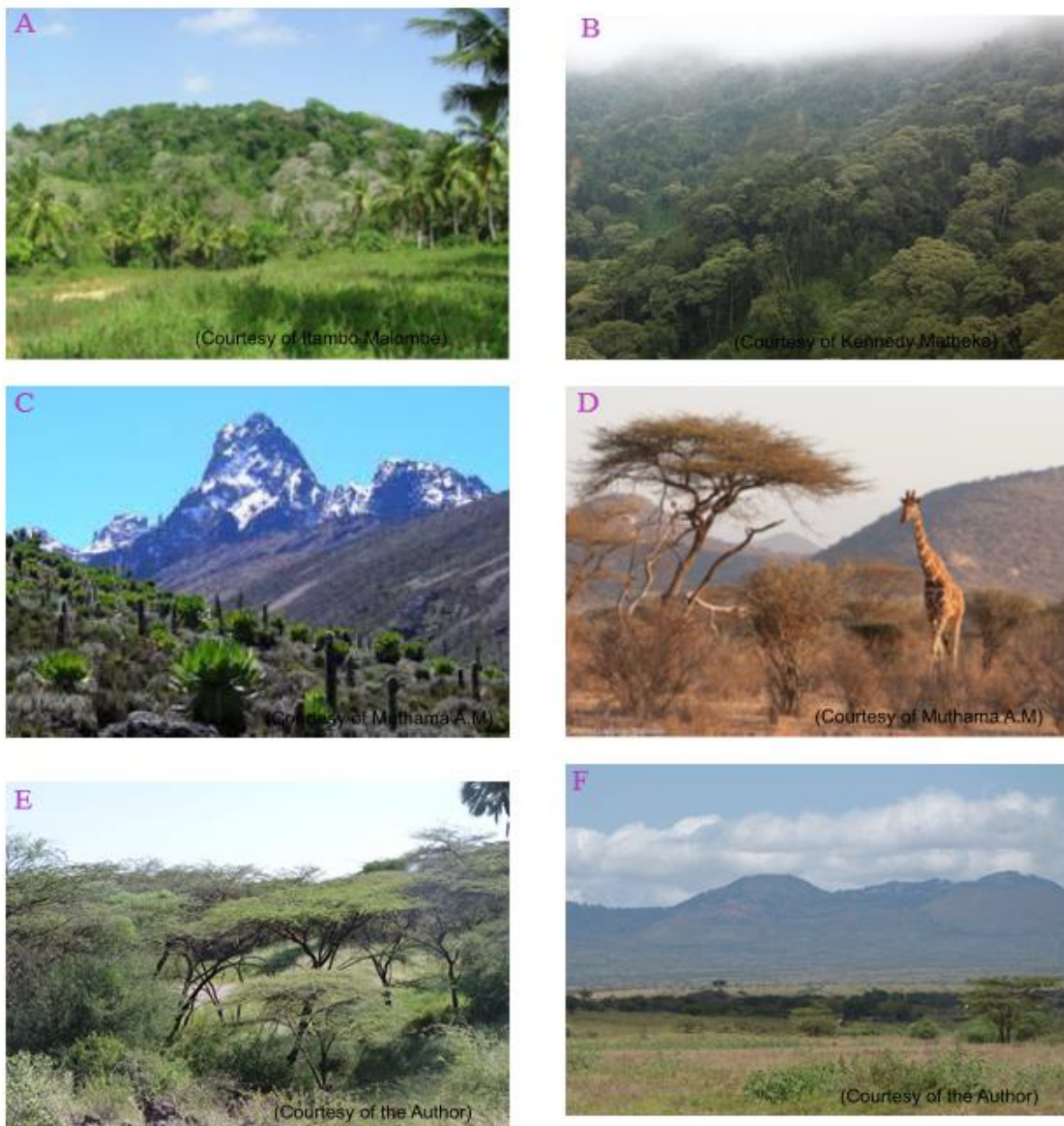


Figure 1.1. Images of African vegetation forms principal to the vegetation of Kenya; lowland (A) and montane (B) forests, Afroalpine heaths (C) and savanna forms (D, E & F)

In addition to its diverse plant species diversity, the vegetation of Kenya also has a diverse range of vegetation types (Beentje, 1994). A summary of its main vegetation types (including sub types) is outlined briefly below:

(a) Forest vegetation: characterized by a continuous stand of trees at least 10 m tall, with interlocking crowns. This vegetation type is divided into five subtypes: i.e., 1) rainforests—with abundant rainfall that is spread over the whole year (e.g., Kakamega forest); 2) moist forest—with rainfall of at least 1500 mm yr¹ and one or two dry periods (e.g., South of Mau, East of Mt. Kenya); 3) dry forests with distinct dry seasons, usually with fewer species than moist forest (e.g., Nairobi forests); 4) riverine forest—narrow belts along rivers, different from the surrounding vegetation and swamp, and; 5) groundwater forest—with areas having high groundwater table (e.g., Taveta).

(b) Woodland vegetation type: characterized by trees at least 8 m tall, whose canopy cover 40% or more, but where crowns are not, or only partially, interlocking (e.g., Coastal *Brachystegia* woodland).

(c) Wooded grassland vegetation type: which has grassland with scattered or grouped trees, and total canopy cover of 10–40% (e.g., Machakos).

(d) Bushed grassland: dominated by woody plants less than 6 m high and total canopy cover of up to 40% (e.g., *Tarchonanthus* in the Rift valley).

(e) Bushland: – whose canopy cover 40% or more, dominated by woody plants 3–7 m high, with grass present but not important. Bushland has four subtypes: (1) *Acacia-Commiphora* bushland—the commonest semi-arid type of bushland (e.g., Kora, Tsavo); (2) semi-evergreen bushland — a transitional type between forest and dry bushland, especially in the north of Kenya; (3) heathzone — above 3000 m elevation, dominated by giant heath; and (4) coastal evergreen bushland and thicket — closed-canopy bushland near the sea, with the canopy 5–7 m high.

(f) Grassland vegetation: has woody plants covering less than 10% of the area; grass covering more than 50%.

(g) Semi-desert vegetation: having large bare areas, some grasses, dwarf shrubs and occasional trees (e.g., near Lodwar).

Moreover, the vegetation of Kenya exists on a confluence of four of the major phytogeographical regions of Africa (White, 1983), which include: 1) the Somali-Masai, 2) Afromontane Archipelago, 3) Zanzibar-Inhambane, and 4) the Guinea-Congolian/Sudanian transition.

1.3 General climates of the vegetation of Kenya

The major natural vegetation zones for the vegetation of Kenya grade into each other along topographic and rainfall inclines (Figures 1.2 & 1.3), corresponding to ecoclimatic zones. For example, the north and east part of Kenya is generally low lying ($\leq 1300\text{m a.s.l.}$; see Figures 1.3), and (except the areas along of the coastal belt) corresponds to semi-arid to arid and very arid ecoclimatic zones (Figure 1.4) characteristic of savanna vegetation, comprising of mostly shrublands, woodlands and deserts (i.e., Chalbi desert in northern Kenya) [Beentje, 1994]. The coastal belt of Kenya, however, unlike the other low lying areas of north and east part of Kenya which have dry climate and a savanna vegetation, gets a wet climate able to sustain forests (lowland forests) because of its proximity to the Indian Ocean — although the forests occur in small remnant patches (e.g., Shimba hills, Arabuko forest, Kinondo forest), perhaps owing to the modifications of natural landscapes by human (Burgess *et al.*, 1998). The highland areas of Kenya (situated in the central and western portion of the country), on the other hand, have considerably lowered temperatures and higher rainfalls climate with a montane forests vegetation — although at elevation of 3000 m or more above sea level, the highland areas of Kenya higher mountains (i.e., Mt. Kenya, Mt. Elgon, Aberdares, e.t.c.) experience severe cold climate that filter out the montane forests vegetation to support a frost-tolerant vegetation comprising Afroalpine heaths (Hedberg 1970).

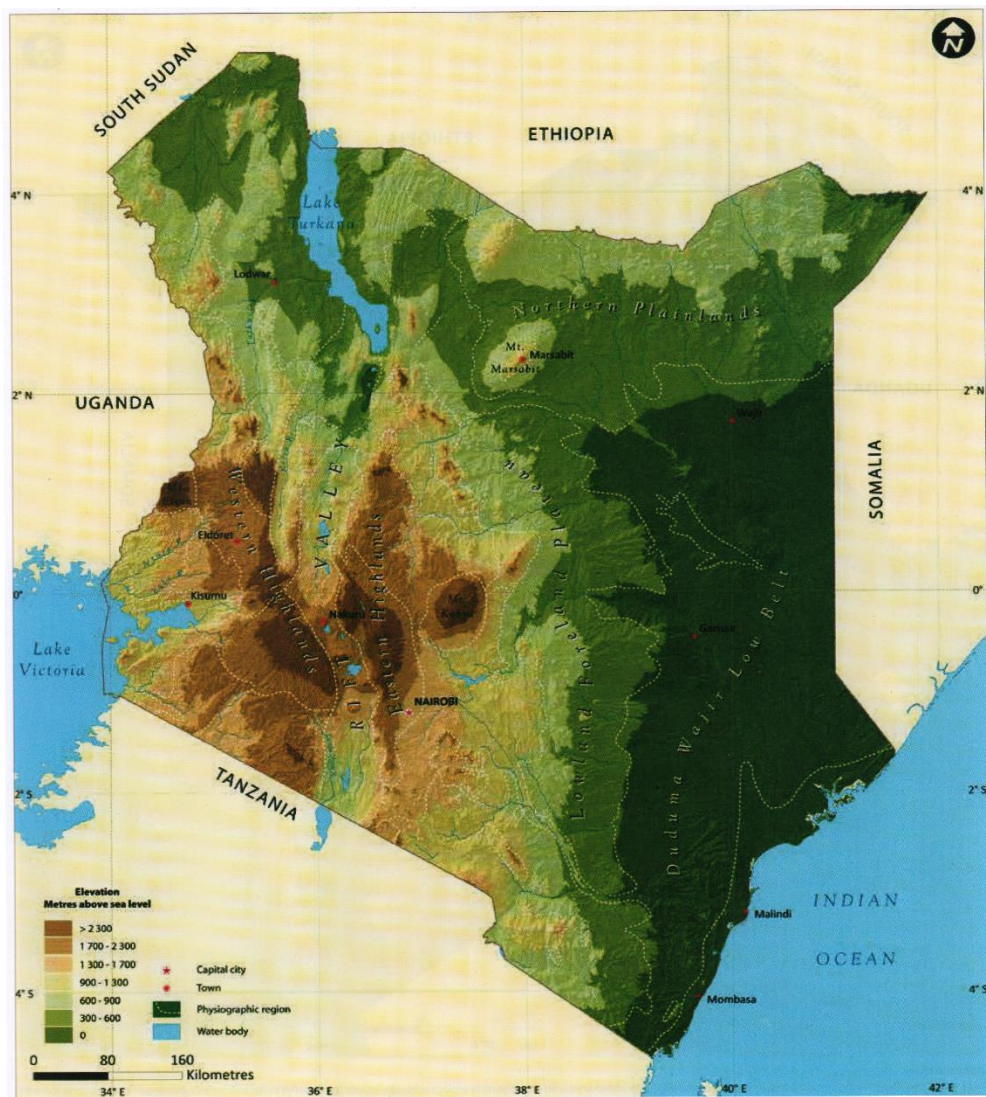


Figure 1.2. Kenya's landscape topographical features (after MEWNR, 2015)

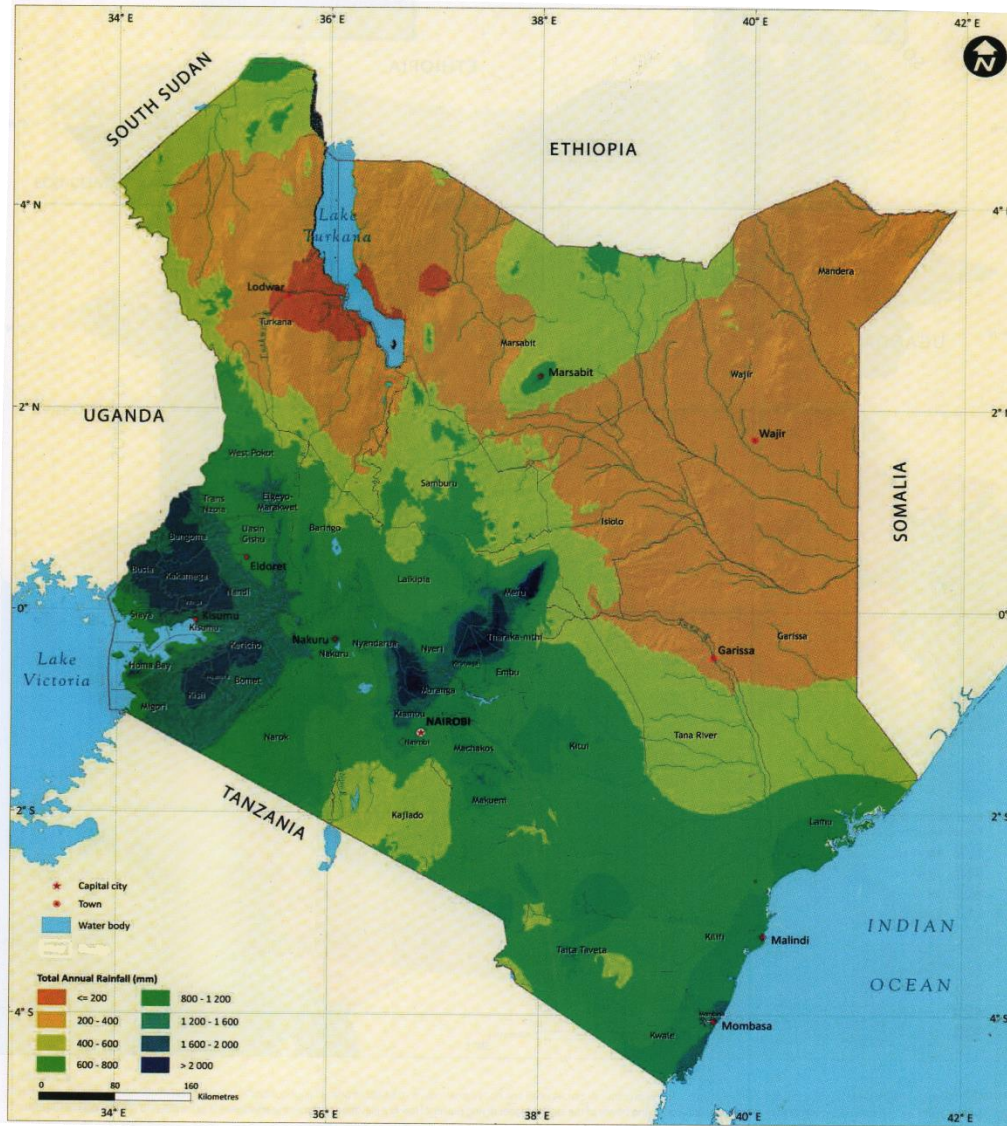


Figure 1.3. A map showing total annual rainfall for the landscapes of Kenya (after MEWNR, 2015)

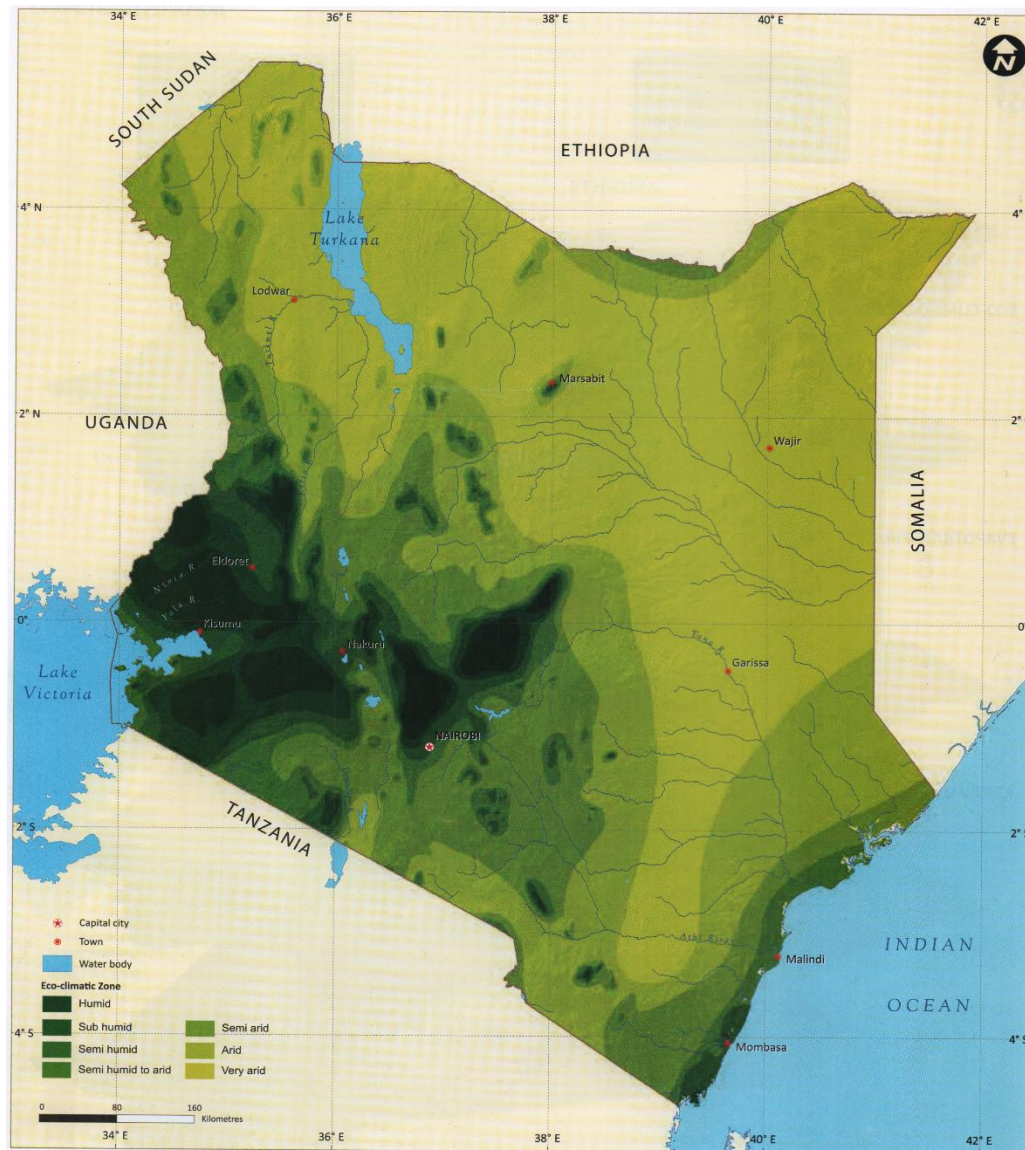


Figure 1.4. A map showing eco-climatic zonations for Kenya (after MEWNR, 2015)

1.4 Geology and topographical features of the vegetation of Kenya

The geology of Kenya is very diverse (Figure 1.5). The country's geological strata and its varied topographical features (see Figure 1.2), both, provide a template at which the interplay of climate, soil and hydrology create distinctive eco-climate zones. Within each of the eco-climatic divisions, variations in topography, soils and hydrology create locally distinctive ecosystems. Each of these

ecological zones has a characteristic assemblage of plants (and animals) adapted to its geography and climate.

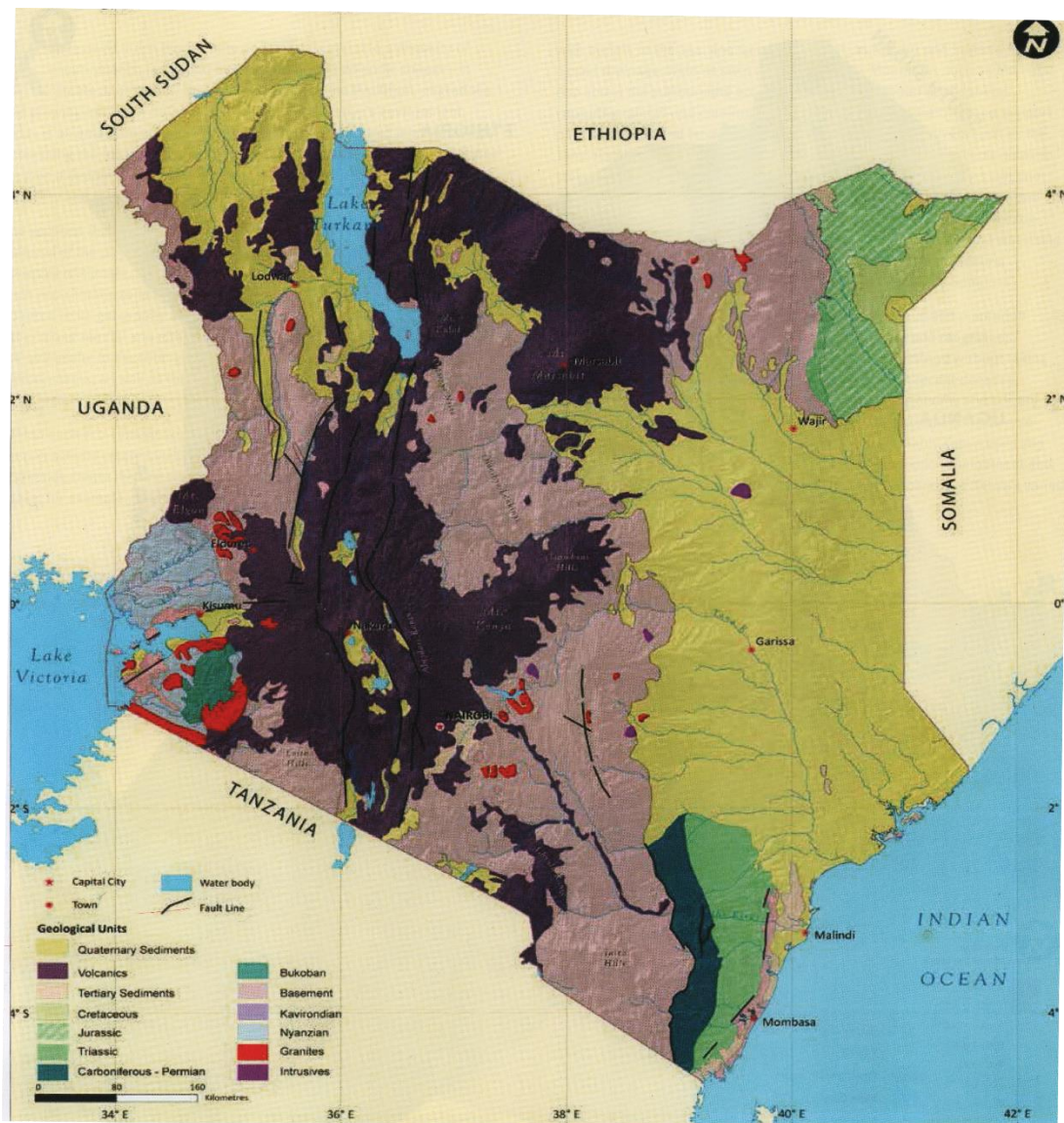


Figure 1.5. A map showing the main geological feature of Kenya (after MEWNR, 2015)

1.5. Evolutionary history for the assembly of the vegetation of Kenya

The modern vegetation of Kenya is composed of discrete assemblages (lowland forests, montane forests, Afroalpine heaths and savannas), which have differing evolutionary histories. The origin of these assemblages, presently isolated from one another by geographic and environmental barriers, is viewed to result from complex climatically and tectonically driven fragmentation processes, which operated on the original single continuous equatorial forest that covered Africa during the early and middle Miocene (Axelrod and Raven, 1978; Jacobs *et al.*, 2010). Some of the major episodes behind the processes which shaped the vegetation of Kenya include the forming of the East African Rift System during the Miocene (Sepulchre *et al.*, 2006; Senut *et al.*, 2009), the closing of the Tethys Sea and the Benguela Current at c. 8–10 million years ago (Ma) — (Siesser, 1980; Senut *et al.*, 2009). Others notable episodes include the building of the high strato-volcanos during the later mio-pliocene — which added environments suitable for Afroalpine heaths vegetation (Linder, 2017), and building of the Eastern Arc block of mountains that occurred at least 30 million years ago (Lovett, 1990; Lovett *et al.*, 2004).

1.6 Statement of the problem

The wealth of the vegetation of Kenya currently has several unexplained knowledge gaps, thus this complicating the study of the vegetation dynamic and conservation. For example, vegetation of Kenya surveyed on the basis of biome or physiognomy is broadly grouped into forests, savanna and Afrotemperate highlands (Lind and Morrison, 1974; Beentje, 1994; van Breugel *et al.*, 2015). However, this classification probably lumps together heterogeneous vegetation types under a single physiognomy. Moreover, the vegetation classification based on major African phytochoria (White 1983) suggests existence of four phytochoria in Kenya: Somali-Masai,

Afromontane Archipelago, Guinea-Congolian/Sudanian transition, and Zanzibar-Inhambane. It is however notable that in this classification scheme for the vegetation of Kenya the physiognomy recognized as forests is diverse and includes elements classified into at least three kinds of phytochoria (i.e., Afromontane Archipelago, Zanzibar-Inhambane, and Guinea-Congolian/Sudanian transition). Furthermore, hilltops within Kenya in the Somali-Masai phytochorion are forested at their peaks, yet it is unclear to which of the phytochoria they have the closest taxonomic affinity.

A closer look reveals further heterogeneity within a phytochorion. For example, two strikingly different vegetation systems (broad-leaved non-spiny *Combretum* woodland and fine-leaved spiny *Acacia* vegetation formations) co-occurring within the mesic savanna ecosystems of southeastern Kenya (within the Somali-Masai phytochorion; Figure 2.1) are scientifically interesting. Floristic composition and soil characteristics between these two vegetation systems, as well as trade-offs between structural and chemical defenses against herbivory for plants of the two assemblages are speculated. Such woodland systems, characterized among the most ecologically important landscapes in the vegetation of Kenya (see Mengich *et al.*, 2013; Kimeu *et al.*, 2020; Malombe *et al.*, 2020), are undergoing rapid transformation. Yet their biodiversity is not fully documented, with two plant species recently described from the woodlands (*Dorstenia arachiformis*, Malombe *et al.*, 2020; and *Aloe ngutwaensis*, Matheka *et al.*, 2020).

Knowledge of the evolutionary history and phylogenetic structure of the vegetation of Kenya is currently coarse. This paucity of knowledge is because the vegetation's evolutionary history is

presently estimated from fossil records (Linder, 2017), but fossils are argued to be scarce — particularly for Africa's floras (Bamford, 2011). Additionally, phylogenetic structure of the vegetation of Kenya is documented for only a few sections (Zhou *et al.*, 2018), and the majority of studies have focused predominantly on taxonomic groups rather than ecological units, with the exception of the afroalpine zone (e.g., Brochmann *et al.* 2021).

1.7 Goal and objectives of the thesis

There is generally a good effort to study the wealth of the vegetation of Kenya based on the singleton dimension approach (for example, Beentje, 1994; van Breugel *et al.*, 2015; Zhou *et al.*, 2018). However, there is scarcity of studies that advanced a multidimensional style for studying the vegetation of Kenya, despite that this method provides more valuable insight to the patterns and dynamics of the vegetation. In this Ph.D. thesis, four objectives researching on multiple dimensions of the vegetation of Kenya were defined:

- (1) Assessment of plant species composition support and evaluation of climate correlates for the African phytochoria divisions proposed by White (1983) for the vegetation of Kenya.
- (2) Determination of floristic and soil characteristics of the broad-leaved non-spiny *Combretum* woodland and fine-leaved spiny *Acacia* vegetation in the mesic savanna mosaic landscape of southeastern Kenya.
- (3) Investigate for a trade-off between structural and chemical plant defense strategies in woody plants of infertile soil broad-leaved non-spiny *Combretum* woodland and fertile soil fine-leaved spiny *Acacia* vegetation mosaics of the southeastern Kenya mesic savanna landscape

(4) Inference of age, phylogenetic diversity, and phylogenetic structure for the major phytochoria represented in the vegetation of Kenya.

1.8 Layout of the thesis

This thesis consists of a general introduction and the objectives of the thesis, four data chapters, and a synthesis. The first data chapter, based on the entire vegetation of Kenya, tested floristic and climate discontinuities across the White's (1983) phytochoria vegetation classification units. Two aspects about the classification were investigated, including: 1) whether the classification scheme is floristically supported, and 2) if the phytochoria divisions are climatically distinct. I used floristic checklists and 19 climatic variables extracted from the BIOCLIM data for 32 sites, which were well-distributed in the areas of the three phytochoria divisions that are predominant in Kenya (i.e., the Afromontane Archipelago, Somali-Masai and Zanzibar-Inhambane). To analyse the data, I investigated the floristic similarities of the sites using Cluster Analysis in PRIMER program version 6. In addition, I analysed the interactions between climate-vegetation types with canonical correspondence analysis (CCA) in CANOCO 4.5 version.

The second study data chapter tested the phenomenon that soil attributes play a crucial role in the potential organization of wood plant assemblages for the *Combretum* and *Acacia* species dominated vegetation formations within the mesic savanna landscape at the southeastern Kenya. I collected woody species and soil data from 57 plots, which included 25 from *Combretum* and 32 from *Acacia* vegetation formations that co-occur within the mesic savanna landscape in southeastern Kenya. Three sets of analyses were conducted, including: clustering analysis, analysis of similarity (ANOSIM) and analysis of similarity percentage (SIMPER) to examine

floristic differentiation across and between the vegetation formations. I further used an unpaired t-test for testing differences in means between the soils characteristics of the spiny and non-spiny vegetation communities' soils characteristics, and canonical correspondence analysis (CCA) to explore the interactions of woody species and soil parameters in the sample plots.

The third data chapter examined herbivory defense strategies for the *Combretum* and *Acacia* vegetation formations of the mesic savanna landscape in southeastern Kenya. Specifically, using the *Acacia* and *Combretum* vegetation systems, I investigated whether there is a trade-off between structural and chemical defenses against herbivory for woody plants in African savannas that has been speculated to depend on edaphic factors (Scholes and Walker 2004). The study used data from 81 plants associated with the dominant (8) species from eight sites — four sites from fertile *Acacia* vegetation (42 plants) and another four sites from infertile *Combretum* vegetation (39 plants). I used analyses techniques of linear discriminant analysis (LDA), boxplot technique, and Pearson correlations to investigate defenses and defense strategies tradeoffs between the here two studied vegetation forms.

In the last data chapter, I investigated approximate ages and phylogenetic structure for the vegetation of Kenya. I used floras of the three African phytochoria prominent in Kenya as models. This study relies on sequences from two plant DNA barcoding regions (rbcLa and matK genes), mostly extracted from woody plants. I constructed a dated phylogeny with maximum likelihood (ML) and penalized likelihood (PL) approaches, and used ages of various phylogeny lineages ages in the study's downstream analyses.

CHAPTER TWO: FLORISTIC COMPOSITION AND CLIMATE SUPPORT FOR THE MAJOR AFRICAN PHYTOCHORIA IN THE VEGETATION OF KENYA

2.1 Introduction

Vegetation can be classified on the basis of a variety of approaches. A common approach is the use of physiognomy, a criterion that is based on features such as structure and growth form of dominant species (e.g., Edwards, 1940; Whittaker, 1975; van Breguel *et al.*, 2015). Under this approach, vegetation is classified into the broadest vegetation units of similar physiognomy (commonly known as biomes) that reflect broad-scale climatic variation rather than species composition. Another approach to vegetation classification involves the use of phytochoria, which is based on taxonomic composition. Phytochoria are typically defined as large geographical areas (c. 10,000 km² or more) with largely homogenous plant species composition that contrast with other phytochoria (White, 1983; Linder *et al.*, 2005).

Kenyan vegetation surveyed on the basis of biome or physiognomy is broadly grouped into forests, savanna and desert (Lind and Morrison, 1974; Beentje, 1994; van Breugel *et al.*, 2015). This classification, however, likely lumps together heterogeneous vegetation types under a single physiognomy. On the other hand, a vegetation classification based on major African phytochoria (White 1983) suggests the presence of four phytochoria in Kenya, namely: Somali-Masai, Afromontane Archipelago, Zanzibar-Inhambane, and Guinea-Congolian/Sudanian transition — although the Guinea-Congolian/Sudanian transition is minimally represented. It is notable, however, that for the vegetation of Kenya the physiognomy recognized as forest is diverse and include elements classified into at least three phytochoria (i.e., Afromontane Archipelago, Zanzibar-Inhambane, and Guinea-Congolian/Sudanian transition). Moreover, hilltops within the

Somali-Masai phytochorion are forested at their peaks, but it is unclear to which of the phytochoria they have the closest taxonomic affinity.

Climate is the principal abiotic factor which dictates where terrestrial biomes establish (Whittaker 1975). The vegetation of Kenya encompasses a diverse climate that is largely influenced by the country's equatorial position, the Indian Ocean to the east and Lake Victoria to the west, and the Central highlands (MEWNR, 2015). Generally, rainfall in Kenya varies from extremely low erratic leading to arid conditions to the north and east, to the high moisture conditions of the region of Lake Victoria Nyanza in the west. This general east-west trend of increasing moisture availability is though interrupted by the highland area, which is situated in the central and western portion of the country, and which, due to the high altitudes, has a relatively high moisture supply in comparison to the surrounding lower altitude areas (Bobe, 2006; Linder, 2017). The presence of inselbergs within the semi-arid savanna landscapes of northern and eastern Kenya, further influence climate dynamics of Kenya, as these facilitate cooler temperatures and higher moisture microclimates (Gachathi, 1996; Malonza *et al.*, 2006), and likely have considerable bearing on the types of vegetation that exist in their localities. Normally, rain to the region east of the Great Rift Valley in Kenya is derived mainly from the north-east monsoon, and it occurs from April to June and again in November, whilst climate of the western portion of the country to the side of Great Rift Valley rainfall is supplemented by rain-bearing winds from Lake Victoria (Kenya Meteorological Department). As such, owing to the considerable vegetation variations potential to the Kenya's landscapes brought about, in part, by country's localized differences in topography, and its varied precipitation amounts and

patterns, evaluating floristic distinctives for phytochoria divisions in the vegetation of Kenya is imperative.

The White (1983) classification of the phytochorological regions of Africa, which is considered the most authoritative document on African vegetation, was explained according to the comparison of lists of species from across Africa, but without a numerical analysis. Hence, delineation of respective biogeographical units in the White's classification system are loosely defined. In the current study, I used a numerical analysis (see Kreft and Jetz 2010; and also Fayolle *et al.* 2019) on a data of localized collection of plant lists from many sites across Kenya to objectively test for congruence in the White's system of regionalisation of the Afrotropics phytochoria areas. I tested two hypotheses; (1) the vegetation classification based on the phytochoria proposed by White (1983) is floristically supported, and (2) White (1983) phytochoria areas each covers a well-defined climatic niche.

Comprehensive information on species distribution in the vegetation of Kenya is easily obtainable from publicly available data sources. For example, numerous and comprehensive published plant lists covering different regions of Kenya are recorded for the vegetation of Kenya (e.g., Beentje, 1988; Bytebier, 2001; Bytebier and Bussmann, 2000; Fischer *et al.*, 2010; Gachathi *et al.*, 1994; Girma *et al.*, 2015; Herlocker, 1979 and 1991; Kipkoech *et al.*, 2020; Luke, 2005; Lusigi *et al.*, 1984; Malombe *et al.*, 2015; Malonza *et al.*, 2006; Mbaluka and Brown, 2016; Mbuni *et al.*, 2019; Medley and Maingi, 2014; Muasya and Mwachala, 2006; Ngumbau *et al.*, 2020; Ngugi, 2007; Nyambane *et al.*, 2016; Tweedie, 1976; Waliaula, 1991; and Zhou, 2017). This study using such publicly available plant checklists for Kenya investigates

floristic support for three of the White (1983) African phytochoria that are predominant in Kenya, in order to test the hypothesis that the vegetation classification based on phytochoria proposed by White (1983) is floristically supported, and perhaps the phytochoria units cover separate climatical niches. The study analysed plant checklists of areas representatives of major phytochoria of Africa dominant in the vegetation of Kenya and climate data towards: 1) evaluating whether the sites clustering patterns show a pattern congruent to prior delineated phytochoria areas, and 2) determine whether observed groupings display climatic distinctiveness.

2.2 Materials and Methods

2.2.1 Sampling description

The study utilized publicly available plant lists data for 32 areas distributed across three major African phytochoria as defined by White (1983) in the vegetation of Kenya (see Figure 2.1 and Table 2.1). The Somali-Masai phytochorion is the larger unit, from which Beentje (1994) for the vegetation of Kenya subdivided it into the savanna types (i.e., woodlands, grasslands/desert)—(Figure 2.1), although the Somali-Masai category is retained in the analysis. The Zanzibar-Inhambane division in the study is taken in its entirety, while the Afromontane Archipelago sites exclude alpine samples, and the Somali-Masai sites omit desert samples. The plant lists areas, which were thoroughly searched from extensive literature review, capture the breadth of rainfall, temperature, and elevation gradients. Moreover, the plant lists areas vary in size, smallest in reserves located near towns/cities (e.g. Kakamega, Karura, Ngong) but larger when covering mountains or reserves located away towns/cities.

The plant lists used by this study are from published sources that cite voucher specimens for each plant name used. The study followed the African Plant Database (<http://www.ville-ge.ch/musinfo/bd/cjb/africa/recherche.php>) for standardizing the genera and species nomenclature in the plants lists, and the Flora of Tropical East Africa (FTEA; 1952–) for the (few) taxa not in the African Plant database. The study considered only native and naturalized vascular plants recognized in the FTEA.

It is noticeably that northern part of Kenya in the current study is underrepresented (Figure 2.1). Historically, northern Kenya has been marginalized (i.e., had poor road network and including other facilities), plagued by persistent armed conflicts and insecurity, although recently the region is started opening up in terms of development. Therefore, the region has not been attractive to researchers in the past, hence this explains why current study only got a handful published plant lists for the region. Nonetheless, the whole of northern part of Kenya falls within the Somali-Masai phytochorion, and this phytochorion spreads up to southern part of Kenya. Given that the scope of this study was to evaluate the major African phytochoria in vegetation of Kenya, and this study could only get a good sample of plant checklist for Somali-Masai phytochorion areas from the southern part of Kenya, then, under such circumstance, for now Somali-Masai phytochorion is evaluated using a bulk of species distributions of southern part of Kenya sites.

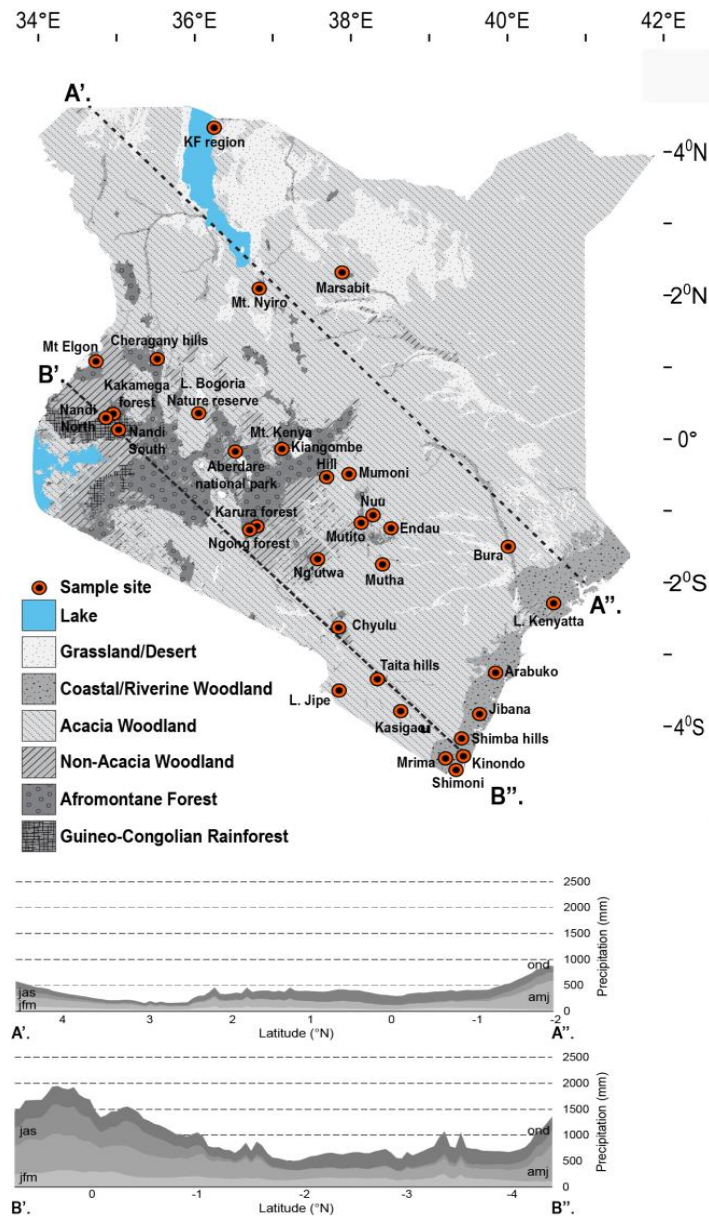


Figure 2.1. Map of Kenya showing the location of the 32 areas (sample sites) used in the floristic analyses taken along transects A'A'' and B'B''. Shown also in the figure is the cumulative seasonal precipitations scored along transects A'A'' and B'B'' (data source for precipitation is Hijmans *et al.*, 2005), where precipitation for January/February/March (jfm) is given a different color from April/May/June (amj) precipitation, July/August/September (jas) and October/November/December (ond)

Table 2.1. Details of study areas used in floristic analyses

Site name	Lat (°N)	Long (°E)	Phytochorion	Alt (m)	Species #	References
Aberdare NP	-0.19	36.55	Afromontane Archipelago	2880	1161	Waliaula (1991) & Kipkoech <i>et al.</i> (2020)
Mt. Kenya	-0.17	37.16	Afromontane Archipelago	2414	714	Zhou (2017)
Mt. Elgon	1.07	34.74	Afromontane Archipelago	2643	875	Tweedie (1976) & Waliaula (1991)
Kakamega FR	0.28	34.88	Afromontane Archipelago	1598	970	Fischer <i>et al.</i> (2010)
Nandi North	0.31	34.98	Afromontane Archipelago	1998	181	Girma <i>et al.</i> (2014)
Nandi South	0.116	35.03	Afromontane Archipelago	1905	253	Girma <i>et al.</i> (2014)
Cheragany HL	1.08	35.544	Afromontane Archipelago	2417	1296	Mbuni <i>et al.</i> (2019)
Mt. Nyiro	2.06	36.84	Somali-Masai	1826	411	Bytebier & Bussmann (2000)
Taita HLs	-3.36	38.3	Somali-Masai	1588	327	Beentje (1988) & Bytebier (2001)
Chyulu	-2.66	37.87	Somali-Masai	1627	524	Waliaula (1991)
Kasigau	-3.82	38.66	Somali-Masai	820	323	Medley & Maingi (2014)
Karura FR	-1.23	36.82	Afromontane Archipelago	1709	322	Waliaula (1991) & Nyambane <i>et al.</i> (2016)
Ngong FR	-1.31	36.742	Afromontane Archipelago	1887	531	Waliaula (1991) & Nyambane <i>et al.</i> (2016)
L. Jipe	-3.52	37.86	Somali-Masai	834	164	Waliaula (1991)
KF region	4.31	36.23	Somali-Masai	360-560	361	Mbaluka & Brown (2016)
Marsabit	2.29	37.88	Somali-Masai	1091	214	Herlocker (1979 & 1991) & Lusigi <i>et al.</i> (1984)
Kiang'ombe HL	-0.56	37.71	Somali-Masai	1190	569	Ngungi (2007)
Ng'utwa	-1.7	37.59	Somali-Masai	1294	616	Malombe <i>et al.</i> (2015)

Bura	-1.52	40.03	Somali-Masai	63	211	Gachathi (1994)
Mutha	-1.78	38.41	Somali-Masai	816	174	Malonza <i>et al.</i> (2006)
Endau	-1.28	38.53	Somali-Masai	657	464	Malonza <i>et al.</i> (2006)
Nuu	-1.08	38.32	Somali-Masai	911	296	Malonza <i>et al.</i> (2006)
Mutito	-1.21	38.16	Somali-Masai	1023	217	Malonza <i>et al.</i> (2006)
Mumoni	-0.52	37.98	Somali-Masai	1248	342	Malonza <i>et al.</i> (2006)
Bogoria NR	0.30	36.07	Somali-Masai	1074	227	Muasya & Mwachala (2006)
L. Kenyatta	-2.32	40.62	Zanzibar-Inhambane	17	259	Waliaula (1991)
Mrima	-4.48	39.26	Zanzibar-Inhambane	74	330	Waliaula (1991) & Ngumbau <i>et al.</i> 2020
Kinondo	-4.41	39.47	Zanzibar-Inhambane	38	246	Waliaula (1991) & Ngumbau <i>et al.</i> 2020
Jibana	-3.83	39.67	Zanzibar-Inhambane	87	105	Waliaula (1991) & Ngumbau <i>et al.</i> 2020
Shimba HLs	-4.19	39.45	Zanzibar-Inhambane	344	575	Luke (2005) & Ngumbau <i>et al.</i> 2020
Shimoni	-4.64	39.37	Zanzibar-Inhambane	13	434	Waliaula (1991) & Ngumbau <i>et al.</i> 2020
Arabuko	-3.28	39.87	Zanzibar-Inhambane	66	561	Waliaula (1991) & Ngumbau <i>et al.</i> 2020

Acronym used in the table: FR (Forest), HL (Hill), KF (Koobi Fora), L. (Lake), NP (National Park) and NR (Nature reserve)

2.2.2 Data analyses

To evaluate whether the vegetation classification based on the phytochoria proposed by White (1983) is floristically supported, cluster analyses were used, and these analyses were executed in PRIMER program version 6. Cluster analyses form part of the larger family of unsupervised learning methods in exploratory data analysis and their central aim is to classify similar objects into respective groups. The cluster analyses used frequencies of taxa in matrices (presence/absence) data, and two separate analyses were conducted: one for the species and

another for the genera (Appendix 1). Similarities among taxa in each of the data sets were structured by the Bray–Curtis coefficient (Bray and Curtis, 1957), and hierarchical clustering executed with the “group average linkage” algorithm, which selects the average dissimilarity over all pairs of samples between groups, and has previously shown, in comparison with other frequently used linkage functions, with the best performance for broad scale distribution data and biogeographical purposes (see Kreft and Jetz 2010). Moreover, hierarchical clustering with group-average linking, based on sample similarities Bray-Curtis, has proved to be a useful technique in a number of ecological studies over the last three decades (Clarke and Warwick, 2001). Based on these two premises, I conservatively chose hierarchical clustering with group-average linking and based on sample similarities Bray-Curtis as the best clustering method for this analysis.

Climate-plants interactions were analysed with canonical correspondence analysis (CCA). For this analysis, 19 climatic BIOCLIM variables were first obtained (Hijmans *et al.*, 2005; <http://www.worldclim.org/download>) for each of the 32 sites (Appendix 2). A CCA was then conducted to help explain the patterns in species composition associated with the study sites. The response data used in the CCA was the same as the species composition per site data used in the cluster analyses. The CCA analysis was performed in CANOCO 4.5 version (ter Braak and Šmilauer, 2002; Šmilauer and Lepš, 2003). Multicollinearity among climate vectors in the analysis was checked using variance inflation factors (VIFs), and vectors exceeding 20 VIF were removed from the model before the execution of forward selection analyses (ter Braak and Šmilauer, 2002). The CCA was performed with randomised Monte Carlo tests (at 999 permutations at which climate-plants interactions in the model properly stabilized) using

conditional automatic forwarding options (Šmilauer and Lepš, 2003), and the significance cut-off designated at $p < 0.05$.

2.3 Results

2.3.1 Taxa and phytochoria characterization

A total of 4938 species (from 1426 genera and 411 families) were obtained from the checklists used in the study (Appendix 1). Using data on generic rank (at about 30% similarity), the study data segregated into two clusters that include i) all the Afromontane Archipelago and a few of the Somali-Masai sites, and ii) all Somali-Masai sites, and all the Zanzibar-Inhambane sites (Figure 2.2a). Clustering based on species level (Figure 2.2b), at 9% similarity forms two distinct groups: 1) a cluster encompassing all the Afromontane Archipelago and the Somali-Masai sites of relatively higher elevation (see Table 2.1), and ii) a cluster of Zanzibar-Inhambane sites with the Somali-Masai sites of comparatively lower elevation (Table 2.1). Three clusters were evident at about 13% similarity (Figure 2.2b): i) Taita and Kasigau (of Somali-Masai but with relatively higher elevation); ii) a mix of Somali-Masai (all of relatively higher elevation) and Afromontane Archipelago sites; and iii) Zanzibar-Inhambane, and Somali-Masai sites of comparatively lower elevation cluster.

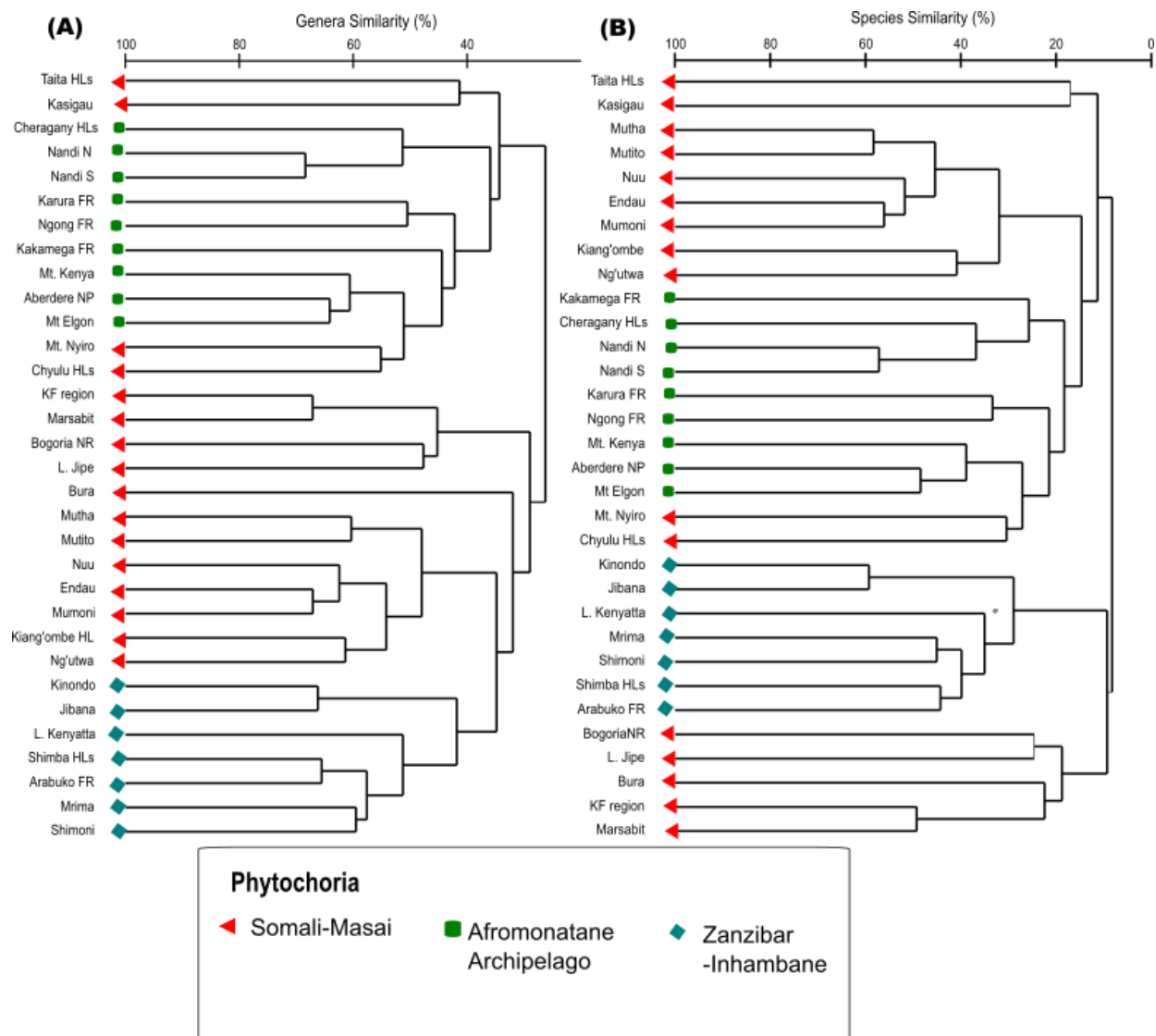


Figure 2.2. Dendrograms of the 32 areas of vegetation types of Kenya clustering for (A) genera and (B) species sample taxa

2.3.2 Climate correlates and environmental-assemblages correlation characterization

Ten of the 19 BIOCLIM climatic variables were determined to be colinear, hence, the nine with no collinearity were retained for testing for the correlation between vegetation assemblages and environmental variables (Table 2.2). Eight of the nine climatic vectors without collinearity (one temperature and six precipitation) significantly predicted floristic variation in vegetation assemblages in the model. Precipitation vectors included: precipitation of driest quarter (PDQ),

precipitation of wettest quarter (PWeQ), precipitation seasonality (PS), precipitation of the driest month (PDM), precipitation of coldest quarter (PCQ) and precipitation of warmest quarter (PWaQ), while the single temperature vector in the model was the mean temperature of the coldest quarter (MTCQ)—Table 2.2.

Table 2.2 Forward selection of climate vectors in the vegetation of Kenya assemblages-environmental correlation CCA model

Variable	P value
Mean temperature of the coldest quarter (MTCQ)	0.001
Precipitation of driest quarter (PDQ)	0.001
Precipitation of wettest quarter (PWeQ)	0.001
Precipitation seasonality (PS)	0.001
Precipitation of the driest month (PDM)	0.001
Mean annual precipitation (MAP)	0.002
Precipitation of coldest quarter (PCQ)	0.007
Precipitation of warmest quarter (PWaQ)	0.037
Precipitation of the wettest month (PWM)	0.107
Note: Only variables that are relatively independent of multicollinearity are included in the list. Threshold for the explanatory variables to the relationship (in bold) is set at $p < 0.05$	

Climatic correlates divided the checklists areas into two broad groups along CCA 1, where the Afromontane Archipelago with a group of the Somali-Masai sites form one grouping— cluster i; figure 2.3, which is separate from a second cluster including the Zanzibar-Inhambane sites with another group of the Somali-Masai sites — cluster ii; figure 2.3. Along ordination axis 1, the most influential climatic correlates are MTCQ and PWaQ. A majority of the Afromontane Archipelago sites are along CCA 2 (negative score values), including Mt. Kenya, Cherangany Hills, Aberdare NP, Mt. Elgon, Nandi South, Nandi North and Kakamega forest (Figure 2.3).

Karura and Ngong forests sites (both of the Afromontane Archipelago phytchorion), however, somehow loaded along CCA 2 (positive score values) with Somali-Masai sites. Ordination axis 2 correlates negatively to PDM, PDQ, PWeQ, MAP and PCQ, and is positively correlated with PS (see Figure 2.3). All the Afromontane Archipelago sites and a group of the Somali-Masai sites correlated with PWeQ along the CCA1 negative score values (Figure 2.3). The Zanzibar-Inhambane sites along CCA1 (positive score values) correlates with MTCQ, and inversely with PS along CCA 2 (Figure 3). Somali-Masai sites correlate with PS (CCA 2 positive values), and with MTCQ (CCA 1 positive values) — (Figure 2.3).

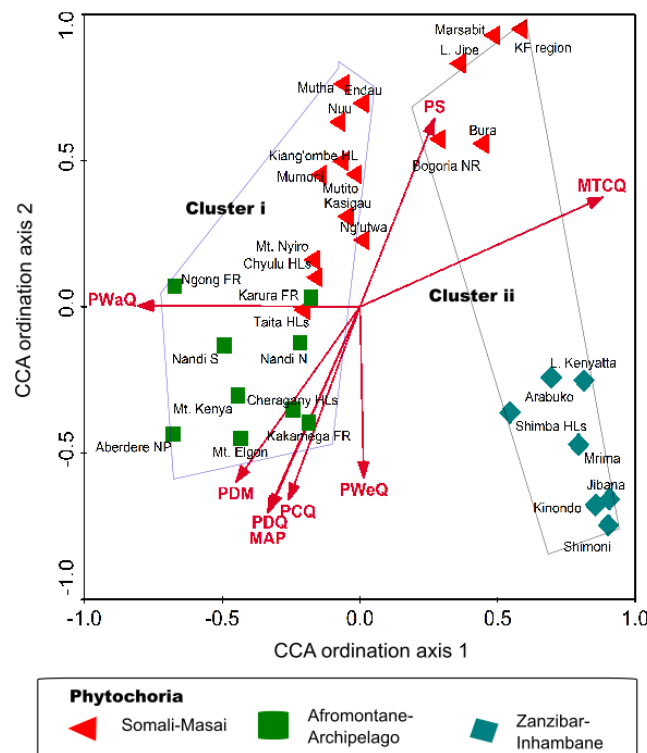


Figure 2.3. Canonical correspondence analysis (CCA) plot. Ordination is based upon species composition but is constrained by BIOCLIM climatic variables. Total variance (inertia) in the species data: 2.505; eigen values: axis 1 = 0.608; axis 2 = 0.437, Variance in species data % of variance explained 10.1 (axis 1), 7.2 (axis 2), Cumulative % explained 10.7 (axis 1) and 17.3 (axis 2). Only significant and independent attribute factors are presented. Clusters: i) a group encompassing all the Afromontane Archipelago and the Somali-Masai sites of relatively higher elevation, and ii) a cluster of Zanzibar-Inhambane sites with the Somali-Masai sites of comparatively lower elevation.

2.4 Discussion

This study, using floristic checklist data and objective numerical methods, first tested if the discontinuities in White's (1983) three phytochoria predominant in Kenya are segregated by floristics. The checklists used in this study comprise 78% of the 6293 total native vascular plants of Kenya, and 93% of the 1538 country's total genera (Zhou *et al.*, 2017). The data, hence, represents a near complete vascular floristic profile of the vegetation of Kenya. Moreover, the checklists are representatives of Kenya's major climatic-physiognomic vegetation affinities, with at least five samples for each vegetation type (although deserts and alpine ecoregional samples are not included). Furthermore, the data have so far the broadest geographical coverage of the vegetation of Kenya considered in one study. Indeed, to the author's knowledge, this study is the first to apply floristic checklists in assessing the biogeography of the vegetation of Kenya at a regional scale, as the current classification of the vegetation is based on physiognomy (for example Lind and Morrison, 1974; Beentje, 1994; Kindt *et al.*, 2015).

Clustering sites, by either generic or species taxonomic levels, did not demonstrate general support for the phytochoria divisions previously proposed by White (1983) in Kenya, but the data instead demonstrated fuzzy (overlapping) phytochoria memberships. For instance, at 13% similarity, the Somali-Masai phytochorion sites do not form a distinct cluster based on species-level data, but rather clustered with the Afromontane Archipelago and also with the Zanzibar-Inhambane phytochorion sites (Figure 2.2b). Moreover, while all the Zanzibar-Inhambane phytochorion sites were grouped into one distinctive cluster (for both the genera and species taxonomic levels at similarity levels 30 and 18 %, respectively), the cluster also encompassed sites belonging to the Somali-Masasi phytochorion (Figure 2.2a & b).

The position of a group of Somali-Masai sites (Mutha, Mutito, Nu, Endau, Mumoni, Kiang'ombe and Ng'utwa) shift from the Somali-Masai regional centre of endemism to the Afromontane Archipelago affinity in the analysis (Figure 2.2b), perhaps exemplifying their ecological uncertainty. The assemblages described as 'Ecosystems Uncertain' occur in heterogeneous habitats that have fluctuating levels of open to closed canopy (Bond, 2019). In Kenya, such sites could host forest assemblages in habitats with sufficient moisture (i.e., hilltops and riparian). Indeed, the Somali-Masai sites matching the Afromontane Archipelago in the analysis this study are all of relatively higher elevation (the hilltop plant lists).

The flip in position for the higher elevation Somali-Masai sites (i.e., Mutha, Mutito, Nu, Endau, Mumoni, Kiang'ombe and Ng'utwa) from Afromontane Archipelago to coastal assemblage when constrained at the generic level (Figure 2.2a) could possibly be a signature of shared genera (e.g., Annonaceae) between the coastal forest and the hilltops, and perhaps reflects the mosaic nature of both vegetation types where the vegetation spans from open to closed habitats. The pattern could also be due to the evolutionary history of the forest assemblage, which may predate the uplifting of the eastern Africa Rift Valley and the origin of the Afromontane flora, reflecting remnants of the pantropical forests of Africa (Linder, 2014, Couvreur *et al.*, 2021).

It is puzzling that the hills of Kasigau and Taita (both located within the Somali-Masai phytocorion) have more similarity to the Afromontane Archipelago sites based on the occurrence of genera (Figure 2.2A); however, they form a distinct cluster based on occurrence of species (Figure 2.2B). While the lower slopes of the two hills are within the typical savanna

woodland of the Somali-Masai phytochorion division (e.g., White 1983; Medley and Maingi, 2014), the summits of the hills are characterized by mist forests but whose floristic composition is more similar to that of the Eastern Arc Mountains (Aerts *et al.*, 2011) than the Afromontane forests at a similar elevation. In fact, there is strong evidence of shared plants (including, for example, *Saintpaulia* (Dimitrov, 2012), *Coffea fadenii* Bridson—Beentje, 1994) and fauna (see Fjeldsa and Burgess, 1998) among the two hills with the other Eastern Arc Mountains.

Climatic variables were highlighted to influence vegetation spatial patterning based on the results of the current study, but the results did not discriminate the study checklists into their respective phytochoria memberships. Instead, the climatic data, similar to those of the floristics, showed overlapping phytochorion memberships—the results demonstrating that the White’s 1983 phytochoria divisions in Kenya encompass heterogeneous climates rather than homogeneous units. Precipitation and temperature variables were highlighted in the results as the principal macroclimate parameters that influence spatial patterning of the vegetation (Table 2.2 and Figure 2.3). However, the two (precipitation and temperature) in the landscapes of Kenya vary widely, largely influenced by elevation (see Figures 1.2 and 1.3 of this thesis). For example, the study data showed that increased precipitation (PDM, PDQ, PCQ, MAP, PWeQ) is associated with the Afromontane Archipelago sites. However, some of the Afromontane Archipelago sites overlapped with the Somali-Masai sites (particularly Ngong FR, Karura FR; Figure 2.3—cluster i). Afromontane Archipelago sites (Figure 2.3) occurred in areas that have more precipitation during the driest months, as well as the coldest and driest quarters – which are areas that due to their high elevation (or proximity to Lake Victoria) have more rainfall. The pattern based on the results on the analyses coincide with Beentje’s (1994) physiognomic subtypes, where one cluster

is composed of rainforests with abundant rainfall that is spread throughout the year or rainfall 1500 mm per year and one or two dry periods, whereas the other cluster has dry forests with distinct dry seasons.

The Somali-Masai phytochorion is typically a characteristic of savanna. Savanna in Kenya can be broadly classified as of either arid or mesic environments—where in the tropical context, the former category is characterized as lacking in moisture, especially having insufficient rainfall to support many trees or woody plants, while the latter category is described as having medium moisture supply, neither too dry nor too wet, and with sufficient rainfall to support trees and woody plants (see Ratnam *et al.*, 2011; Sankaran and Ratnan 2013). The loading of a group of the Somali-Masai sites inversely to all the Afromontane sites along CCA2, where CCA2 correlated with precipitation gradient (Figure 2.3), this configuration is perhaps capturing the sites within Beentje's (1994) Afromontane dry forests physiognomic subtype and those within the Somali-Masai mesic savanna subtype.

The Zanzibar-Inhambane phytochorion occurs along the coast of the Indian Ocean, at an elevation below 500 m, in areas that experience relatively high rainfall. However, these coastal sites, together with the arid savanna sites (Bogoria, Bura, L. Jipe, Marsabit and KF region), are inversely correlated with precipitation during the warmest month (PWaQ). Mean temperature of the coldest quarter (MTCQ) based on the results of the analyses is the principal predictor for coastal forests and the arid savanna sites (Bogoria, Bura, L. Jipe, Marsabit and KF region). Both coastal forests and the arid savanna actually have higher temperatures throughout the year, and especially during the cold quarters, typically above 23°C (Hijmans *et al.*, 2005). Furthermore,

temperature varies widely in Kenya, with the exception of the coastal area, influenced by elevation and rainfall seasonality (Hijmans *et al.*, 2005). An extreme is observed in the afroalpine zone where diurnal fluctuations were aptly described by Hedberg (1970) as “summer every day and winter every night”, but whose sites are underrepresented in the current study.

In conclusion, analyses of floristic and climate data in the current study did not show a general support for the vegetation divisions proposed by White (1983). Instead, the results demonstrated that vegetation structuring at the landscapes of Kenya (and perhaps in the whole of East Africa) is complex, hosting assemblages typical of major African biomes that are partitioned by both precipitation and temperature gradients. Nonetheless, because East Africa has a highly heterogeneous geomorphology, a more refined study incorporating soil data would perhaps help disentangle the role of edaphic parameters in structuring the vegetation of Kenya at a broad spatial scale. More importantly, also, given the high predictive power of phylogenies in comparison to the taxonomic approach followed here, this study advocates for future studies aiming to refine the White’s biogeographic categorization assemblages in the vegetation of Kenya to include phylogenetic relationship in such studies.

CHAPTER THREE: SPECIES-FILTERING EFFECTS OF SOIL IN A TROPICAL MESIC SAVANNA VEGETATION IN KENYA

3.1 Introduction

Savannas, of varying physiognomy, are extensive on earth. They cover about 20% of the earth's land surface (Scholes & Walker, 2004; Beerling and Osborne, 2006), at least 40% of Africa (Scholes & Walker, 2004), and comprises 80% of the Kenya's vegetation. These ecosystems embrace the larger part of the world's undeveloped and underdeveloped lands and are of great importance for the livelihood of rural communities, mainly for subsistence farming and animal husbandry. When in their natural state, savanna ecosystems often harbour complex faunal assemblages (Lamprey, 1963) but many have been modified to support agriculture or livestock grazing. Considering importance of the savanna ecosystems, better understanding of the driving forces of savanna vegetation dynamics has important implications for the ecosystems sustainable management.

Separately, throughout the tropical region, at landscape, plant species distribution and vegetation boundaries are mediated by differences in species responses to a myriad of factors (Hoffmann *et al.* 2004, 2005, 2012; Sankaran *et al.* 2005), including fire and herbivory regimes (top-down forces, Bond 2008; Sankaran *et al.* 2008) and soil resource availability (Richards, 1993; Jacobs, 2004; Barros *et al.* 2017). However, there is no consensus about the relative importance of these factors in mediating vegetation boundaries (Hoffmann *et al.* 2012). Fire is commonly hypothesized to be the main force allowing the persistence of savanna vegetation by reducing biomass and preventing canopy closure by forest species (Dantas *et al.* 2013; Hoffmann *et al.* 2012, Beckett *et al.* 2022). Further, fire-driven nutrient losses may be a key feedback stabilizing

savanna vegetation (Pellegrini 2016). On the other hand, at the landscape scale, vegetation units (i.e., forest and savanna) can coexist with well-defined boundaries without the presence of recent fires, suggesting a prominent role of nutrient stocks or soil conditions in structuring savanna vegetation (Hoffmann *et al.* 2012).

Two strikingly different vegetation systems (broad-leaved non-spiny *Combretum* – *Terminalia* and narrow-leaved spiny *Acacia* – *Commiphora* woodlands) are found in the mesic savanna ecosystems of southeastern Kenya (Trapnell and Graffiths, 1960; Pratt *et al.*, 1966; and Kindt *et al.*, 2015), within the larger Somali-Masai phytogeographical region of Africa (White, 1983). Further, within the range of the southeastern Kenya mesic savanna ecosystems, the two vegetation systems form a mosaic, and can be contained in patches of different sizes (Kindt *et al.*, 2015).

In the present study, I used a landscape approach to further on the debate on mediating factors to vegetation boundaries in the tropical regions, concentrating on species filtering effects of soil in maintaining broad-leaved non-spiny and fine-leaved spiny vegetation mosaics in a tropical mesic savanna ecosystem in south-eastern Kenya. I hypothesize that at a landscape scale soil attributes play a crucial role in the potential organization of tropical wood plant assemblages. To explore this hypothesis, empirical field data of woody species abundance and soil characteristics were analysed in order to test for: (1) landscape plant species community boundaries; (2) landscape edaphic attributes boundaries; and (3) edaphic attributes filtering effects on wood plant assemblages at landscape scale in the tropical regions.

3.2 Materials and Methods

3.2.1 Study area description

The study was conducted in southeastern Kenya (0.67°S to 2.62°S, 37.70E° to 38.09°E), located east of the East African Rift Valley, and situated south of Mt Kenya and north of Mt Kilimanjaro (Figure 3.1a, b). The area has a fairly flat topography which is occasionally interrupted by hill sections, and it is on the middle sections of the broad slope towards the Indian Ocean to the east of the rift highlands section. The climate of the area is a mesic savanna with mean annual temperature and mean annual rainfall indices between 19.0 °C to 25.0 °C and between 600 mm to 1300 mm, respectively (Figure 3.1c, d; MoA., 1987; Hijmans *et al.*, 2005). Rainfall occurs in a bimodal pattern, with the “long rains” coming in March to May and the “short rains” in October to December. Geology of the study area is defined by the basement complex system, which consists mainly of highly impermeable metamorphic rocks (Nyamai *et al.*, 2003; Mora-Vallejo *et al.*, 2008). Soils are mostly deep and friable, ranging from sandy to sandy loam in texture (Mora-Vallejo *et al.*, 2008).

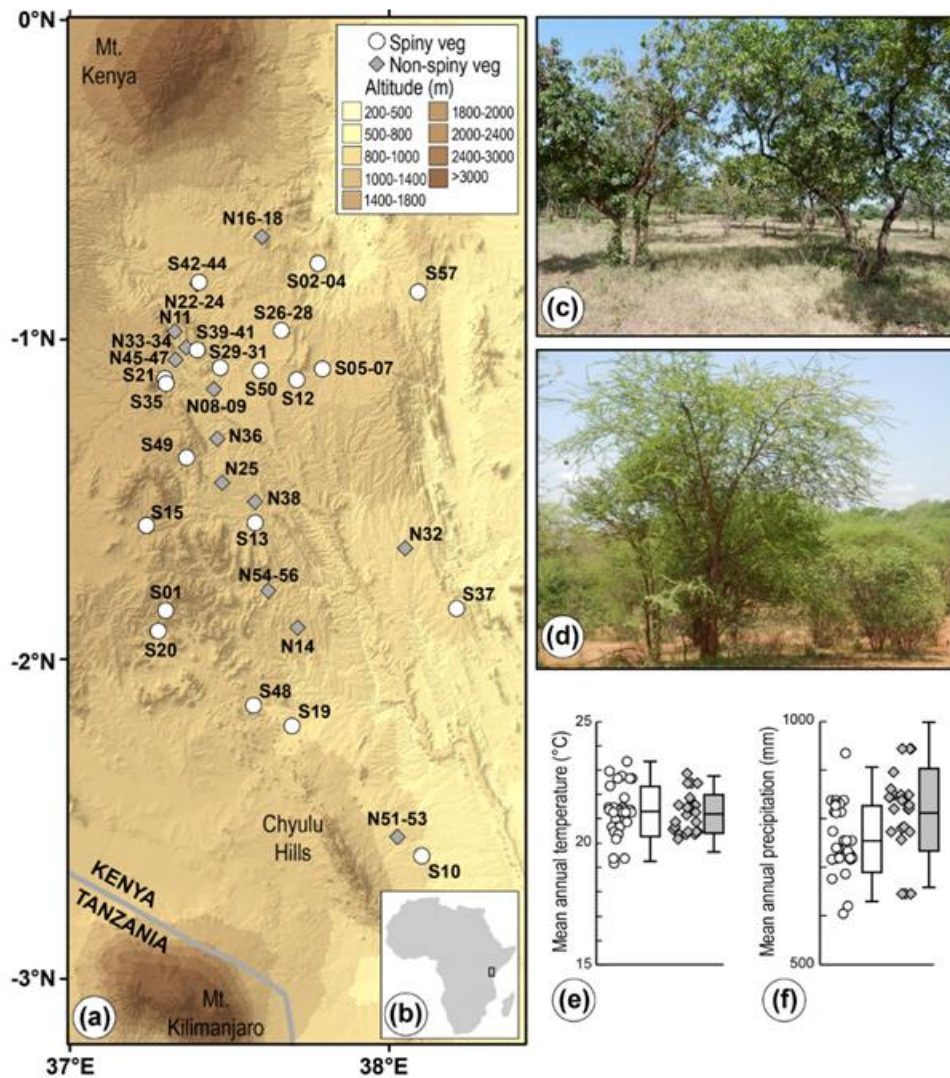


Figure 3.1.a & b) Locations of non-spiny (N) and spiny (S) vegetation systems sample plots across the mesic savannas of southeastern Kenya, in eastern equatorial Africa. c & d) Images of non-spiny and spiny vegetation systems, in the respective order. e & f) Mean annual temperature and mean annual precipitation, respectively, of the study sites

Vegetation in the study area is a mosaic of broad-leaved non-spiny *Combretum* – *Terminalia* and narrow-leaved spiny *Acacia* – *Commiphora* vegetation types (Figure 3.1e & f; Trapnell and Graffiths, 1960; Kindt *et al.*, 2015), forming a narrow belt on relatively higher and moister portions of the *Acacia*-tall grass and open grassland savanna of East Africa (Edwards, 1940). Much of this natural vegetation is highly fragmented, largely, by cultivated farmlands inhabited

by a population of smallholding sedentary agricultural communities, who exercise subsistence-oriented mixed farming systems that include both crop and livestock production (Jaetzold *et al.*, 2006). Currently, natural vegetation within the study area is found as ‘islands’ of vegetation patches or relics on private smallholding farmlands.

3.2.2 Sampling design

The fieldwork was done in May 2017 and in January through to February 2018. A total of 57 plots (10 m × 10 m; Figure 3.1a), that included 25 from non-spiny *Combretum – Terminalia* woodlands and 32 from spiny *Acacia – Commiphora* woodland vegetation were sampled for woody plant species and soil composition data. Study sites were pre-selected from natural vegetation units occurring among farmlands using both Google Earth and advance knowledge of the general vegetation to the study area (knowledge that was gained during a reconnaissance trip to the study area prior to the main data collection expeditions). Specifically, sites were systematically designated in each of the two vegetation types to sample them in proportion to their relative extent in the study area. The Combretaceae vegetation type, for example, in East Africa is restricted in mesic savanna and the plots cover its full extent within the study area. While the *Acacia – Commiphora* woodlands cover a more extensive area in East Africa, the study restricted itself to the mesic zone, where further the *Acacia – Commiphora - Combretum – Terminalia* form a mosaic.

3.2.3 Vegetation data acquisition

Occurrence of woody plant species plus their respective abundances were recorded in each sample plot. Plant species were identified in the field using appropriate botanical identification

manuals (i.e., FTEA, 1951–; Beentje, 1994; Maundu and Tengnas, 2005) and further authenticated at the East African Herbarium of the National Museums of Kenya in Nairobi. A representative voucher specimen for every recorded species was collected following standard plant collection protocols (Bridson and Forman, 1992), and the voucher specimens were archived at the East African Herbarium. Species nomenclature follows the International Plant Names Index (<https://www.ipni.org/>). This study continued to use *Acacia* as the generic name for the African trees and shrubs in the genus *Acacia* despite the recent proposal to split African acacias to *Vachellia* or *Senegalia* (Kyalangaliwa *et al.*, 2013). This is to enable linkage of the name *Acacia* with its continued use within the African ecological realms (see e.g., van Breugel *et al.*, 2015; Kindt *et al.*, 2015; Pringle *et al.*, 2016; Kartzinel *et al.*, 2019; Mutuku and Kenfack, 2019).

3.2.4 Soil sample collection and analyses

Fifty-seven composite soil samples (one 500 g sample per plot) — 25 and 32 from the non-spiny *Combretum – Terminalia* woodland plots and the spiny *Acacia – Commiphora* woodland vegetation, respectively — were collected. Each 500 g sample represents a homogenized collection obtained from three replicate points spaced within each 10 m × 10 m sample plot. The replicate points within each plot were positioned in the following manner: one at the left upper corner, one at the centre and one at the right lower corner, and for consistency, the positions were referenced from the north direction. Soil sampling points were first cleared of surface leaf litter, and then samples drawn by a soil auger from up to a standardized depth of 20 cm (a depth commonly used by ecologists to sample the upper soil layer, which reflects where most of the plant-soil interactions occur; see Wigley *et al.* 2013). Samples were air dried shortly after collection before they were taken to the University of Cape Town for analyses of chemical and

physical characteristics. In total, the study analysed 49 soil characteristics including: 45 of all the 96 known natural elements on earth; pH; and sand, silt and clay contents. Forty one of the analysed soil elements which include Ag, Al, Ba, Bi, Br, C, Ca, Ce, Co, Cr, Cs, Cu, Fe, Ga, Ge, Hf, I, K, La, Mg, Mn, Mo, N, Nb, Ni, P, Pb, Rb, S, Si, Sn, Sr, Ta, Th, Ti, U, V, W, Y, Zn and Zr are present in our soil samples, and together with pH; and sand, silt and clay contents, are thereafter used in the analyses of this study. Analyses of soil pH, as well as of sand, silt and clay contents were done at the Elsberg Laboratory of the Western Cape Government's Department of Agriculture. For the natural elements, soil samples were ground using a mortar and a pestle into a fine powder, and were then analyzed for total elements concentrations using an X-Ray Fluorescence (XRF) spectrophotometer (Spectro xepos model manufactured by Amatek materials analysis division, Kleve, Germany) at the Department of Biological Science, University of Cape Town. While the majority of elements were analyzed using the XRF spectrophotometer, N and C were analyzed using a mass spectrometer at the Department of Archaeology, University of Cape Town.

3.2.5 Data analyses

Species richness was evaluated by counting all the different woody species encountered in the study plots. Species abundance was evaluated by counting individuals of the different woody species encountered in the plots. Both range numbers of woody plant species and individuals were evaluated by taking for each category the plot with the least record as the lower range limit and the one with the highest record as the upper range limit. To analyze floristic differentiation across and between the non-spiny and the spiny vegetation formations, clustering analysis was used. Further, analysis of similarity (ANOSIM; Clarke, 1993) was

conducted to test how well and also significantly the non-spiny *Combretum* and the spiny *Acacia* vegetation clusters separated in the cluster plot. To evaluate which woody taxa that greatly contributed to each of the formed vegetation clustering, analysis of similarity percentage (SIMPER; Clarke, 1993) was used. The three analyses (i.e., cluster, ANOSIM, and SIMPER) were executed in PRIMER program version 6, and used plots' woody species abundances as response data. In the analyses, woody species abundance data was fourth root transformed to meet the criterion of normality (Ramette, 2007), then standardized to relative rather than absolute values (Clarke, 1993) and finally pairwise similarity values amongst plots were calculated with the Bray-Curtis index (Bray and Curtis, 1957).

To evaluate differences in means between the soils characteristics of the spiny and non-spiny vegetation communities' soils characteristics, unpaired t-test was used. This analysis was performed in GraphPad Prism 6 statistics software. Lastly, Canonical Correspondence Analysis (CCA), executed in CANOCO 4.5 version (ter Braak and Šmilauer, 2002; Šmilauer and Lepš, 2003), was used to explore the interactions of woody species and soil parameters in the sample plots. Response abundance data for woody species used in the CCA was the same as in the analyses of cluster, ANOSIM and SIMPER. Soil data for this analysis included only variables identified with significant difference between the two studied vegetation types. Species data in the CCA analysis was fourth root transformed to meet assumptions of multivariate normality and to moderate the influence of a few dominant species (ter Braak and Šmilauer, 2002). Multicollinearity among soil variables was checked using variance inflation factors (VIFs) and those exceeding 20 VIF were removed from the model before the execution of the forward selection analyses (ter Braak and Šmilauer, 2002). Randomized 999 Monte

Carlo permutation tests were performed for the model using conditional automatic forwarding options (Šmilauer and Lepš, 2003), and the significance cut-off for the model was taken at $P < 0.05$.

3.3 Results

3.3.1 Vegetation characterization

The study recorded a total of 2749 woody plant individuals, represented by 115 species, 87 genera and 40 families (Table 3.1 and Appendix 3). The minimum and maximum number of species per plot was 4 and 28, respectively, and the mean number of species per plot was 9.88 ± 4.91 in the broad-leaved non-spiny *Combretum – Terminalia* vegetation sample plots and 11.53 ± 5.50 in the fine-leaved spiny *Acacia – Commiphora* vegetation (Table 3.1). The minimum and maximum number of woody individuals per plot was 25 and 75, respectively. The mean number of individuals per plot was 47.56 ± 12.18 in the fine-leaved spiny *Acacia* vegetation and 49.08 ± 13.23 in the broad-leaved dry non-spiny *Combretum* vegetation sample plots (Table 3.1).

Cluster analysis separated the broad-leaved non-spiny vegetation sample plots from those of fine-leaved spiny vegetation, with each assemblage forming a distinct cluster (Figure 3.2).

Analysis of similarity (ANOSIM) results showed that the formed clusters were well separated ($R = 0.72$), and the separation was statistically significant (< 0.001). Similarity percentage (SIMPER) analysis identified *Terminalia brownii* (21.99%), *Combretum zeyheri* (16.23%), *C. apiculatum* (10.51%), *C. collinum* (9.93%), and *Lantana camara* (9.23%) as the first five species principally characterizing the *Combretum – Terminalia* woodland vegetation cluster. *Acacia tortilis* (21.99%), *A. mellifera* (19.39 %), *Grewia villosa* (6.81%), *Acacia nilotica* (6.37%), and

A. senegal (3.99%) were the first five species predominantly characterizing the fine-leaved spiny *Acacia* – *Commiphora* vegetation cluster.

Table 3.1. Number of woody plant taxa and individuals recorded for the study in the mesic savannas of southeastern Kenya

	Non-spiny	Spiny	Both vegetation types
Species	80	75	115
Genera	64	56	87
Families	32	31	40
woody plants individuals	1227	1522	2749

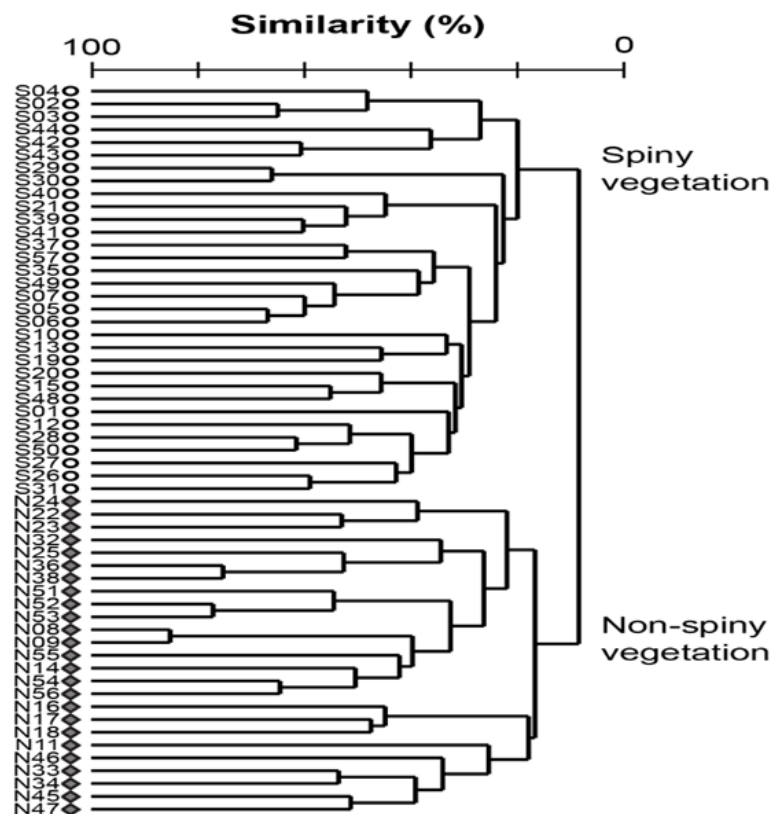


Figure 3.2. Dendrogram of non-spiny (N) and spiny (S) vegetation systems assemblages for the mesic savannas of southeastern Kenya

3.3.2 Soil characterization

Soil element concentration varied significantly between the two vegetation types for 17 of the 41 elements determined (Table 3.2). Fifteen of these (including Mn, Al, Mg, P, Ca, Ti, V, Fe, Co, Cu, Zn, Ga, Br, Y and La) had significantly higher total concentration ratios in the spiny *Acacia* – *Commiphora* vegetation assemblage soils than in the soils of *Combretum* – *Terminalia* woodland vegetation. Only two elements (of the 17 with significant difference between the two vegetation soils), Si and K, had higher total concentrations in the non-spiny *Combretum* – *Terminalia* woodland assemblage soils than in the spiny *Acacia* – *Commiphora* vegetation soil samples. Soil pH did not differ significantly between soils of the two vegetation types. Sand, silt and clay contents varied significantly between the spiny *Acacia* – *Commiphora* vegetation assemblage and *Combretum* – *Terminalia* woodland vegetation soils (Table 3.2). Silt and clay contents were, for example, relatively higher in the spiny *Acacia* – *Commiphora* vegetation assemblage soils than in the soils of *Combretum* – *Terminalia* woodland vegetation. In contrast, soils of the spiny *Acacia* – *Commiphora* vegetation assemblage had lower sand content than those of the *Combretum* – *Terminalia* woodland vegetation (Table 3.2).

Table 3.2 Mean $\pm$ SE of the concentrations of 43 elements corresponding to soil samples collected from the spiny and non-spiny vegetation systems in the mesic savannas of southeastern Kenya. Respective P values are provided as well and the significance threshold is taken at $P < 0.05$. Bolded P values represent elements with a significant difference in concentration difference between soils of the two vegetation systems

Elements (%)	Spiny n=32	Non-spiny n=25	P value
Aluminum (Al)	10.4000 $\pm$ 0.2580	8.9400 $\pm$ 0.3134	0.0006
Antimony (Sb)	0.0000 $\pm$ 0.0000	0.0000 $\pm$ 0.0000	0.8208

Arsenic (As)	0.0001 ± 0.0000	0.0000 ± 0.0000	0.3461
Barium (Ba)	0.1082 ± 0.0078	0.1435 ± 0.0186	0.0632
Bismuth (Bi)	0.0001 ± 0.0000	0.0001 ± 0.0000	0.3815
Bromine (Br)	0.0007 ± 0.0001	0.0004 ± 0.0000	0.0005
Caesium (Cs)	0.0036 ± 0.0008	0.0052 ± 0.0013	0.2812
Calcium (Ca)	1.0260 ± 0.1297	0.4382 ± 0.0453	0.0003
Cerium (Ce)	0.0066 ± 0.0026	0.0037 ± 0.0017	0.3957
Chromium (Cr)	0.0098 ± 0.0058	0.0351 ± 0.0129	0.0593
Cobalt (Co)	0.0011 ± 0.0004	0.0001 ± 0.0000	0.0285
Copper (Cu)	0.0028 ± 0.0003	0.0011 ± 0.0001	0.0001
Gallium (Ga)	0.0017 ± 0.0001	0.0013 ± 0.0001	0.0001
Germanium (Ge)	0.0002 ± 0.0000	0.0002 ± 0.0000	0.7555
Hafnium (Hf)	0.0007 ± 0.0001	0.0008 ± 0.0001	0.6992
Iodine (I)	0.0003 ± 0.0001	0.0002 ± 0.0000	0.2977
Iron (Fe)	4.683 ± 0.5388	1.8710 ± 0.2152	0.0001
Lanthanum (La)	0.3388 ± 0.0694	0.1558 ± 0.0474	0.0447
Lead (Pb)	0.0023 ± 0.0003	0.0028 ± 0.0004	0.2748
Magnesium (Mg)	0.0784 ± 0.0080	0.0370 ± 0.0039	0.0001
Manganese (Mn)	0.1550 ± 0.0338	0.0154 ± 0.0145	0.0011
Mercury (Hg)	0.0000 ± 0.0000	0.0000 ± 0.0000	0.5658
Molybdenum (Mo)	0.0002 ± 0.0000	0.0002 ± 0.0000	0.9201
Nickel (Ni)	0.0033 ± 0.0007	0.0032 ± 0.0007	0.8610
Niobium (Nb)	0.0035 ± 0.0005	0.0027 ± 0.0005	0.2663
Phosphorus (P)	0.1165 ± 0.0226	0.0422 ± 0.0015	0.0054
Potassium (K)	1.4460 ± 0.1166	2.2090 ± 0.1679	0.0003
Rubidium (Rb)	0.0055 ± 0.0003	0.0057 ± 0.0005	0.6729
Selenium (Se)	0.0000 ± 0.0000	0.0000 ± 0.0000	0.6613
Silicon (Si)	24.0000 ± 0.6486	29.5100 ± 0.8163	0.0001
Silicon (Sr)	0.0298 ± 0.0029	0.0330 ± 0.0060	0.6041

Silver (Ag)	0.0001 ± 0.0000	0.0001 ± 0.0000	0.9102
Sulfur (S)	0.0159 ± 0.0018	0.0135 ± 0.0014	0.3099
Tantalum (Ta)	0.0032 ± 0.0001	0.0033 ± 0.0001	0.6816
Thorium (Th)	0.0007 ± 0.0000	0.0006 ± 0.0001	0.2300
Tin (Sn)	0.0001 ± 0.0000	0.0001 ± 0.0000	0.2155
Titanium (Ti)	1.0030 ± 0.1761	0.4142 ± 0.0325	0.0050
Tungsten (W)	0.0001 ± 0.0000	0.0002 ± 0.0000	0.0575
Uranium (U)	0.0001 ± 0.0000	0.0001 ± 0.0000	0.2138
Vanadium (V)	0.0083 ± 0.0025	0.0002 ± 0.0001	0.0069
Yttrium (Y)	0.0030 ± 0.0003	0.0022 ± 0.0002	0.0106
Zinc (Zn)	0.0068 ± 0.0007	0.0027 ± 0.0002	0.0001
Zirconium (Zr)	0.0381 ± 0.0037	0.0417 ± 0.0039	0.5074

3.3.3 Spiny and non-spiny vegetation assemblages-edaphic correlations

Canonical Correspondence Analysis (CCA) results showed a significant woody species-edaphic correlation ($P=0.001$). Six natural soil elements, including Br, Ca, Cu, Ga, Mn, and K, and silt content influenced the model significantly (Table 3.3). The *Acacia* – *Commiphora* spiny-bush vegetation sample plots correlated positively with Br, Ca, Cu, Ga, Mn and silt on the CCA biplot, and inversely with the non-spiny *Combretum* – *Terminalia* woodland plots, which was positively correlated with K (Figure 3.3).

Table 3.3. Results of forward selection analyses of soil variables in the CCA model for the vegetation assemblages-edaphic correlation of mesic savannas of southern Kenya, focussing on non-spiny and spiny vegetation

Variable	F ratio	P value	Variable	F ratio	P value
Al	1.34	0.110	Mg	1.36	0.056
Br	1.47	0.028	Mn	1.88	0.028

Ca	1.88	0.006	Si	1.32	0.100
Co	1.33	0.132	Y	1.41	0.052
Cu	2.04	0.002	Zn	1.31	0.102
Ga	1.41	0.040	Clay	0.98	0.454
K	2.79	0.002	Sand	1.16	0.304
La	1.14	0.288	Silt	1.64	0.004

Only variables with significant difference between soils of the two sampled plant systems and which are also relatively independent of multicollinearity are included in the list. Significant elements with $P < 0.05$ are presented in bold.

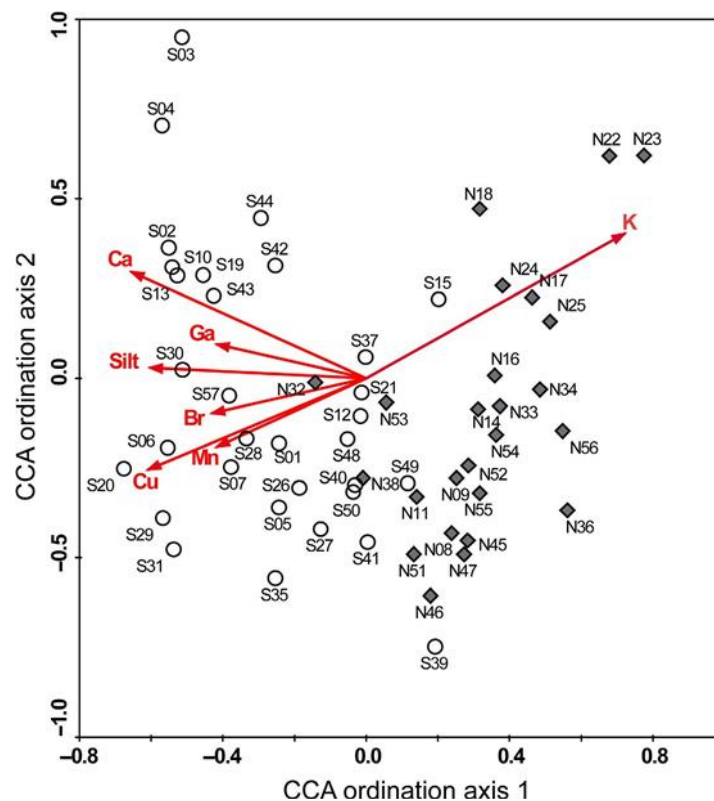


Figure 3.3. CCA attribute plot of non-spiny (N) and spiny (S) vegetation systems constrained by soil elements statuses in the mesic savanna of southeastern Kenya. Eigenvalues of axes one, two, three and four were 0.51, 0.36, 0.31 and 0.29, respectively. Sum of all canonical eigenvalues is 2.85, and total inertia is 8.45. The first two axes accounted for 30.50% of the variation in species-environment relationships. Only significant and independent attribute factors are presented

3.4 Discussion

The total number of woody plant species (115) recorded by the current study is higher than the 85 species recorded by Schmitt *et al.* (2019) but lower than the 139 species reported by Mengich *et al.* (2013) in a similar habitat. The disparity in the number of species recorded by the three studies, despite being conducted in similar habitats (i.e., *Acacia – Commiphora* and dry *Combretum – Terminalia* vegetation mosaics) and sampling plants of more or less similar habit (i.e., woody species), could largely be explained by differences in the studies' purposes as well the sampling designs. The current study, for example, investigated non-spiny and spiny vegetation occurring away from riverine habitats, Schmitt *et al.* (2019) study sampled a riparian landscape, and Mengich *et al.* (2013) studied differences in occurrences of indigenous plant woody species along elevational and moisture index gradients. It is also possible that the region corresponding to this study could yield higher records than what the current study documents. Additional species could have been encountered if the sampling had included the hilltops that are scattered throughout the area (see studies by Malonza *et al.* (2006), Malombe *et al.* (2015), among others). The hilltop habitats do not harbour either of the plant communities, and contain floristic elements similar to the Afromontane forests, and were therefore not sampled. Nevertheless, the current sampling strategy has provided floristic data to adequately represent the two plant communities that are within the scope of this study.

Based on the abundance data of the woody species encountered in this study, there is substantial evidence that supports the differentiation between the non-spiny (*Combretum – Terminalia*) woodland and the (*Acacia – Commiphora*) spiny-bush vegetation systems. This observation, which is grounded in empirical field data, is interpreted here to show points where factors

controlling species distributions and community species compositions break supports the study test for distinct plant assemblages in a landscape. In ecological context, the finding can be viewed to demonstrate coexistence, which is independent of macro-environmental filters, of the two vegetation systems within a single landscape ecosystem. In fact, non-spiny *Combretum – Terminalia* and spiny *Acacia – Commiphora* woodland vegetation mosaics were recorded throughout the study area, implying that the climate of the area supports both systems. The boundaries between non-spiny *Combretum – Terminalia* and spiny *Acacia – Commiphora* woodland vegetation, despite their close proximity, perhaps indicate presence of an ecological switch (Wilson and Agnew, 1992).

During sampling, the study noted that the non-spiny *Combretum – Terminalia* woodlands overlapped with sandy soils and the spiny *Acacia – Commiphora* vegetation is associated with sandy loam soils. Further, soil data results showed the two vegetation assemblages occupy discrete edaphic niches characterized by higher quantities of sand (*Combretum – Terminalia* woodland) versus higher silt and clay (*Acacia – Commiphora* woodlands). In addition, the non-spiny *Combretum – Terminalia* woodland compared to *Acacia – Commiphora* vegetation occurred on soils that typically had lower total elemental concentrations compared to *Acacia – Commiphora* vegetation, exception for potassium and silicon (Table 2). It is possible that differences in soil texture between the two studied vegetation systems, despite a shared regional geology, could have emerged as a consequence of varied weathering processes leading to a mosaic of soils. Indeed, the differing features of the soil are recognized in local indigenous knowledge, with local (Akamba) names (*uthangathi* – sandy; *utune* – reddish) encapsulating the characteristics of the sandy and clay-rich soils. The marked soil nutritional differences between

the two vegetation systems, in addition, could be accounted for by biotic activity differences involving feedback loops and thresholds in the biological cycling of nutrients (see Scholes, 1990; Coetsee *et al.*, 2015). Additionally, the higher weathering ratio of *Acacia – Commiphora* vegetation compared to *Combretum – Terminalia* woodland soil may further imply that mobile elements have been leached from the *Combretum – Terminalia* woodland's coarser soils. Furthermore, the study observed vegetation assemblages broadly coincide with recognized vegetation units (van Breugel *et al.*, 2015; Kindt *et al.*, 2015), classified as the Dry *Combretum* wooded grassland (Wcd) and Somali-Masai *Acacia-Commiphora* deciduous bushland and thicket (Bd). While the two vegetation types extend beyond our study area in Eastern Africa, the author of this study is unaware of similar mosaics and hypothesizes that particular climatic and edaphic regimes sustain the mosaic phenomenon studied here.

Site soil heterogeneity has, in part, been shown to determine the spatial patterns of plant communities within savanna ecosystems. Scholes *et al.* (2001) reported partitioning of savanna vegetation based on soil types in Kruger National Park in South Africa, with non-spiny broad-leaved vegetation communities on sandy soils and spiny fine-leaved vegetation communities on soils with higher clay contents. Also, a study by Ruggiero *et al.* (2002) on the southeastern Brazilian savanna found a clear distinction between semideciduous forest and cerrado vegetation related to differences in soil composition. In the Ruggiero *et al.* (2002) study, however, differences in soil composition did not segregate three sub-physiognomies of the larger cerrado physiognomy, implying landscape boundaries for tropical savannas plant communities are not solely defined by differences among the soil statuses of sites but also by positive feedbacks of other factors (i.e., hydrology, herbivory, fire). Similarly, Pringle *et al.* (2016) established through

field experiments that sharp borders between two communities of *Acacia* tree species (*A. drepanolobium* and *A. brevispica*) in the East African savannas of Mpala research centre (Laikipia plateau in central Kenya) are formed through interactions between large-mammal herbivory and soil statuses. Analyses of the current study demonstrated a significant correlation of the vegetation assembling-edaphic relationship. The study finding provides strong evidence in support of the study's hypothesis that local edaphic heterogeneity defines a landscape boundary between the two focal vegetation physiognomies in the study area. The result may be extrapolated to mean that positive feedback involving soil characteristics may be among the important micro-environmental filters affecting woody floristic composition within the local landscapes of East Africa and elsewhere in the tropics.

Lastly, it must be noted that this study was undertaken on woodland remnants mostly found on privately owned lands, and in a landscape that has experienced human activity for millennia (Marchant *et al.*, 2018). Thus, as these lands are within agricultural areas (subsistence crop farming and livestock, especially cattle and goats), fire management of vegetation is uncommon and hence, the role of fire and mega-herbivores in shaping the current vegetation assemblage may be atypical (see Owen-Smith, 1989; Bond *et al.*, 2001; Lehmann *et al.*, 2011; Pringle *et al.*, 2016; and Owen-Smith, 2021). Further, while the study showed that the two vegetation systems coexist as a mosaic defined by soil status, it would be also worthwhile to examine the evolution of the two assemblages under the disturbances of livestock and potentially selective cutting of woody species in the communal lands.

In conclusion, the current study presents field-based evidence that distinct vegetation assemblage types coexist in similar climatic conditions partitioned by edaphic parameters. Overall, the result may indicate that positive feedback involving soil composition may be important micro-environmental factors driving and maintaining disparity in discrete woody communities within landscapes of East African savannas and potentially elsewhere in the tropics. The empirical data provided in this study, defining boundary conditions of discrete woody communities, has implications for the management of the two studied ecosystems regarding distribution of particular members of the assemblages and their associated biota. Understanding the role of feedback loops involving soil composition as a driver of diversity in woody systems associated with the mesic savanna ecosystems of southeastern Kenya might, for instance, have important ramifications for sustainable utilization of such ecosystems in the region and elsewhere in East Africa savannas. Among other things, the data could guide in matching indigenous woody species with their suitable soils in efforts of rehabilitating degraded sites frequently occurring within the mesic savanna landscapes of southeastern Kenya (Mengich *et al.*, 2013; Schmitt *et al.*, 2019).

CHAPTER FOUR: PLANT DEFENSE TRAITS AMONG DISCRETE VEGETATION ASSEMBLAGES IN A MESIC SAVANNA LANDSCAPE IN KENYA

4.1 Introduction

Plants are primary producers in most terrestrial ecosystems (Woodwell & Whittaker 1968).

Hence, one prominent set of adaptations in many plant species is defense against herbivores. As protection against herbivory, plants have evolved anti-herbivore traits that limit negative effects of herbivory. Herbivores on their side are favored by natural selection to circumvent plant resistance including the ability to detoxify tannins (Robbins *et al.* 1987), and leaf-picking instead of pruning for spinescent plant species (Gowda 1996; Rooke *et al.* 2004). The evolutionary arms race between plants and herbivores explained to has resulted in a wide array of resistance traits in terrestrial plants, such as spines, leaf hairs, and compounds that are toxic or unpalatable to herbivores (Erlich & Raven 1964; Janz 2011).

Plants employ several different defense strategies against herbivory, including structural (Hanley *et al.* 2007; War *et al.* 2018) and chemical (War *et al.* 2018) defenses. Structural defense traits, such as leaf pubescence and leaf sclerophylly, affect herbivores by decreasing both palatability and digestibility (Hanley *et al.* 2007). Spinescence, also a form of structural defense trait where parts of the plant shoot are modified into sharp tips, affects herbivory by reducing feeding rates (Gowda 1996). Among the chemical defense types, tannins serve as a potent defensive secondary metabolite, as they bind proteins, inhibit enzymatic activity, and render protein present in a food nutritionally unavailable for herbivory (Mazid *et al.* 2011; Swain 1977), whereas aspects of plants' nutritional quality influence plants-herbivory interactions (see McNaughton 1988; Agrawal & Fishbein 2006; Wigley *et al.*, 2018).

A trade-off between structural and chemical defense strategies is alleged for fertile soil fine-leaved and infertile soil broad-leaved African savanna woody plants (Scholes and Walker, 2004). The basis for this dichotomy is that fine-leaved wood plants, growing in nutrient-rich areas, tend to have high nutrient content leaves that are tasty and attractive to herbivores. As such, for the trees to defend themselves from intense mammalian browsing, they invest in physical defenses in the form of thorns. Broad-leaved trees growing in nutrient-poor areas in African savanna landscapes, on the other hand, due to nutrient limitations at their areas, are purported to employ a low nutrient/high chemical defense strategy (low nitrogen, low specific leaf area and presence of secondary metabolites) that make them unattractive to herbivores. Strong empirical support for a trade-off between the two defenses (i.e., structural and chemical) in plants however is said to lack (Moles *et al.*, 2013).

In this study, I used common trees of nutrient-rich soils (dominated with spiny *Acacia* species) and nutrient-poor soils (dominated by non-spiny Combretaceae species) from a savanna landscape in Kenya, to further the understanding of structural and chemical defense traits dynamics on African savanna nutrient-rich versus -poor soils wood trees. I tested two hypotheses: (1) high nutrient/low chemical defense strategy is associated with fine-leaved plants occurring in nutrient richer soils whereas broad-leaved plants occurring in nutrient poor soils are associated with low nutrient/high chemical defense strategy; and (2) there is a tradeoff in allocation to traits associated with structural versus chemical defense strategies between nutrient-rich versus -poor soils African savanna wood plants.

4.2 Materials and Methods

4.2.1 Description of study sites

The study was conducted at the southeastern part of Kenya (0.67°S to 2.62°S , 37.70°E to 38.09°E ; see Figure 1a), in East Africa (Figure 1b). Study sites are a subset of the sites studied in chapter 3 of this study (also, Kimeu *et al.*, 2020). They comprise a set of four sites of broad-leaved wood plant community (Figure 1c), and another set of four sites of fine-leaved wood plant community. Fine and broad-leaved wood plant communities were established in chapter 3 of this study—Table 3.2 (also, Kimeu *et al.*, 2020) to occur in nutrient richer and nutrient poor soils, respectively. Domestic herds (largely goats) and small African mammalian browsers (e.g., dik-diks and antelopes) are the browsing ungulates predominant in the vegetation in the last 50 years. However, the vegetation is part of the larger East African savannas, which in the past formed one continuous ecosystem that harbored a large population of African mega-herbivores (Marchant *et al.* 2018). Thus, the study vegetation likely evolved in the presence of large densities of mega-herbivores.

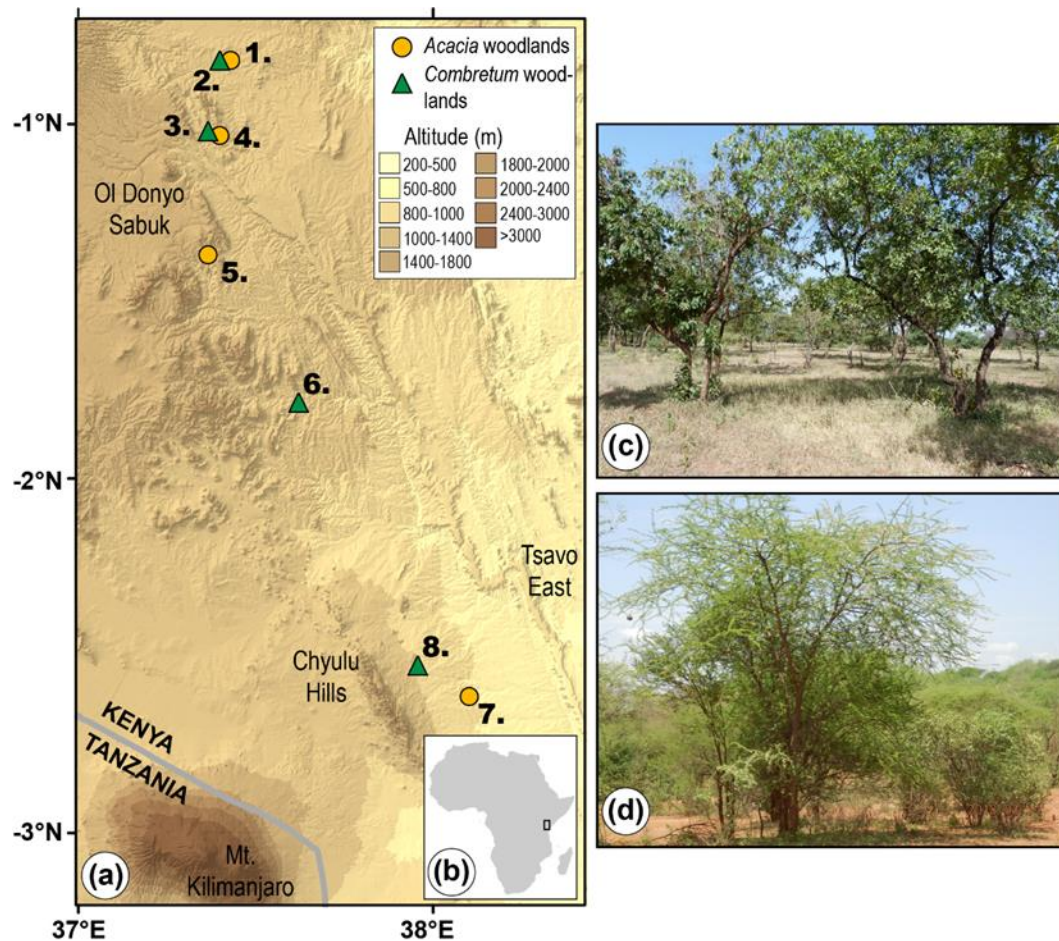


Figure 4.1. Sampling sites and exemplar of vegetation types. A) location of fertile soil fine-leaved (circle, orange) and infertile broad-leaved (triangle, green) vegetation types, b) position of study area in tropical Africa, c) broad-leaved *Combretum* dominated woodlands, d) fine-leaved *Acacia* dominated woodlands.

4.2.2 Sampling strategy

I sampled woody plant species from eight sites — four sites from fertile soil fine-leaved *Acacia* dominated vegetation and another four sites from infertile soil broad-leaved *Combretum* dominated vegetation — for leaf samples. Sampling was conducted within a two-week period in December 2019 to January 2020. Fully expanded mature leaves were sampled from three mature individuals (10 leaves per individual) of each species at every site the species was occurring (see Appendix 4). The study sampled only indigenous woody species, and with a specific focus on

spiny *Acacia* and non-spiny Combretaceae species, which in the area are not only almost exclusively restricted to fine-leaved *Acacia* – *Commiphora* vegetation sites and broad-leaved *Combretum* – *Terminalia* vegetation type sites, respectively, but also chapter 3 of this thesis (and also, Kimeu *et al.*, 2020) showed to be the most dominant and frequent species to the study area.

4.2.3 Measurement of plant traits

Four leaf traits including specific leaf area (SLA), leaf nitrogen (N), leaf structural carbon (C) and leaf condensed tannins (CTs) were sampled. Specific leaf area (SLA) for every sample plant was calculated from averaged leaf areas and masses taken from 10 mature and undamaged leaves collected per individual sample plant. Areas for leaf samples were determined using the open source software ImageJ (Abràmoff *et al.* 2004). Leaf samples images used in ImageJ encompassed a photograph of a whole leaf (i.e., including both petiole and rachis) photographed shortly after its collection (see Figure 4.2). Leaf weights were measured on air dried leaf samples using a 0.01 gram digital electronic portable measuring scale. The weighing was carried out at the University of Cape Town in the Biological Science department ecology laboratory.

Measurement of leaf chemical traits used the same leaf samples examined for the specific leaf area (SLA) attribute. Specifically, the 10 leaves collected for each individual plant sample were pooled into one composite sample. Each composite was then mill ground to pass through a 2 mm sieve using a Hammer mill (United Scientific, Cape Town, SA). Leaf nitrogen (N) and carbon (C) contents were analysed using Thermo Scientific FLASH 2000 CHN Elemental Analyser (Thermo Fisher Scientific Inc., Massachusetts, USA). I used the protocol by Porter *et al.* (1986), as modified by Hagerman (2002), for quantifying condensed tannins (CTs) in plant samples

leaves, and used purified *Sorghum* tannin as the protocol calibration standard (Hattas & Julkunen-Tiitto 2012).

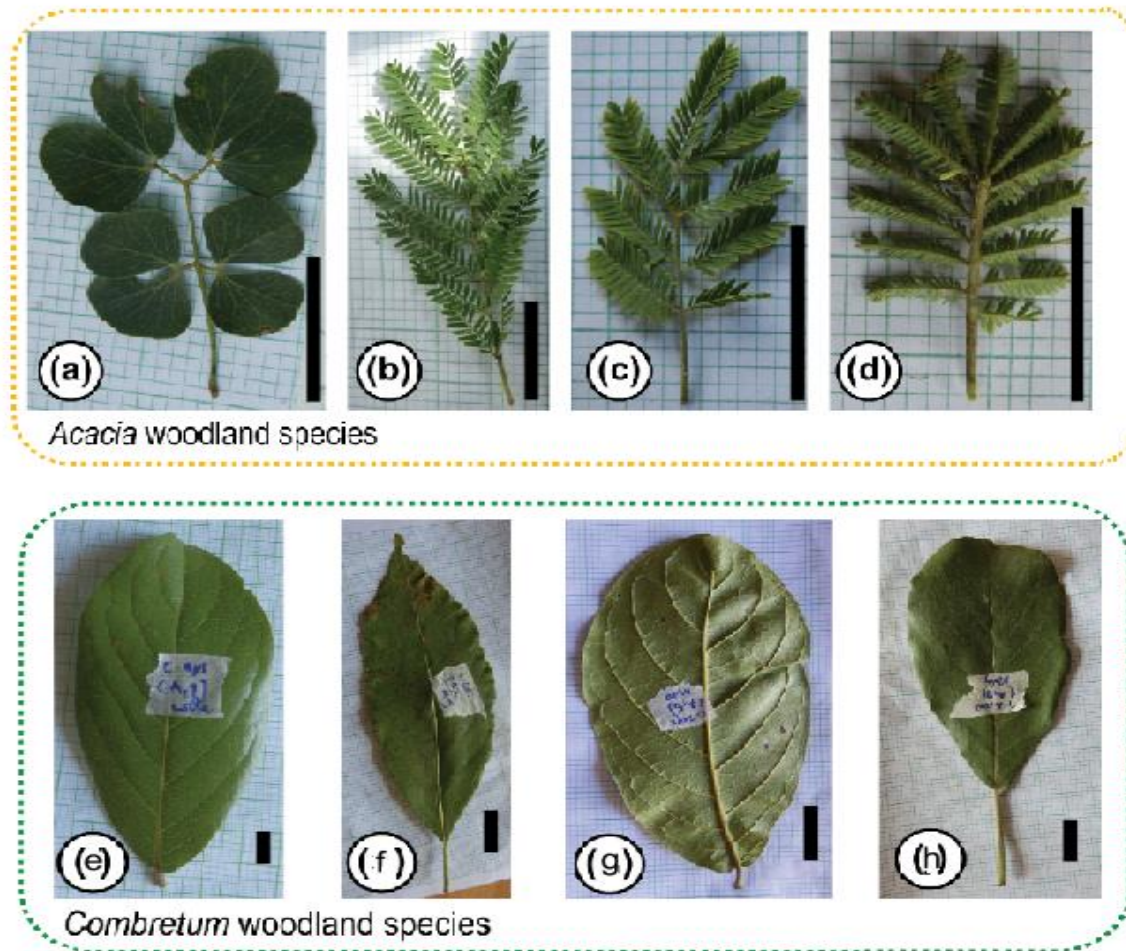


Figure 4.2 (a-h) representative leaf specimens of fertile soil *Acacia* woodland species (a) *Acacia mellifera*, (b) *A. nilotica*, (c) *A. senegal*, and (d) *A. tortilis*. (e-h) representative leaf specimens of infertile soil *Combretum* woodland species (e) *Combretum apiculatum*, (f) *C. collinum*, (g) *C. zeyheri*, and (h) *Terminalia brownii*.

4.2.4 Statistical analyses

To test whether nutrient-rich soils fine- and nutrient-poor soils broad-leaved African savanna woody plants assemblages invest in diverging leaf traits, I ran linear discriminant analysis using the ‘Mass’ package in R to assess how well the predicted groups were able to assign each sample

species to the correct group based on leaf traits SLA, nitrogen, carbon and condensed tannins. Further, I used boxplot tool (in the R ‘stats’ package) to evaluate spread of values for the sampled leaf traits. To test evidence for trade-off in allocation to leaf traits associated with structural defense versus chemical defense in nutrient-rich soils, fine-leaved and nutrient-poor soils, broad-leaved woody species, I correlated SLA trait (which encompasses the aspect of a plant sclerophylly index) versus each of the other three leaf chemical traits investigated; nitrogen, carbon and condensed tannins (used the ‘cor.test’ function of the R ‘stats’ package), and plotted the plants for the groups in scatterplots spaces, with different symbols used for each group.

4.3 Results

A total of 93 plants (42 and 39 of from sites of *Acacia* dominated and *Combretum* dominated woody plant communities, respectively) were recorded for this study (Table 4.1).

Table 4.1. Commonest woody plant species in fertile soil fine-leaved *Acacia* – *Commiphora* and infertile soil broad-leaved *Combretum* – *Terminalia* woody plant communities at the mesic savanna of southeastern Kenya.

Vegetation community	Species	Sampled individuals
Fine-leaved <i>Acacia</i> – <i>Commiphora</i> woodland	<i>Acacia mellifera</i> (M.Vahl) Benth.	12
	<i>A. nilotica</i> (L.) Willd.	9
	<i>A. senegal</i> (L.) Willd.	9
	<i>A. tortilis</i> (Forssk.) Hayne	12
Broad-leaved <i>Combretum</i> – <i>Terminalia</i> woodland	<i>Combretum apiculatum</i> Sond.	9
	<i>C. collinum</i> Fresen	12
	<i>C. zeyheri</i> Sond.	9
	<i>Terminalia brownii</i> Fresen	9

4.3.1 Defense strategies for African savanna woody plants

Linear discriminant analysis (LDA; Figure 4.3) revealed 86.98% variance of the studied leaf traits distributed along LDA1 (50.45% variance) and LD2 (36.53.1% variance). Despite some overlap, a separation is evidenced between fine-leaved, spinescent *Acacia* and broad-leaved, non-spinescent Combretaceae species along axis LDI (Figure 4.3), and was primarily related most with SLA and nitrogen predictor variables (Table 4.2). *Acacia* and *Combretum* community leaf samples however did not separate along LD2, which was principally correlated with carbon and condensed tannins variables (Table 4.2).

When I compared measurements for each of the four sampled leaf traits between fine-leaved and broad-leaved plant functional groups (Figure 4.4), both SLA and leaf nitrogen differed markedly between the two plant functional groups. All fine-leaved spiny *Acacia* species had higher SLA than broad-leaved none-spiny Combretaceae species (Figure 4.4a). Fine-leaved spiny *Acacia* species again had higher leaf nitrogen content than Combretaceae species, except *Terminalia brownii* (Combretaceae) that had leaf nitrogen content overlapping with some of the spiny *Acacia* species (Figure 4.4b). This pattern however was not repeated for leaf carbon and condensed tannins — the two traits did not show a clear separation between leaf samples of fine-leaved spinescent *Acacia* species and broad-leaved non-spinescent Combretaceae species. Leaf carbon and condensed tannins traits had high and low peaks, which were species-specific rather than vegetation-type specific (Figure 4.4c &d).

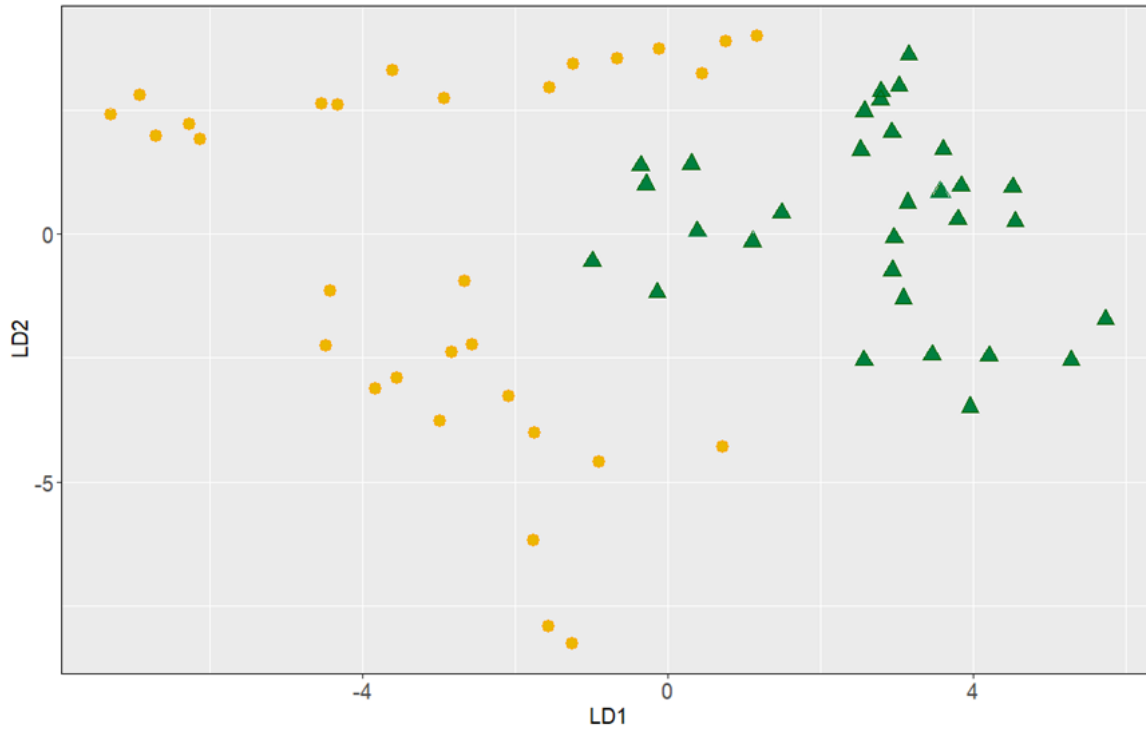


Figure 4.3. LDA leaf attribute plot of common species of *Acacia* fine-leaved (●) and *Combretum* broad-leaved (▲) woodlands of the mesic savannas of southeastern Kenya constrained by leaf traits SLA, nitrogen, carbon and condensed tannin.

Table 4.2. Coefficient of linear discriminants for the study leaf traits along axes LD1 and 2 derived from the study linear discriminant model.

Leaf traits	Coefficient of linear discriminants	
	LD1	LD2
Specific leaf area (SLA)	-0.55558	0.150028
Nitrogen (N)	-2.69444	-0.45165
Carbon (C)	0.360062	0.447298
Condensed tannins (CTs)	0.237265	-3.10071

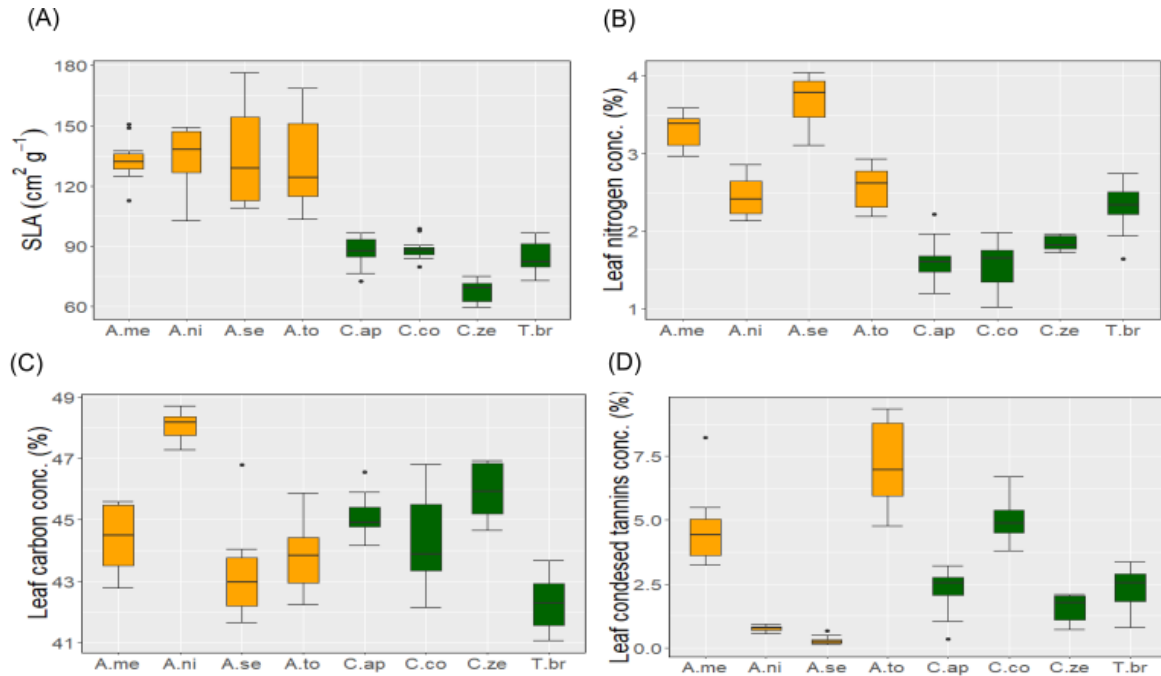


Figure 4.4. Box plots showing SLA, leaf nitrogen, total carbon and condensed tannin traits profiles for the common species (*Acacia mellifera* (A.me), *A. nilotica* (A.ni), *A. senegal* (A.se), *A. tortilis* (A.to), *Combretum apiculatum* (C.ap), *C. collinum* (C.co), *C. zehyeri* (C.ze) and *Terminalia brownii* (T.br)) of spiny, fine-leaved (orange) and non-spiny, broad-leaved (green) vegetation systems of the mesic savannas of southeastern Kenya.

4.3.2 Defense strategies tradeoffs for African savanna woody plants

Despite some overlap, the current data revealed evidence for a trade-off of leaf nitrogen content profiles between *Acacia* and Combretaceae species (Figure 4.5A). The correlation coefficient for N, between fine- and broad-leaved vegetation leaf categories, is significant ($r = 0.67$, $P < 0.001$). Carbon and condensed tannins leaf traits, however, did not show evidence to trade-off between fine- and broad-leaved leaf samples, where the correlation coefficients recovered for carbon and condensed tannins between fine- and broad-leaved vegetation leaf categories both are low and not significant ($r = 0.12$, $p = 0.240$ for carbon (Figure 4.4B), and $r = 0.13$, $p = 0.210$ for condensed tannins (Figure 4.4C)).

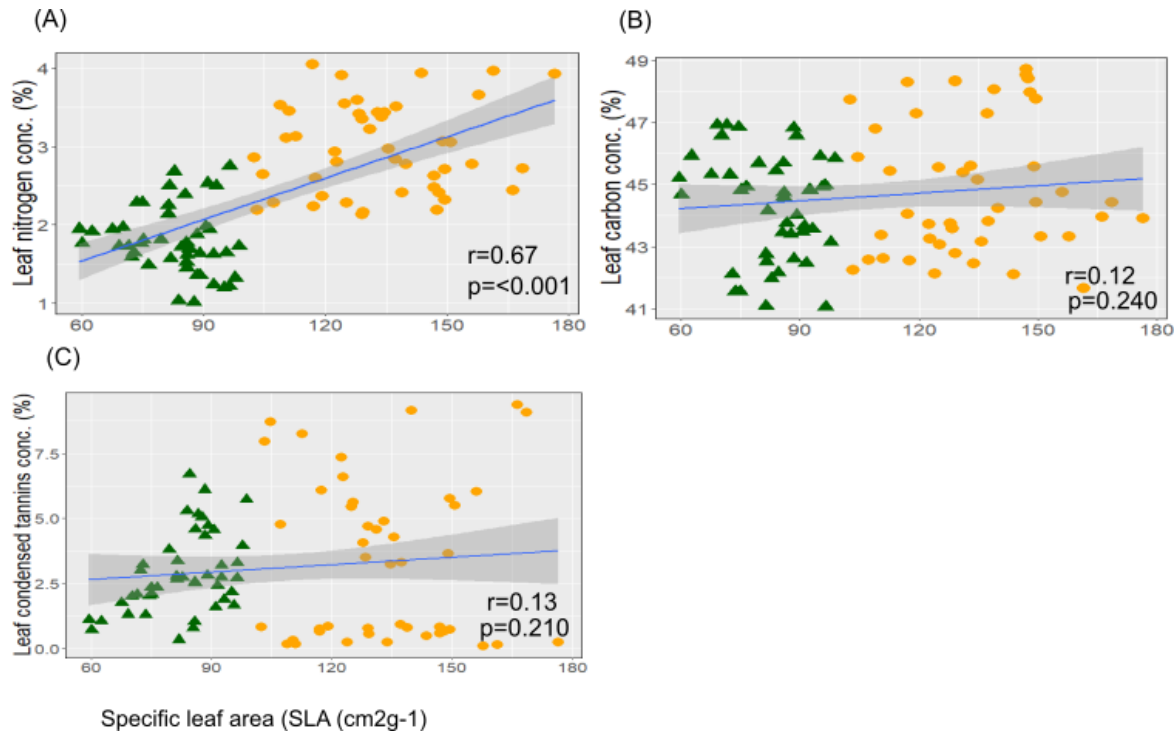


Figure 4.5. Pearson correlations of SLA plotted against leaf chemical traits nitrogen, carbon and condensed tannins for spiny fine-leaved (●) and non-spiny broad-leaved (▲) vegetation species of the mesic savanna of southeastern Kenya.

4.4 Discussion

This study set to test a trade-off between structural and chemical defense strategies alleged for fertile soil fine-leaved and infertile soil broad-leaved African savanna woody plants (Scholes and Walker 2004). The data presented here did not consistently support a trade-off between structural and chemical defense strategies traits in fertile soil fine-leaved and infertile soil broad-leaved woody plant samples. Both leaf SLA and N indices were generally different between fertile soil fine-leaved and infertile soil broad-leaved plant samples, and with a trend of higher quality (i.e., higher SLA and N) in fertile soil fine-leaved plant samples compared to the infertile soil broad-leaved plant samples. This trend however is not replicated for the other sampled two leaf traits (leaf carbon [C] and condensed tannins [CTs]).

It is unclear why in the current data fine-leaved species invest to high carbon concentration (Figure 4.4C), but fine-leaved species are assumed to be defended by physical defense in the form of thorns (Scholes and Walker 2004) — although carbon is a critical structural element that provide biomechanical support and protection for plant tissues (Niinemets and Tamm, 2005). It is also not clear why some fine-leaved species invest to high condensed tannins (Figure 4.4D), and yet this is a trait hypothesised for broad-leaved savanna trees (see Scholes and Walker 2004, and also Tomlinson *et al.* 2016). Condensed tannin concentration has been shown to influence diet choice as it makes nutrients less available after ingesting (Ward & Young 2002, Scogings *et al.* 2004). Similar to current results, however, both low and high CTs indices have been previously reported by other studies focussing on fine-leaved spiny woody plant species in African savannas. In north-central Kenya, fine-leaved *Acacia drepanolobium* browsed by antelope and megaherbivores contained 1.0 to 17.1% CTs (Ward & Young 2002). Furthermore, in the same study area, *A. etbaica* and *A. brevispica* contained 1.3% and 20.8% CTs, respectively (Ward & Young 2002; Ford *et al.* 2014).

Leaf nitrogen is one of the most important nutrients for browsers as it strongly correlates to protein content (see Owen-Smith 2005). Infertile soil broad-leaved African savanna woody plants are associated with low leaf nutrition defense syndrome (Scholes and Walker 2004), a trait that ensures that the species leaf material is of insufficient nutritive value for herbivores. In the present data *Terminalia brownii* trees have high nitrogen content and yet the other sampled broad-leaved tree species do not. In Beentje's (1994) scheme of descriptions for Kenya trees, shrubs and lianas, species of *Terminalia brownii* is described with pubescent leaves (and leaves

of the other broad-leaved species sampled by this study as glabrescent). Leaf pubescence trait in plants is an effective physical defense trait against adult insects and their larval stage (War *et al.* 2012), and at the same time can confer resistance to drought stress reducing evapotranspiration in plants (Ehleringer and Mooney, 1978; Jordan *et al.*, 2008; Konrad *et al.*, 2015). Insect herbivory is prevalent in the tropical mesic savanna, especially during the early rains when leaves are rapidly expanding. Since in the current data other broad-leaved species sampled under a similar environment as the species of *Terminalia brownii* have low leaf nitrogen content (and none has leaf pubescence), perhaps the *Terminalia brownii* leaf pubescence trait is evolved to defend the species from attack by invertebrate herbivory due to its high leaf nitrogen content. Support for this assertion, however, for now can only be speculated. Also, considering that this study only sampled most common species in the study area, a comparison of more species would be necessary, for example, to explore further the extent to which high nutrient leaf syndrome trend can manifest in the nutrient-poor soils African savanna trees.

It is unclear whether chemical defense traits are co-employed with structural anti-herbivore ones to produce a synergistic defense (see Agrawal & Fishbein 2006) in African savanna tree species. From the data presented here, however, it is emanating that traits of both strategies may augment each other and not necessarily trade-off. This concept in a way contradicts the commonly held belief that savanna woody plant species utilise two different strategies based on their defences against herbivory; a low nutrient/high chemical defence strategy and a nutrition paired with mostly architectural defences strategy (Scholes and Walker 2004; Tomlinson *et al.* 2016). The current results are congruent with the emerging notion that a section of spiny trees species of

African savanna landscapes could invest in chemical anti-herbivore defenses equally to broad-leaved trees of African savannas (Wigley *et al.* 2018, 2019).

Aspects of phylogenetic history are known to shape expression of suites of defense traits in species, and especially for sample species that are closely related (Agrawal & Fishbein 2006). In the current study, for each vegetation type I sampled species from a single family (Fabaceae and Combretaceae for fine- and broad-leaved vegetation types, respectively). It could then be argued that the trait patterns recovered in the present data are mostly likely highly biased to the plants families used rather than to convergent expressions associated with environmental filtering (here vegetation soil types and also selective herbivore pressures), as was prior thought in this study. While I take the cognizance of a consequence of functional attributes having deep historical origins, however, in the study area where this was conducted grows two Combretaceae species (*Combretum aculeatum* and *Terminalia spinosa* (see Kimeu *et al.* 2020)) of relatively fine-leaved and spines, but none of the sampled Combretaceae species has these traits. Moreover, these two Combretaceae species with small leaves and spines grow exclusively in fertile soil areas with the spiny *Acacia* species, suggesting that their similar traits with spiny *Acacia* species, rather than with other Combretaceae species, might be showing convergent expressions associated with environmental filtering. This observation, to a greater extent, thus, can be cited to support the traits expressions associated with environmental filtering concept investigated for the present study data.

Overall, results of this study show that plant anti-herbivory defenses are complex and perhaps operating in tandem. The dominant species in each vegetation type in the study showed the two

defense strategies may overlap, for example, atleast with some species combining structural defense strategy traits (nutritious leaves [high SLA and nitrogen]) with chemical defenses (CTs and carbon). Thus, the results suggest that multiple defense strategies may arise within the same ecosystem, and that the assumption that one defense strategy is only shared within the same ecosystem may be too simplistic (see Agrawal & Fishbein 2006). More importantly, the current study greatly contributes to understanding plants' herbivory niche partition that could account for the high herbivore diversity supported by wood species within landscapes of East Africa savannas.

CHAPTER FIVE: AGE AND PHYLOGENETIC STRUCTURE OF THE VEGETATION OF KENYA

5.1 Introduction

Ages of regional floras can be addressed using fossil records (for example Bamford, 2011; Linder, 2017) or in some cases, by using dated molecular phylogenies approach (e.g., Maurin *et al.*, 2014; Lu *et al.*, 2018). While both approaches may provide insights for both conservation planning and evolutionary biology, unfortunately the sparsity of the terrestrial fossil record imposes a limit to the strength of inference that can be drawn from such data. With this bottleneck in regard to fossil records, and given that data on molecular phylogenies are nowadays available for many groups of organisms, then dated molecular phylogenies offer a more suitable approach for exploring ages of regional floras.

Phylogenetic frameworks are increasingly used in studying ages of regional floras, but Kenya lacks evidence of high resolution fossil-calibrated phylogeny suitable for reconstructing its flora. For example, there has been no previous study that has incorporated a well-sampled phylogeny with a focus to reconstruct evolutionary patterns and community phylogenetics for the entirety of the vegetation of Kenya. Presently, the vegetation of Kenya has about 6300 vascular plant species (Zhou, *et al.*, 2017) among which, 1800 species are woody (Beentje, 1994). These plant species largely fall within three phytochoria of Africa that include 1) the Afromontane archipelago, 2) the Somali-Masai and 3) Zanzibar-Inhambane (White, 1983). The Somali-Masai, which in its entirety extends from Eritrea to Tanzania, is the most predominant division in Kenya, covering about 83% of the total country area (Brink *et al.*, 2013). The phytochorion is characterized by low rainfall and aridity (White, 1983; Fayolle *et al.*, 2019). Zanzibar-Inhambane

is represented by the strip of lowland woodlands and forests growing along the coast of the Indian Ocean, which stretch from the coast of southern Somali, through a relative narrow coastal belt along Kenya and Tanzania, and terminates almost at the southern end of the Mozambique coast (White, 1983). The Afromontane archipelago phytochorion, the other major phytochorion for the Kenya's vegetation, encompasses montane and alpine flora of the mountain landscape, varying in height from 1500 m to over 5000 m above sea level, and accounts for about 10 % of the Kenya's land surface (MEWNR, 2015).

Age wise, Zanzibar-Inhambane is hypothesized to be ancient. The phytochorion is believed to be a remnant of the African-wide forest vegetation that covered the whole of Africa in the Eocene (Burgess *et al.*, 1998; Burgess and Clarke, 2000; Morley, 2000). Formation of the Rift Valley at about 10 Ma raised the Africa landscape, argued to have disrupted the tropical forest landscape in the continent — which radically altered climate and drainage systems and created new niches presently occupied by afromontane and afroalpine vegetation (Sepulchre *et al.*, 2006; Bentley *et al.*, 2014; Mairal *et al.*, 2017). The Eastern Arc block of mountains in east Africa that also have the Afromontane vegetation, however, are said to formed at least 30 million years ago (Lovett, 1990; Lovett *et al.*, 2004). Moreover, savannas, which contain the Somali-Masai phytogeographical division, are thought to have been triggered by aridification and coincided with the establishment of C4 grasslands since 8 Ma (Beerling and Osborne, 2006; Sepulchre *et al.*, 2006), became dominant from about 3 Ma (see Cerling *et al.*, 1997 & 2013). As such, species arising in the Somali-Masai phytochorion are expected to be more recent, occupying habitats that previously supported forests, see for example forest-like fossil logs (Figure 5.1) located in a

fossil site in Turkana region (northern Kenya) which their age is dated at 1.95 Ma (Bamford, 2011).



Figure 5.1 Fossil logs with Somali-Masai vegetation assemblage located in East Turkana Basin.

In the present study, I conducted a broad assessment of spatio-temporal divergence patterns of the assembly of the Kenya woody flora using a robustly dated phylogeny and explored the following three hypotheses 1) the East African coastline vegetation represents relictual lineages of the African-wide forest, but perhaps recently habitats have emerged presently occupied by relatively younger lineages, 2) the origin dates of the Afromontane lineages post-date the Rift Valley formation, and 3) the diversification times of the Somali-Masai lineages follow

aridification phases that punctuated East African environmental evolution during the late Neogene period.

Over the last two decades, there has been a considerable effort to infer the evolutionary history and genealogical relationships of species to address questions related to community assembly and diversity using dated phylogenies (e.g., Webb *et al.* 2002; Gillespie 2004; Strauss *et al.* 2006; Forest *et al.*, 2007; Vamosi *et al.*, 2008; Muscarella *et al.*, 2014; Elliott and Davies, 2019; Boru *et al.*, 2019; García-Navas, 2019). This relatively new field of research now allows community ecologists to link short-term local processes to continental and global processes that occur over deep evolutionary time scales (Losos, 1996; Ackerly, 2003; Ricklefs, 2008; Mittelbach *et al.*, 2007; Donoghue, 2008; Emerson and Gillespie, 2008). Phylogenetic diversity (PD), which is defined as the sum of all the branch lengths connecting taxa in a defined region (Faith, 1992), or the evolutionary history captured by a group of species (see Tucker *et al.*, 2017), is one of the phylo-diversity measuring metrics commonly used in the new field of community phylogenetics. Net relatedness index (NRI), nearest taxon index (NTI) and evolutionary distinctness (ED) are the other commonly used metrics in quantifying phylogenetics composition. Both NRI and NTI are used to quantify the phylogenetic relatedness among coexisting species in communities (e.g., Webb, 2000; Muscarella *et al.*, 2014; García-Navas, 2019), and ED is used to quantify whether communities are composed of distinct species (Tucker *et al.*, 2017). Better phylogenetic hypotheses have also become available for many groups of organisms, hence, studies in community ecology can then best be informed by knowledge of the evolutionary relationships among coexisting species.

The second part of this research interrogated community phylogenetics of the vegetation of Kenya assemblages. I hypothesized a relatively higher Faith's PD score for Zanzibar-Inhambane than for Afromontane Archipelago and Somali-Masai phytochoria which are suggested to have evolved recently. Also, given that each of the three studied phytochoria systems here captures unique ecological constraints, then I continued to idealize that species co-occurring with each phytochorion are more likely to be phylogenetically clustered than expected by chance. Regarding Evolutionary distinctness (ED), Zanzibar-Inhambane lineages are hypothesized to yield a higher ED, while Afromontane Archipelago and Somali-Masai phytochoria systems, which are believed to be assembled recently, are expected to yield much lower ED values.

5.2 Materials and Methods

The phylogenetic tree used in the study covers the major phytochoria (see White, 1983) in subsaharan Africa, and samples all the major lineages of the prominent vegetation divisions of Kenya (Lind and Morrison, 1974; Beentje, 1994). Sequence data is composed of the two plant DNA barcoding regions (*rbcLa* and *matK* genes) (CBOL Plant Working Group, 2009), and these are largely from a taxon pool of woody plants. Sequence source material was leaf tissue, obtained either from freshly collected specimens and dried rapidly using silica gel, or from recently collected herbarium specimens that were sourced from the East African herbarium, in Nairobi, Kenya. The study, additionally, incorporated into the phylogeny already existing sequences, including those of the Maurin *et al.* (2014) study that focussed on the savanna fire and the origins of the 'underground forests' of Africa, and sequences mined from GenBank (accessed in March 2019). Details of voucher specimen associated with the phylogenetic tree are listed in Appendix 5, and the sequence data will be submitted to GenBank, while details of the

Maurin *et al.* (2014) sequences are available online in the Barcode of Life Data Systems (BOLD; www.boldsystems.org), whereas GenBank sequences are also available online (<https://www.ncbi.nlm.nih.gov/genbank/>).

5.2.1 DNA extraction, amplification, and sequencing

DNA extraction and amplification was carried out in the Department of Biological Science, University of Cape Town. A modified Cetyltrimethylammonium Bromide (CTAB) protocol was used to extract total genomic DNA (Gawel and Jarret, 1991) from about 50 mg of dried plant material was used for every sample. The plant tissue was placed into 1.5 ml microcentrifuge eppendorf tubes and ground into fine powder using a Retsch MM400 mixer mill (Retsch GmbH, Haan, Germany). The samples were then set at a shaking frequency of 30 Hz for 20 minutes. The total genomic DNA extraction protocol included several steps. First, 3× CTAB extraction buffer was preheated in a water bath at 65 °C, and 0.3% 2-β-mercaptoethanol added immediately before use. To each of the 50 mg ground plant samples was added 700 µl extraction buffer with 0.3% 2-β-mercaptoethanol was added before homogenized with a vortex mixer. The samples were then incubated in a water bath at 60–65 °C for an hour. An equal volume of chloroform:isoamyl alcohol (24:1 v/v) —700 µl— was added and the composites mixed slightly by inversion before being centrifuged at 13,000 rpm for 15 minutes at room temperature. The upper aqueous phase, which contains the DNA, of each sample was carefully transferred into a new 1.5-ml eppendorf tube using a pipette. Samples for which their upper aqueous phase was not clear were centrifuged for more time. To each volume of the transferred aqueous phase (approximately 500 µl per sample), half of its volume (250 µl) of 6M NaCl was added and the mixed well. A 50 µl volume of 3M potassium acetate, representing 1/10 of the volume aqueous phase, was added and mixed

with 500 µl ice cold 100% isopropyl alcohol (approximately two thirds the volume of the aqueous phase). The mixture was inverted gently to precipitate DNA until the formation of DNA threads. Samples were then incubated at -20 °C for at least 30 minutes, and thereafter Centrifuged at 13,000 rpm for 5 minutes to coagulate the DNA pellets. The supernatant in each sample was discarded, with great caution not to lose augmented DNA pellets. The tubes containing the recovered DNA pellet were inverted on tissue paper (left for at least 30 minutes in open air) to drain off the remaining supernatant. The DNA pellets were washed with 500 µl of 70% ethanol—inverted once to dissolve residual salts and to increase purity of the DNA— and then were centrifuged at 13,000 rpm for 5 minutes. The 70% alcohol remaining in the tubes was discarded, tubes inverted on a tissue paper and the ethanol allowed to drain at room temperature for 15 minutes. The pellets of DNA pellets re-suspended with 1× TE buffer, each in 50 µl volume. The quality of the extracted total DNA was evaluated by electrophoresis for all samples on 0.8% agarose gel stained with ethidium bromide (1 µg/ml). The re-suspended DNA samples (working stocks of DNA) were stored at -20 °C.

Polymerase chain reaction (PCR) was used for amplification of DNA segments in this study. Amplification reactions of both the genes (matK and rbcL) were carried out with a 30 µl reaction mix containing; 1.2 µl DNA, 0.9 µl oligonucleotide primer (100 ng/µl) — forward and reverse, 1.2 µl of 10 mM dNTPs, 1.2 µl of 2 mM MgCl₂, 1.0 µl of 0.001% BSA, 1.0 µl DMSO solvent, 3.0 µl Taq Buffer, 0.3 µl KAPA Taq DNA polymerase and 19.3 µl MilliQ water. The PCR reactions for genes commenced with 2 minutes heating at 94°C, followed by 30 cycles consisting of 94°C denaturation for 1 minute, primer annealing at 48°C for 1 minute, 2 minutes of extension at 72°C, and a final extension at 72°C for 4 minutes. DNA barcoding primers designed by Kim J.

(unpublished) were used to sequence matK, whereas rbcL primers were adopted from the van der Bank M. South African Barcoding group (unpublished) — Table 5.1.

Table 5.1 List of DNA barcoding primers used for the study

Primer Name	Sequence 5' - 3'	Sequence Length
MatK- 1RKIM- (forward)	ACCCAGTCCATCTGGAAATCTTGGTTC	27
MatK- 3FKIM-r (reverse)	CGTACAGTACTTTTGTGTTTACGAG	25
rbcLa-F	ATGTCACCACAAACAGAGACTAAAGC	26
rbcLa-R	GTAAAATCAAGTCCACCRCG	20

Following completion of the cycling reaction, 2 µl of a loading dye (bromophenol blue) was added to 10 µl of each reaction product and separated by 2% agarose gel electrophoresis stained with 1 µg/ml ethidium bromide. The PCR products obtained were shipped to the MacroGen sequencing facilities (MacroGen, Amsterdam, Netherlands) for purification and sequencing using the respective amplification primers.

5.2.2 Sequence editing, alignment, and assembly

Forward and reverse sequences of each study taxon per marker were coupled into bidirectional contigs in the ChromasPro v.2.1.5 software and, inspected and edited for ambiguous bases. Each marker contig was sequentially added to form one data unit then aligned using the ClustalW multiple alignment tool in MAFFT v.7 (Kuraku *et al.*, 2013; Katoh and Standley, 2019). The alignments were further adjusted manually in the software BioEdit v.7.2.6 (Hall, 1999) to conform to a finer census pattern. The final alignments were converted to nexus format and data sets for the two sequence markers concatenated in the Sequence Matrix software (<http://www.ggvaidya.com/taxondna/>) into a two-gene matrix.

5.2.3 Phylogenetic reconstruction

Phylogeny of the study was created using Maximum Likelihood (ML) methods as implemented in RAxML software version 7.4.2 (Stamatakis *et al.*, 2006) in the CIPRES Science Gateway (Miller *et al.*, 2010). Topological constraints for families and genera in the phylogeny tree assumed the APG III backbone from Phylomatic v.3 (Webb and Donoghue, 2005), and the phylogeny rooted using two species of fern: *Pellaea longipilosa* and *Cheilanthes viridis*. Bayesian Markov chain Monte Carlo (MCMC) approach implemented in BEAST v.1.4.8 (Drummond and Rambaut, 2007) was then used to calibrate the phylogeny branch lengths in millions of years, keeping the tree topology fixed. Nucleotide substitution rates in the phylogeny for both genes was modelled using a GTR+I model with gamma rate heterogeneity and lewis correction, which was selected using the jModel Test 2.1.4. (Posada, 2008) as the best the best-fit nucleotide substitution model out of 88 possible models under the Akaike Information Criterion (AIC). Support values for the phylogeny were obtained via the rapid bootstrapping algorithm as implemented in RAxML 7.4.2 (Stamatakis, 2006) by examining 1000 pseudoreplicates under the same parameters as for the heuristic ML analyses. Evaluation of fossil calibration points for the phylogeny was carried out following a specimen-based approach by assessing paleontological data by Parham *et al.* (2012), and using fossil calibrations presented in the review of Magallón *et al.* (2015). As such, 19 of the Magallón *et al.* (2015) fossil-derived calibrations (Table 5.2) whose taxa were represented in the current study's samples, were used as calibration points in this study's molecular dating analysis. Fossils in the analysis were placed at both early and recently diversified lineages within the phylogeny. Due to the large size of the dataset, the study applied the penalised likelihood algorithm as implemented in treePL (Smith and O'Meara, 2012), which utilises hard minimum and maximum age constraints. Maximum age constraints for each fossil in the phylogeny correspond to the 95.0% upper boundary of the computed log normal

distribution, in which the offset equals the age of the fossil calibration point, the mean is set at 1.0 and the standard deviation at 1.0.

Table 5.2 Fossil-derived calibrations adopted from estimates of Magallón *et al.* (2015). CG = Crown group, SG = Stem group; age in Ma – Megannum

Lineage	Fossil	Reference	Offset age	Max.age	Node
Magnoliales	<i>Endressinia brasiliana</i>	Mohr and Bernardes-de-Oliveira (2004); Doyle and Endress (2010)	108.0	139.5	CG
Lauraceae	<i>Potomacanthus lobatus</i>	Crane <i>et al.</i> (1993); von Balthazar <i>et al.</i> (2007)	104.0	133.5	SG
Ericales	<i>Pentapetalum trifasciculandricus</i>	Martínez-Millán <i>et al.</i> (2009)	89.3	120.8	CG
Brassicales	<i>Dressiantha bicarpelata</i>	Gandolfo <i>et al.</i> (1998a)	89.3	120.8	SG
Clusiaceae	<i>Paleoclusia chevalieri</i>	Ruhfel <i>et al.</i> (2013)	89.3	120.8	SG
Annonaceae	<i>Futabanthus asamigawaensis</i>	Takahashi <i>et al.</i> (2008b)	87.5	119.0	SG
Combretaceae	<i>Esgueiria futabensis</i>	Takahashi <i>et al.</i> (1999)	87.5	119.0	SG
Myrtaceae	<i>Flower number 3</i>	Eklund (2003)	83.5	115.0	SG
Cunoniaceae	<i>Platydiscus peltatus</i>	Schönenberger <i>et al.</i> (2001a)	79.2	110.7	SG
Zingiberales	<i>Spirematospermum chandlerae</i>	Friis (1988)	77.0	108.5	SG
Santalales	<i>Triprojectacites-Aquilapollenites complex</i>	Herngreen <i>et al.</i> (1996)	70.6	102.1	SG
Lythraceae	<i>Decodon tiffneyi</i>	Estrada-Ruíz <i>et al.</i> (2009)	70.6	102.1	CG
Menispermaceae	<i>Teixeiraea lusitanica</i>	von Balthazar <i>et al.</i> (2005)	65.5	97.0	SG

Icacinaceae	<i>Icacinoxylon alternipunctata</i>	Wheeler <i>et al.</i> (1987); Knobloch and Mai (1986)	65.5	97.0	SG
Rutaceae	<i>Rutaspermum biornatum</i>	Knobloch and Mai (1986)	65.5	97.0	CG
Aquifoliaceae	<i>Ilex hercynica</i>	Martínez-Millán (2010)	61.7	93.2	SG
Myrtaceae	<i>Paleomyrtinaea princetonensis</i>	Crane <i>et al.</i> (1990); Pigg <i>et al.</i> (1993)	55.8	87.3	CG
Sapindaceae	<i>Aesculus hickeyi</i>	Hickey (1977); Manchester (2001)	55.8	87.3	CG
Malvaceae	<i>Malvaciphyllum macondicus</i>	Carvalho <i>et al.</i> (2011)	55.8	87.3	SG

5.2.4 Scoring of occurrences of the phylogeny taxon in the study phytochoria

Occurrences of the phylogeny's species in the phytochoria areas were scored as either present or absent. Species spatial distribution data in the phytochoria was obtained from the African Plant Database (<http://www.ville-ge.ch/musinfo/bd/cjb/africa/recherche.php>). The study used also expert opinion, including the phytochoria floristic checklists (Chapter 2), as another layer of validating the spatial occurrence entries of the scored species. The occurrence of taxon onto the phylogeny was mapped using the phylobase package (Hackathon *et al.* 2020).

5.2.5 Estimation of diversification ages to the phytochoria sample lineages

Divergence ages of the phytochoria respective lineages were extracted from the phylogeny tree that was created in section 5.2.3. The study extracted ages of lineages occurring exclusively within each phytochorion, and it used these ages as entries for estimating diversification times to

the phytochoria associated taxa. Biostrings function, in the Picante R-library (Kembel *et al.*, 2010), was used to extract from the phylogeny inferred lineages ages. Because the phytochoria investigated by this study are African, the study took a conservative assumption that they largely encompass African lineages. As such, the estimated evolutionary ages to corresponding phytochoria lineages are less likely to be biased.

5.2.6 Analyses of phylogenetic diversity indices for the study phytochoria

The study computed the phylogenetic diversity (PD) index for each phytochorion to determine how much evolutionary history is represented in it. To quantify evolutionary structure in the phytochoria, the metrics of mean phylogenetic distances (MPD) and mean nearest taxon phylogenetic distances (MNTD) were first calculated for each phytochorion. The MPD index represents the mean pairwise phylogenetic distance between all species within a category, whereas MNTD is the mean pairwise phylogenetic distance between closest relatives in a category (Webb, 2000). The standard effect size of MPD and MNTD results was calculated using a null model that maintained species richness within each category but shuffled species identities across categories (Webb 2000). The standard effect sizes results were multiplied by minus 1 to return the Net Relatedness Index (NRI) and Nearest Taxon Index (NTI), respectively. Positive NRI and NTI values indicate phylogenetic clustering, whereas negative values represent phylogenetic overdispersion (Webb, 2000). Average evolutionary distinctiveness (ED) of lineages within each phytochorion was calculated using the fair proportion metric of Isaac *et al.* (2007), which is the weighted sum of the branch lengths along the path from the root of an ultrametric tree to the tip, with weights determined as 1/number of tips sharing (ultimately subtending) that branch. Specifically, this metric is weighted by the unique evolutionary

information of each species (the length of the branch connecting it to the tree, or its “age”; (Redding and Mooers, 2006) and its sum across all species in a tree equals the tree’s total “phylogenetic diversity” (PD; Faith, 1992). Analyses of the phytochoria lineages phylogenetic diversity indices were executed in the Picante R-library (Kembel *et al.*, 2010).

5.3 Results

5.3.1 DNA barcode sequences

The study dataset includes a total of 2168 sequences (from 2168 species, 771 genera, 143 families and 51 orders), which comprised 1940 and 1883 for *rbcL* and *matK* sequences, respectively. Of these, 292 *rbcL* and 244 *matK* are newly sequenced by this study. The final two-gene alignment had 1846 base pairs (bp), including 552 bp for *rbcL* and 1294 bp for *matK*. Of the total number of taxa in the phylogeny, the Afromontane Archipelago, Somali-Masai and Zanzibar-Inhambane phytochoria are represented by 262, 430 and 716 terminals, respectively (Appendix 5). Among the taxa included in the phylogeny, 52 were restricted to the Afromontane Archipelago phytochorion, 80 to the Somali-Masai, and 257 to Zanzibar-Inhambane (Figure 5.2 and Appendix 5).

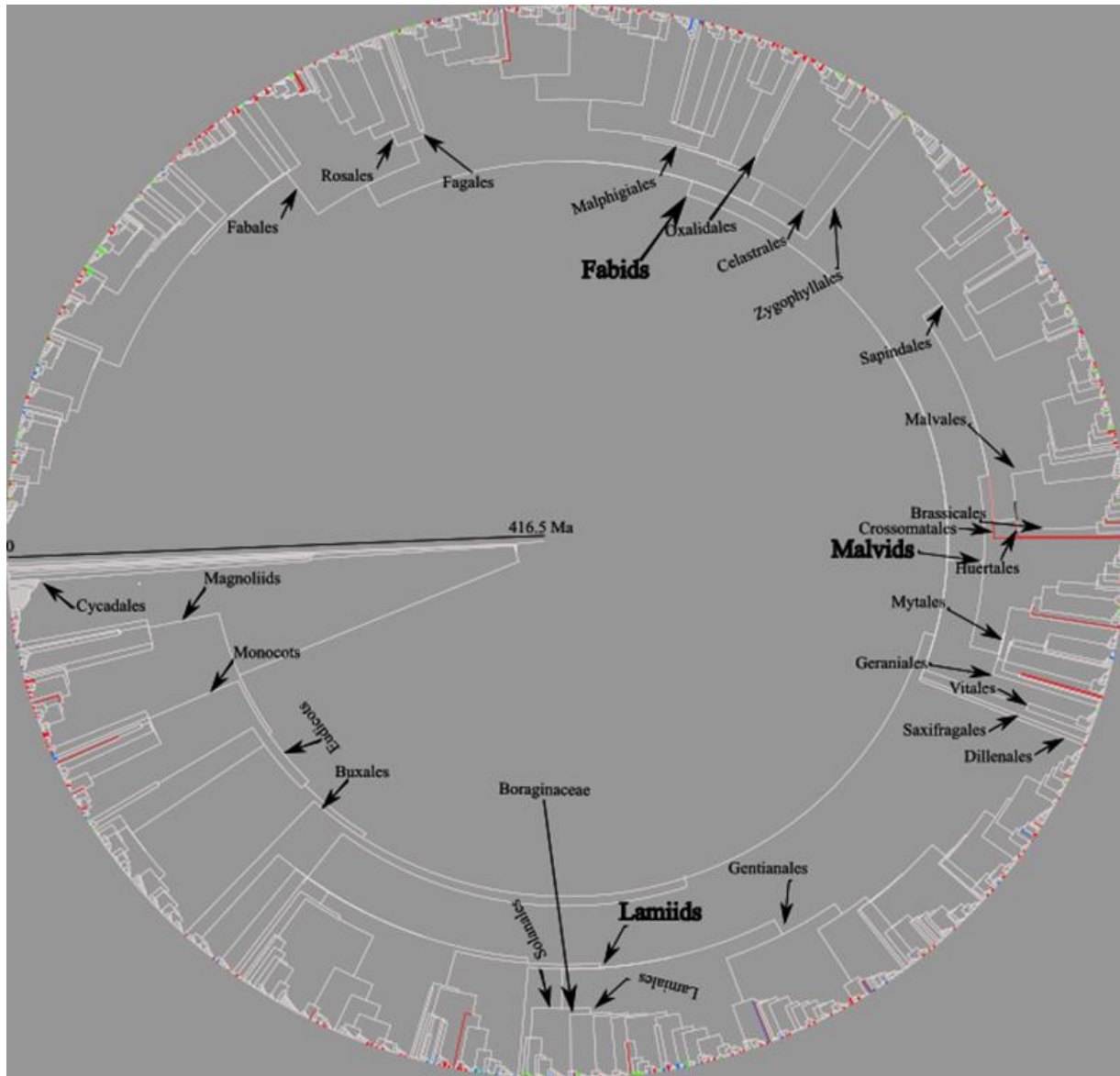


Figure 5.2. Chronogram of woody species of sub-Saharan Africa, indicating taxa distribution in the study phytochoria: Afromontane Archipelago lineages tips are shown in blue, Somali-Masai in green and Zanzibar-Inhambane in red.

5.3.2 Diversification patterns of lineages in the vegetation of Kenya

The estimated divergence times for the Somali-Masai lineages are within < 10 Ma, a range that is much younger than that of the Afromontane Archipelago and Zanzibar-Inhambane phytochoria (Figure 5.3). The Afromontane Archipelago and Zanzibar-Inhambane phytochoria, in addition to

containing taxa of younger divergences (i.e., < 10 Ma), have lineages older than the 10 Ma age range, but the Afromontane Archipelago only has two of these older lineages in the tree, namely, *Anthocleista grandiflora* Gilg and *Lasianthus kilimandscharicus* K. Schum. (Table 5.3).

Mean, median and mode of divergence ages for the Afromontane Archipelago phytochorion lineages is 2.32, 1.01 and 3.82 Ma, respectively. On the other hand, mean, median and mode of divergence ages for the Somali-Masai lineages is 0.53, 0.51 and 0.53 Ma, correspondingly, while of the Zanzibar-Inhambane phytochorion lineages is 0.49, 0.45 and 0.49 Ma, respectively.

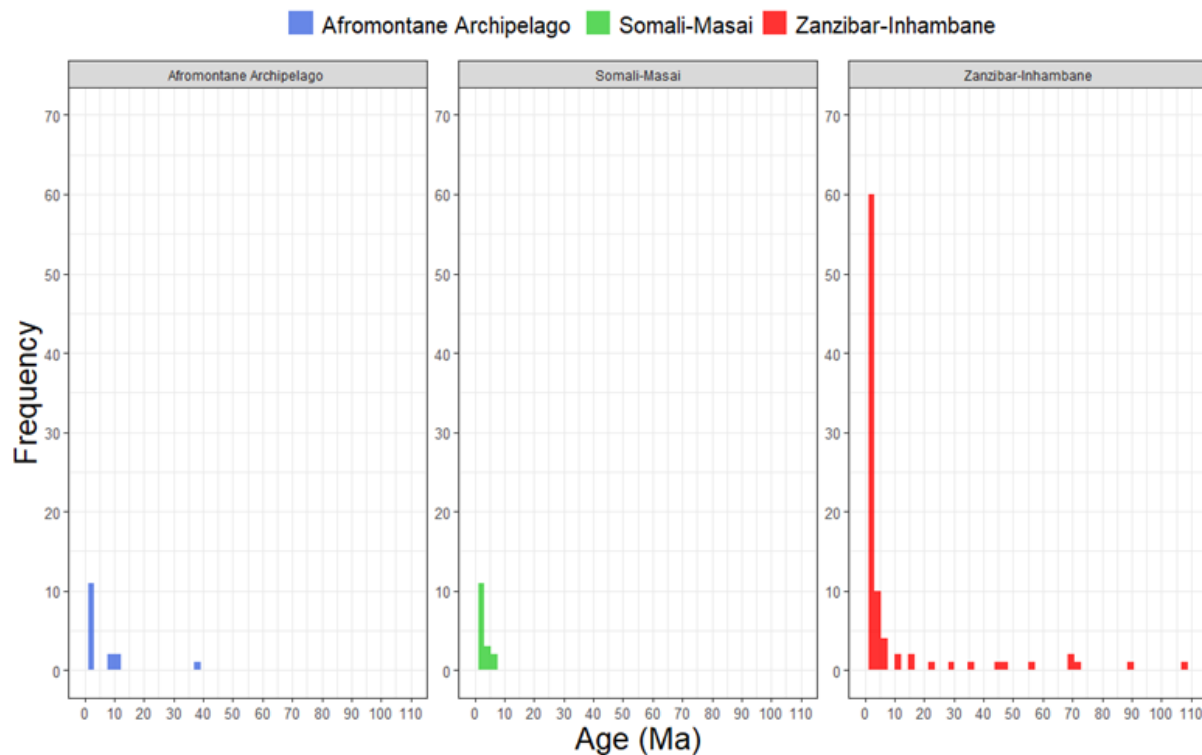


Figure 5.3. Age distribution histogram of lineages restricted in the African phytochoria predominantly represented in the vegetation of Kenya

Table 5.3 Afromontane Archipelago (A) and Zanzibar-Inhambane (Z-I) phytochoria lineages of older than 10 Ma Crown age (CA)

Order	Family	Taxon	Voucher	CA	A	Z-I
Malpighiales	Flacourtiaceae	<i>Aphloia theiformis</i> (Vahl) Benn.	OM3397 (JRAU)	108.57	0	1
Huerteales	Gerrardinaceae	<i>Gerrardina foliosa</i> Oliv.	Abbott9228 (BNRH)	89.44	0	1
Myrtales	Combretaceae	<i>Lumnitzera racemosa</i> Willd.	OM2478 (JRAU)	72.36	0	1
Myrtales	Lythraceae	<i>Sonneratia alba</i> Sm.	n.a.	70.60	0	1
Myrtales	Lythraceae	<i>Galpinia transvaalica</i> N.E. Br.	OM0319 (JRAU)	70.60	0	1
Poales	Flagellariaceae	<i>Flagellaria guineensis</i> Schumach.	OM2551	55.80	0	1
Asterales	Goodeniaceae	<i>Scaevola taccada</i> (Gaertn.) Roxb.	Sctac1392	47.60	0	1
Malpighiales	Euphorbiaceae	<i>Aristogeitonia monophylla</i> Airy Shaw	ArmonGeban	44.51	0	1
Gentianales	Gentianaceae	<i>Anthocleista grandiflora</i> Gilg	OM2671 (JRAU)	37.20	1	0
Gentianales	Apocynaceae	<i>Ancylobothrys petersiana</i> (Klotzsch) Pierre	OM3604	35.40	0	1
Lamiales	Acanthaceae	<i>Avicennia marina</i> (Forssk.) Vierh.	OM2475 (JRAU)	28.40	0	1
Magnoliales	Annonaceae	<i>Ophrypetalum odoratum</i> Diels	JKM876 (EAH)	21.99	0	1
Brassicales	Capparaceae	<i>Cladostemon kirkii</i> (Oliv.) Pax & Gilg	OM2389 (JRAU)	16.09	0	1
Rosales	Moraceae	<i>Antiaris toxicaria</i> ssp. <i>welwitschii</i> var. <i>usambarensis</i>	OM3977	16.07	0	1
Gentianales	Rubiaceae	<i>Chazaliella abrupta</i> (Hiern) E.M.A. Petit & Verdc.	JKM864 (EAH)	11.98	0	1
Gentianales	Rubiaceae	<i>Lasianthus kilimandscharicus</i> K. Schum.	Lakil119	11.55	1	0
Asparagales	Asphodelaceae	<i>Aloe tongaensis</i> Van Jaarsv.	OM3941	11.12	0	1

5.3.3 Phylogenetic diversity indices for the vegetation of Kenya

The three phytochoria showed differences in the investigated phylogenetic diversity indices.

Phylogenetic diversity (PD) was considerably higher for the Zanzibar-Inhambane phytochorion compared with the Somali-Masai and Afromontane Archipelago phytochoria (Table 5.4).

Moreover, while both NRI and NTI in the three phytochoria were positive, the NTI was insignificantly different in the three phytochoria ($p < 0.05$; Table 5.3), perhaps indicating the attribute randomness with tendency to a clustered pattern. The general ED measure among the phytochoria was similar, where the upper and lower quantiles overlapped (Figure 5.4). However, the Zanzibar-Inhambane phytochorion compared to Afromontane Archipelago and Somali-Masai phytochoria had a higher number of outlier ED scores (Figure 5.4).

Table 5.4. Phylogenetic structure indices for the three studied phytochoria

<i>Phytochoria</i>	<i>No. sp.</i>	<i>PD</i>	<i>NRI</i>	<i>p value</i>	<i>NTI</i>	<i>p value</i>
Afromontane Archipelago	261	8213.68	2.30	0.01	0.22	0.39
Somali-Masai	423	10899.75	2.54	0.01	0.53	0.30
Zanzibar-Inhambane	716	13276.68	3.26	0.01	1.44	0.09

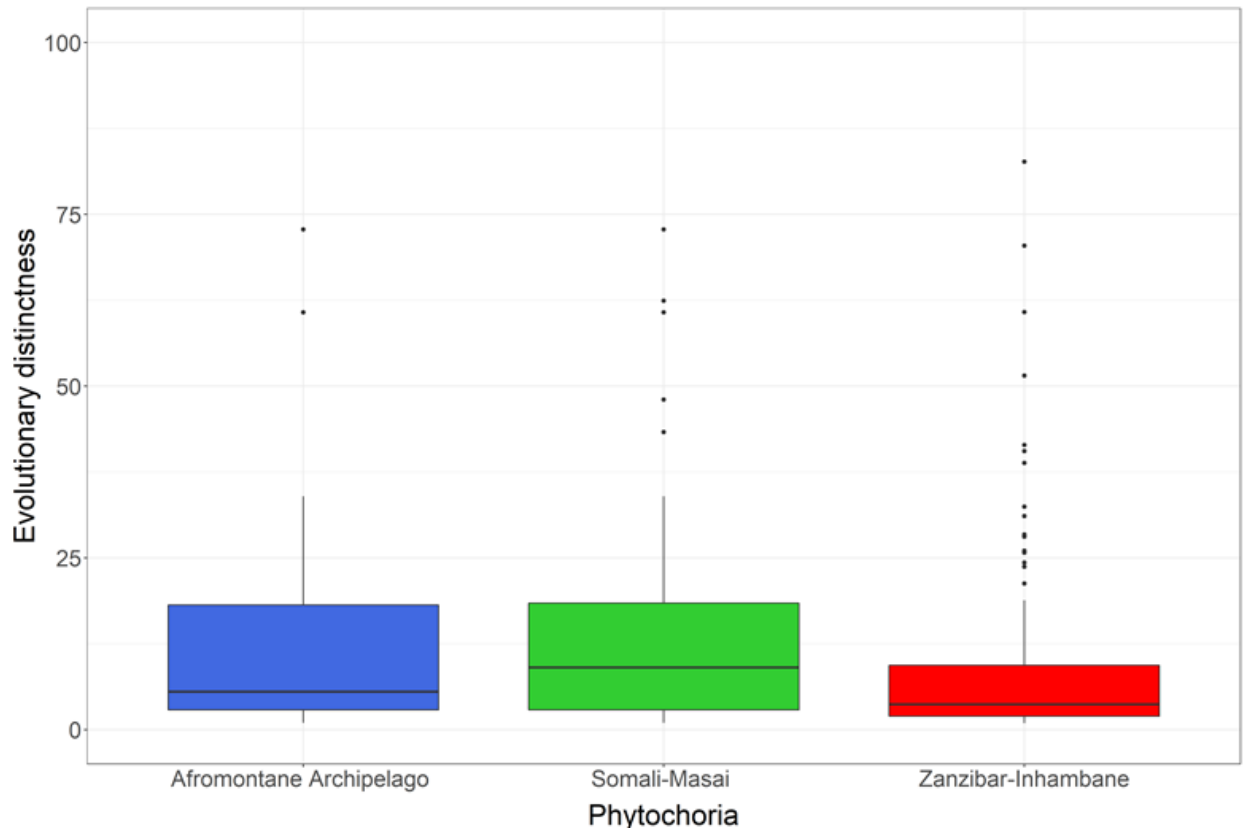


Figure 5.4 Evolutionary distinctiveness (ED) score of three phytochoria of Kenya. The box plots show the median (black line in the middle of the rectangle), the upper and lower quartiles, and the outlier values.

5.4 Discussion

The first objective of the study was to investigate the evolutionary history of the vegetation of Kenya using evolutionary divergence times between lineages of woody plants among three White's (1983) phytochoria predominant in Kenya that comprise Afromontane Archipelago, Somali-Masai and Zanzibar-Inhambane. The study utilized 2168 sequences, including sequences for 250 species that have not been previously included in any phylogenetic study (Appendix 5).

The study found a proportion of the Zanzibar-Inhambane lineages predate 10 Ma (Figure 5.3 and Table 5.2), and also within age below 10 million years (Figure 5.3). Result of lineages inferred

within >10 Ma support the study initial hypothesis and that the Zanzibar-Inhambane modern vegetation harbors relict lineages of the ancient Pan-African rainforest (Burgess *et al.*, 1998). The Zanzibar-Inhambane phytochorion was previously suggested to have provided a refugium for the Pan-African rainforest lineages which evolved millions of years ago, and have lost suitable habitat over time as the available lowland forests in eastern Africa have shrunk in extent — more so in the last 10 million years when Africa has had accelerated aridification episodes (Burgess *et al.*, 1998; Lovett and Wasser, 2008). Furthermore, the lineages associated with the Zanzibar-Inhambane had, on average, ages older than 10 Ma, thus, corroborates this idea. The result of the phytochorion lineages with age ranges < 10 Ma, on the other hand, perhaps supports the view that the late Neogene climatic oscillations that characterized the African continent (Lovett and Wasser 2008) might have triggered the emergence of new habitats (likely dry woodlands— see Beentje, 1994; Couvreur *et al.*, 2008; Lovett and Wasser, 2008) in the areas that are currently occupied by relatively younger (median age 0.45 Ma) lineages.

This study found the Afromontane Archipelago, like the Zanzibar-Inhambane phytochorion, included both older (predating 10 Ma) and younger (≤ 10 Ma) lineages, although the category of older lineages in the phylogeny was only represented by two species (*Anthocleista grandiflora* Gilg and *Lasianthus kilimandscharicus* K. Schum (see Table 5.2)). The lineages divergence estimates of ≤ 10 Ma coincides with when the Rift Valley formed, whose formation processes led to the raised landscapes in Africa that are presently occupied by afromontane and afroalpine vegetation (Sepulchre *et al.*, 2006; Mairal *et al.*, 2017). Moreover, the current result is corroborated by inferred inter-specific divergences between extant lineages of the Eastern Afromontane horned chameleons estimated to be less than 5 Mya (Ceccarell *et al.*, 2014). The

results of lineages within the Afromontane Archipelago division inferred to have evolved beyond 10 Ma, an age range that predates the Rift Valley formation processes, are curious. This is because are contrary to the common belief that Afromontane Archipelago division flora in Kenya is much young, and match the establishment of the East African Rift System dated within the Miocene (Sepulchre *et al.*, 2006; Senut *et al.*, 2009). However, there is also some data that indicate that many afromontane clades of plants (and animals) are indeed old, and many of them have their closest relatives in tropical lowland forests, with long-term climatic stability being a major factor generating and maintaining species diversity (see Brochmann *et al.*, 2021). Furthermore, the Eastern Arc block of mountains (including Taita hills in Kenya) which are high enough to support the Afromontane Archipelago division flora, uplifted at least 30 million years ago (Lovett, 1990; Lovett *et al.*, 2004), age that predates the Rift Valley formation processes. I use the above two scenarios to argue for the old lineages in the current study Afromontane Archipelago division data.

All the Somali-Masai lineages in the phylogeny are inferred to be younger than 10 Ma (mode age 0.51 Ma), a range that is within periods of aridification and the establishment of C4 grasslands that occurred in Africa (Sepulchre *et al.*, 2006; Cerling *et al.*, 2013). Furthermore, the inferred age range for the lineages of Somali-Masai plants is congruent with divergence times inferred for other East African savanna biota such as annual fishes (Dorn *et al.*, 2014). This study corroborates fossil evidence, perhaps adding credence to the savanna-origin hypothesis (Davies *et al.* 2020).

The second objective of this study was to examine community phylogenetics of the vegetation of Kenya. The study found (as had initially hypothesized) that the Zanzibar-Inhambane lineages had the highest PD value compared to the Afromontane Archipelago and Somali-Masai lineages. In terms of structuring, this study found that the phytochoria assemblages are more likely to be phylogenetically clustered than expected by chance (positive NRI and NTI values; Table 5.4). Such phylogenetic attraction may indicate the importance of habitat filtering (Webb *et al.* 2002) in the vegetation of Kenya, where sets of conditions present in the studied phytochoria areas such as rainfall, soil characteristics and, possibly, the legacy effects of the paleoclimates that shaped the assemblages favor closely related species with shared suite of traits to persist in the assemblages. NRI showed stronger clustering than NTI (significantly clustered NRI trend in the three phytochoria; see Table 5.4). I interpret these results to perhaps pointing out the more importance of especially the ancient diversifications (genera and families) in structuring the vegetation of Kenya (NRI reflects structure at deeper parts of the phylogeny; Webb *et al.* 2002).

Overdispersion of taxa across a phylogeny has been observed in natural communities (Kembel and Hubbell 2006; Horner-Devine and Bohannan 2006) and could indicate that negative interactions (e.g., competition) are important in community assembly (Mayfield and Levine 2010; Capitán *et al.*, 2015; D'Andrea *et al.*, 2019). Thus even where the phylogenetic signature suggests the importance of habitat filtering, local competition can also be occurring. Perhaps unsurprisingly, the phytochoria NTI mainly positive values (but not significant) trend in the current data could be indicative of a tendency of coexistence of distantly-related species which may have come as a result of exclusion of closely their related taxa through competitive

exclusion, especially within the last 10Ma during when this study found sufficient evidence for greater in situ speciation in all the studied phytochoria (Figure 5.3).

The study found similar evolutionary distinctness (ED) values for all the phytochoria. However, the Zanzibar-Inhambane phytochorion had a higher number of lineages with outlier ED scores. The ED metric provides an approximate measure to test the “museum hypothesis”, where high-ED species have relatively ancient origins and do not have many recent close relatives, whereas low-ED species are characterized by recent divergences and are clearly not relictual (Redding *et al.*, 2008). The validity to the usage of ED metric to test the museum hypothesis, however, could be blurred by lineage sampling when not comprehensively done. In this study, I used so far a large collection of African woody plants. I therefore argue that, the dataset is sufficient to allow the ED usage criterion in the approximation of vegetation assemblages’ evolutionary trends shown here. The lower and almost similar general ED measure trend in all the sampled phytochoria is peculiar, despite the Zanzibar-Inhambane lineages being hypothesized to yield a higher ED index than the Afromontane Archipelago and Somali-Masai phytochoria systems, as the latter two are believed to be assembled recently. I interpret the similar ED for the Zanzibar-Inhambane with Afromontane Archipelago and Somali-Masai phytochoria systems to be due to the taxa of younger divergences (i.e., < 10 Ma), indicating that the three phytochoria are a cradle for radiation since the Miocene. Nonetheless, the results of high number of lineages associated with Zanzibar-Inhambane phytochorion with extreme ED scores still provide evidence to further support the hypothesis that this phytochorion is a “museum” for ancient or relictual lineages (see Burgess *et al.*, 1998; Couvreur *et al.*, 2008), and also as this study predicted. In fact, for the vegetation of Kenya, comparatively, Zanzibar-Inhambane phytochorion has been previously

reported to have exceptional plant species richness and endemism (Burgess *et al.*, 1998; Burgess and Clarke, 2000; Ngumbau *et al.*, 2020), and the outstanding evolutionary distinctness shown for the phytochorion hereby incorporates yet another layer to the knowledge of diversity and structure of the vegetation of Kenya.

In conclusion, this study reconstructs a well sampled dated phylogeny, including over 200 taxa that were previously unstudied and focuses on the phytochoria divisions proposed by White (1983). The study has demonstrated that the Somali-Masai is much younger than the Afromontane Archipelago and Zanzibar-Inhambane phytochoria, with the latter being the oldest and containing relicts of the Pan-African rainforest, but has also provided a considerable evidence for greater *in situ* speciation in all the phytochoria, occurring largely within the last 10Ma. Based on the studied phylogenetic structure indices, the Zanzibar-Inhambane phytochorion deserves prioritization to conserve its unique diversity. More importantly, the study opens a first window into the evolutionary history and, phylogenetic diversity and structure for the whole of the vegetation of Kenya and tropical Africa.

CHAPTER SIX: SYNTHESIS AND CONCLUSION

6.1. Background, aim and objectives of the project

In the recent past there has been growing awareness that we are limited in our ability to fully explain patterns of diversity by just focusing on single measures, because biodiversity is a complex multifaceted concept that includes scales in space and time, and entities such as species, traits and evolutionary units. Throughout this thesis, I advanced the multiple dimensional approach by incorporation of creative questions, sampling designs and analyses with aim to unravel multiple dimensions of the flora of Kenya. Firstly, I used objective numerical methods on a data of collection of plant lists from many sites across Kenya, which reflects most of the vegetational variation and complexity for the flora of Kenya, to explore if the major phytochoria of African proposed by White (1983) in Kenya show obvious divergence in terms of floristics and climatic niches — objective 1 (chapter 2). Using the phytochoria as *a priori* units, I further advanced aspect of phylogenetics to scrutinize the vegetation of Kenya community phylogenetic dynamics (Objective 4 and Chapter 5). The study then shifted in scale, to evaluate a mosaic of *Combretum* and *Acacia* species dominated vegetation types in mesic areas in southeastern Kenya, within the Somali-Masai phytochorion — involving plot-level floristic data to test evidence for; 1) filtering of wood plants on the basis of soil properties in a tropical landscape (Objective 2 and Chapter 3), and 2) a trade-off between structural and chemical plant defense strategies in the infertile and fertile soils African savanna woody plants (Objective 3 and Chapter 4).

6.2. Key findings, expectations and interpretations

(a) Assessment the White's phytochoria dominant in Kenya (objective 1 (chapter 2))

Numerical methods on a data of collection of species lists from many sites across Kenya did not deliver similar clusters to the phytochoria delimited for the vegetation of Kenya by White, although the phytochoria concept is defined to typically represent geographical areas with largely shared plant species distributions (and centres of plant endemism) that contrast with other phytochoria (White, 1983; Linder *et al.*, 2005). Landscapes of Kenya (and perhaps of the whole of Africa) are highly heterogeneous — with vegetation types greatly partitioned by both precipitation and temperature gradients that can rapidly change within a short distance, especially in response to elevation gradients. It is perhaps no surprise that similar clusters to the phytochoria delimited by White in the vegetation of Kenya should have failed to be delivered by the current analysis. The application of species lists data and numerical methods is however proved to a promising approach in detecting nuances of floristic, elevational, climatic and topographic variability at finer scales in the White's system of regionalisation of the Afrotropics phytochoria areas.

(b) Filtering of wood plants on the basis of soil properties in a tropical landscape (Chapter 3; Kimeu *et al.*, 2020)

Throughout the tropical region, at landscape, plant species distribution and vegetation boundaries are mediated by differences in species responses to a myriad of factors (Hoffmann *et al.* 2004, 2005, 2012; Sankaran *et al.* 2005), including fire and herbivory regimes (top-down forces, Bond 2008; Sankaran *et al.* 2008) and soil resource availability (Richards, 1993; Jacobs, 2004; Barros *et al.* 2017). Broad-leaved non-spiny *Combretum* – *Terminalia* and narrow-leaved spiny *Acacia* – *Commiphora* savanna vegetation mosaic, investigated in the current study, separated in both soil statuses and floristics. I undertook the study on woodland remnants mostly found on private

smallholding farmlands, and in a landscape that has experienced human activity for millennia (Marchant *et al.*, 2018). Fire management of the vegetation is thus uncommon and hence, the role of fire and mega-herbivores in shaping the current vegetation assemblage may be atypical. The concept that soil boundaries can represent areas of floristic turnover has emanated from my work.

(c) African savanna woody plants defense strategies (Objective 3 and Chapter 4)

Results from the linear discriminant analyses showed that structural defences (SLA and leaf nitrogen) contributed the most to the first axis, while carbon and condensed tannins (chemical defences) contributed the most to the second axis, suggesting that there is no trade-off between the two. Had there been evidence for a strong trade-off between the two defence types (see Scholes and Walker 2004), they would be expected to separate along a single axis. Further, both carbon and condensed tannins did not show a clear separation between leaf samples of fine-leaved spinescent *Acacia* species and broad-leaved non-spinescent *Combretaceae* species, as well as high correlation coefficients with a significant index. The concept that chemical and structural defences can augment each other and do not necessarily trade-off has thus emanated from this work. This pattern is curious given that a previous work by Tomlinson *et al.* (2016) tested the chemical and structural defences trade-off hypothesis in African savanna wood plants and found a support — although also there is emerging data that show a section of spiny woody species growing in nutrient-rich soils in African savanna landscapes could invest in chemical anti-herbivore defenses equally to non-spiny broad-leaved plants growing in nutrient-poor soils in African savannas (see Wigley *et al.*, 2018, 2019). The current data is perhaps highlighting the suggestion by Agrawal (2011) that a simple trade-off model is unlikely as multiple defence traits

in concert would be more effective, i.e., a diverse suite of herbivores with different responses to specific chemicals or defences may attack a particular species.

(d) Advancement of our knowledge on the vegetation of Kenya through aspects of phylogenetics
Here, using a comprehensive phylogeny of woody trees and shrubs of subsaharan Africa, and samples of all the major lineages of the prominent vegetation divisions of Kenya (Lind and Morrison, 1974; Beentje, 1994), I enhance our knowledge for the vegetation of Kenya (objective 4), a knowledge that is far much critical to the conservation decision-making process. I first show that in the vegetation of Kenya Somali-Masai is much younger than the Afromontane Archipelago and Zanzibar-Inhambane phytochoria, with the latter being the oldest and containing relicts of the Pan-African rainforest, but has also provided a considerable evidence for greater *in situ* speciation in all the phytochoria, occurring largely within the last 10Ma. Based on the phylogenetic structure indices in the data, perhaps the Zanzibar-Inhambane phytochorion deserves prioritization to conserve due to its more unique diversity.

6.3. Conclusion

Understanding the multifaceted patterns of biodiversity is an overwhelming task. A recent paradigm shift in the community assembly research to a model that integrates multiple lines of evidence, as measures of biodiversity over those relying on single measures, should be regarded as novel because it helps move us further towards a holistic understanding of biodiversity. Nonetheless, for the usage of multiple dimensional approach to remain relevant in the future in the community assembly research, it is important that researchers carefully consider creative

study questions, sampling designs and analyses, and also the inferences that can be drawn from the study results, and this aspect is demonstrated throughout this thesis.

References

- Abràmoff, M. D., Magalhães, P. J. and Ram, S. J. (2004) Image processing with ImageJ. *Biophotonics International* 11: 36–42.
- Ackerly, D. D. (2003). Community assembly, niche conservatism and adaptive evolution in changing environments. *International Journal of Plant Sciences* 164: S165– S184.
- Aerts, R., Thijs, K. W., Lehouck, V., Beentje, H., Bytebier, B., Matthysen, E., Gulinck, H., Lens, L. and Muys, B. (2011) Woody plant communities of isolated Afromontane cloud forests in Taita Hills, Kenya. *Plant Ecology* 212: 639–649.
- Agnew, A. D. Q. (2013) Upland Kenya Wild Flowers and Ferns. A flora of the flowers, ferns, grasses and sedges of highland Kenya. (3rd completely revised Edn). EANHNS, Nairobi.
- Agrawal, A. A. (2011) Current trends in the evolutionary ecology of plant defence. *Functional Ecology* 25: 420 – 432.
- Agrawal, A. A. and Fishbein, M. (2006) Plant defense syndromes. *Ecology* 87: 132 – 149.
- Axelrod, D. I. and Raven, P. H. (1978) Late cretaceous and tertiary vegetation history of Africa. In *Biogeography and Ecology of Southern Africa* (M.J.A. Werger, ed.) pp. 77–130. The Hague: W. Junk.
- Baker, T. R., Pennington, R. T., Dexter, K. G., Fine, P., V., Fortune-Hopkins, H, Honorio, E. N., Huamantupa-Chuquimaco, I., Klitgård, B. B., Lewis, G. P., de Lima, H. C., Ashton, P., Baraloto, C., Davies, S., Donoghue, M. J., Kaye, M., Kress, W. J., Lehmann, C. E. R., Monteagudo, A., Phillips, O. L. and Rodolfo Vasquez, R. (2017). Maximising Synergy among Tropical Plant Systematists, Ecologists, and Evolutionary Biologists. *Trends in Ecology and Evolution* 32(4): 258–267.
- Bamford, M. K. (2011) Late Pliocene woody vegetation of Area 41, Koobi Fora, East Turkana Basin, Kenya. *Review of Palaeobotany and Palynology* 164: 191–210.
- Barros M.F., X Pinho, B., Leão, T. and Tabarelli, M (2017) Soil attributes structure plant assemblages across an Atlantic forest mosaic. *Journal of plant ecology*, 11(4), 613–622.
- Beckett, H., Staver, A. C., Charles-Dominique, T. and Bond, W. J. (2022) Pathways of savannization in a mesic African savanna–forest mosaic following an extreme fire. *Journal of Ecology*. <https://doi.org/10.1111/1365-2745.13851>.
- Beentje, H. J. (1988) An ecological and floristical study of the forests of the Taita Hills, Kenya. *Utafiti* 10(1): 23–66.
- Beentje, H. J. (1994) Kenya Trees Shrubs and Lianas. National Museums of Kenya, Nairobi, Kenya.
- Beerling, D. J. and Osborne, C. P. (2006) The origin of the savanna biome. *Global Change Biology* 12: 2023–2031.

- Bentley, J., Verboom, G. A. and Bergh, N. G. (2014) Erosive processes after tectonic uplift stimulate vicariant and adaptive speciation: evolution in an Afrotemperate-endemic paper daisy genus. *BMC Evolutionary Biology* 14: 27.
- Bobe, R. (2006) The evolution of arid ecosystems in eastern. *Africa Journal of Arid Environments* 66: 564–584.
- Bond, W.J. (2008) What limits trees in C4 grasslands and savannas? *Annual Review*, 39, 641–659.
- Bond, W. J. (2019). Open ecosystems: Ecology and evolution beyond the forest edge Oxford university press, Great Clarendon street, Oxford UK.
- Bond, W. J., Smythe, K. and Balfour, D. A. (2001) *Acacia* species turnover in space and time in an African savanna. *Journal of Biogeography* 28: 117–128.
- Boru, B. H., Wang, S., Njogu, A. W., Ochola, A. C., Xin H., Zhou, Y. and Wang, Q. (2019) The spatial patterns of taxonomic and phylogenetic diversity of seed plants with the climate factors across Ethiopia and Eritrea. *Research Square*.
- Bray, J. R. and Curtis, J. T. (1957) An ordination of the upland forest communities of Southern Wisconsin. *Ecological Monograph* 27: 325–49.
- Bridson, D. and Forman, L. (1992) The Herbarium Handbook. Revised edition. Royal Botanic Gardens, Kew.
- Brink, A. B., Bodart, C., Buchanan, G., Clerici, M., Donnay, F., Eshiamwata, G., Gregoire, J.-M., Kirui, B. K., Lupi, A., Palumbo, I. and Pekel, J.-F. (2013). Vegetation. Kenya: A Natural Outlook - Geo-Environmental Resources and Hazards, 133–163.
- Brochmann, C., Gizaw, A., Chala, D., Kandziora, M., Eilu, G., Popp, M., Pirie, M. D. and Gehrke, B. (2021). History and evolution of the afroalpine flora: in the footsteps of Olov Hedberg. *Alpine Botany* doi: 10.1007/s00035-021-00256-9
- Burgess, N. D. and Clarke, G. P. (2000) Coastal Forests of Eastern Africa Gland: IUCN.
- Burgess, N. D., Clarke, G. P. and Rodgers, W. A. (1998) Coastal forests of eastern Africa: status, endemism patterns and their potential causes. *Biological Journal of the Linnean Society* 64: 337.
- Bytebier, B. (2001) Taita hills biodiversity project report. National Museums of Kenya Nairobi.
- Bytebier, B. and Bussman, R.W. (2000) The vegetation of Mount Nyiru (Samburu District, Kenya): A checklist and syntaxonomical survey. *Journal of East African Natural History* 89(1): 45–71.
- Capitán, J. A., Cuenda, S. and Alonso D. (2015) How similar can co-occurring species be in the presence of competition and ecological drift? *Journal of the Royal Society Interface* 12: 20150604

- Carvalho, M., Herrera, F., Jaramillo, C., Wing, S. and Callejas, R. (2011) Paleocene Malvaceae from northern South America and their biogeographical implications. *American Journal of Botany* 98: 1337–1355.
- CBOL Plant Working Group (2009) DNA barcoding in land plants. *Proceedings of the National Academy of Science of the United States of America* 106: 12794–12797.
- Ceccarelli, F. S., Menegon, M., Tolley, K. A., Tilbury, C. R., Gower, D. J., Laserna, M. T., Kasahun, R., Rodriguez-Prieto, A., Hagman, R. and Loader, S. P. (2014) Evolutionary relationships, species delimitation and biogeography of Eastern Afrotropical horned chameleons (Chamaeleonidae: Trioceros). *Molecular Phylogenetics and Evolution* 80: 125–136.
- Cerling, T. E., Harris, J. M., MacFadden, B. J., Leakey, M. G., Quade, J., Eisenmann, V. and Ehleringer, J. R. (1997) Global vegetation change through the Miocene/Pliocene boundary. *Nature* 389: 153–158.
- Cerling, T. E., Manthi F. K., Mbua, E. N., Leakey, L. N., Leakey, M. G., Leakey, R. E., Brown, F. H., Grine, F. E., Hart, J. A., Kaleme, P., Roche, H., Uno, K. T. and Wood, B. A. (2013) Stable isotope-based diet reconstructions of Turkana Basin hominins. *Proceedings of the National Academy of Sciences of the United States of America* 110: 10501–10506.
- Clarke, K. R. (1993) Non-parametric multivariate analyses of changes in community structure. *Australian Journal of Ecology* 18: 117–43.
- Clarke, K. R. and Warwick, R. M. (2001) Change in Marine Communities: An Approach to Statistical Analysis and Interpretation. Primer-E Ltd: Plymouth, UK.
- Coetsee, C., Bond, W. J. and Wigley, B. J. (2015) Forest and fynbos are alternative states on the same nutrient poor geological substrate. *South African Journal of Botany* 101: 57–65.
- Couvreur, T. L. P., Chatrou, L. W., Marc, S. M., Sosef, M. S. M. and Richardson, J. E. (2008). Molecular phylogenetics reveal multiple tertiary vicariance origins of the African rain forest trees. *BMC Biology* 6(54) 1–10.
- Couvreur, T. L. P., Dauby, G., Blach-Overgaard, A., Deblauwe, V., Dessein, S., Droissart, V., Hardy O. J., Haris, D. J., Janssens, S. B., Lay, A. C., Machinder, B. A., Sonké, B., Sosef, M. S. M., Stèvert, T., Svenning, J.-C., Wieringa, J. J., Faya, A., Missoup, A. D, Tolley, K. A., Nicolas, V., Ntie, S., Fluteau, F., Robin, C., Guillocheau, F., Barboni, D. and Sepulchre, P. (2021) Tectonic, climate and the diversification of the tropical African terrestrial flora and fauna. *Biological Reviews* 96: 16–51.
- Crane, P., Manchester, S. and Dilcher, D. (1990) A preliminary survey of fossil leaves and well-preserved reproductive structures from the Sentinel Butte Formation (Paleocene) near Almont, North Dakota. *Field Geol* NS 20: 1–63.

- Crane, P., Pedersen, K., Friis, E. and Drinnan, A. (1993) Early Cretaceous (early to middle Albian) platanoid inflorescences associated with Sapindopsis leaves from the Potomac Group of eastern North America. *Systematic Botany* 18: 328–344.
- D’Andrea, R., Rio, M. and Ostling A. M. (2019) Generalizing clusters of similar species as a signature of coexistence under competition PLoS computational Biology 15 (1): e1006688.
- Dantas V., de L., Batalha, M.A. and Pausas, J.G. (2013) Fire drives functional thresholds on the savanna-forest transition. *Ecology*, 94, 2454–2463.
- Davies, T. J., Daru, B. H., Bezeng, B. S., Charles-Dominique, T., Hempson, G. P., Kabongo, R. M., Maurin, O., Muasya, A. M., van der Bank, M. and Bond, W.J. (2020) Savanna tree evolutionary ages inform the reconstruction of the paleoenvironment of our hominin ancestors. *Scientific Reports* 10: 12430.
- Dimitrov, D., Nogues-Bravo, D. and Scharff, N. (2012) Why do tropical mountains support exceptionally high biodiversity? The Eastern Arc Mountains and the drivers of Saintpaulia diversity. *PLoS ONE* 7: e48908.
- Donoghue, M. J. (2008). A phylogenetic perspective on the distribution of plant diversity. *Proceedings of the National Academy of Sciences of the United States of America* 105: 11549– 11555.
- Dorn, A., Musilová, Z., Platzer, M., Reichwald, K. and Cellerino, A. (2014) *BMC Evolutionary Biology* 14: 210.
- Doyle, J. A. and Endress, P. K. (2010) Integrating Early Cretaceous fossils into the phylogeny of living angiosperms: Magnoliidae and eudicots. *Journal of Systematics and Evolution* 48: 1–35.
- Drummond A. J. and Rambaut A. (2007) BEAST: Bayesian evolutionary analysis by sampling trees. *BMC Evolutionary Biology* 7: 214.
- Edwards, D. C. (1940) A vegetation map of Kenya with particular reference to grassland types. *Journal of Ecology* 28: 377–385.
- Ehleringer, J. and Mooney, H. (1978) Leaf hairs: effects on physiological activity and adaptive value to a desert shrub. *Oecologia* 37:183–200.
- Ehrlich, P. R. and Raven, P. H. (1964) Butterflies and plants: a study in coevolution. *Evolution* 18: 586–608.
- Eklund, H. (2003) First Cretaceous flowers from Antarctica. *Review of Palaeobotany and Palynology* 127: 187–217.
- Elliott, T. L. and Davies, T. J. (2019) Phylogenetic attributes, conservation status and geographical origin of species gained and lost over 50 years in a UNESCO Biosphere Reserve. *Biodiversity and Conservation* 28: 711–728.

- Emerson, B. C. and Gillespie, R. G. (2008). Phylogenetic analysis of community assembly and structure over space and time. *Trends in Ecology and Evolution* 23: 619– 630.
- Estrada-Ruiz, E., Calvillo-Canadell, L. and Cevallos-Ferriz, S. R. S. (2009) Upper Cretaceous aquatic plants from Northern Mexico. *Aquatic Botany* 90: 282–288.
- Faith, D. P. (1992) Conservation evaluation and phylogenetic diversity. *Biological Conservation* 61: 1–10.
- Fayolle, A., Swaine, M. D., Aleman, J., Azihou, A. F., Bauman, D., te Beest, M., Chidumayo, E. N., Cromsigt, J. P. G. M., Dessard, H., Finckh, M., Gonçalves, F. M. P., Gillet, J., Gorel, A., Hick, A., Holdo, R., Kirunda, B., Mahy, G., McNicol, I., Ryan, C. M., Revermann, R., Plumptre, A., Pritchard, R., Nieto-Quintano, P., Schmitt, C. B., Seghieri, J., Swemmer, A., Talila, H. and Woollen, E. (2019). A sharp floristic discontinuity revealed by the biogeographic regionalization of African savannas. *Journal of Biogeography* 46 (4): 54–465.
- Fischer, E., Rembold, K., Althof, A., Obholzer, J., Malombe, I., Mwachala, G. and Theisen, I. (2010) Annotated checklist of the vascular plants of Kakamega forest, Western province, Kenya. *Journal of East African Natural History* 99(2): 129–226.
- Fjeldsa, J. and Burgess, N. D. (1998) Faunal importance of the eastern Arc Mountains of Kenya and Tanzania. *Journal of East African Natural History* 87:37–58.
- Flora of Tropical East Africa (FTEA) (1952–) Authors Various. Royal Botanic Gardens, Kew and Balkema, Rotterdam.
- Ford, A. T., Goheen, J. R., Otieno, T. O., Bidner, L., Isbell, L. A., Palmer, T. M., Ward, D., Woodroffe, R. and Pringle, R. M. (2014) Large carnivores make savanna tree communities less thorny. *Science* 346: 346–349.
- Forest, F., Grenyer, R., Rouget, M., Davies, T. J., Cowling, RM, Faith, D. P., Balmford, A., Manning, J. C., Procheş, S., van der Bank, M., Reeves, G., Hedderson, T. A. J. and Savolainen, V. (2007) Preserving the evolutionary potential of floras in biodiversity hotspots. *Nature* 445: 757–760.
- Friis, E. (1988) *Spirematospermum chandlerae* sp. nov., an extinct species of Zingiberaceae from the North American Cretaceous. *Tertiary Research* 9: 7–12.
- Gachathi, F. N. M. (1996) Conservation priorities in the arid and semi-arid lands: the case of the hilltop forests of Kenya. In: van der Maesen L. J. G., van der Burgt X. M., van Medenbach de Rooy J. M. (eds) *The Biodiversity of African Plants*.
- Gachathi, F. N., Johansson, S. G. and Alakoski-Johansson, G. M. (1994) A check-list of indigenous trees and shrubs of Bura, Tana River district Kenya with Malakote, Orma and Somali names. *Journal of East African Natural History* 83: 117–141.

- Gandolfo, M., Nixon, K. and Crepet, W. (1998a) A new fossil flower from the Turonian of New Jersey: *Dressiantha bicarpellata* gen. et sp. nov. (Capparales). *American Journal of Botany* 85: 964–974.
- García-Navas, V. (2019) Phylogenetic and functional diversity of African muroid rodents at different spatial scales. *Organisms Diversity and Evolution* 19: 637–650.
- Gawel, N. J. and Jarret, R. L. (1991) A modified CTAB DNA extraction procedure for *Musa* and *Ipomoea*. *Plant Molecular Biology Reporter* 9(3): 262–266.
- Gillespie, R. (2004). Community assembly through adaptive radiation in Hawaiian spiders. *Science* 303: 356– 359.
- Girma, A., Fischer, E. and Dumbo, B. (2015) Vascular plant diversity and community structure of Nandi forests, western Kenya. *Journal of East African Natural History* 103(2): 125–152.
- Gowda, J. H. (1996) Spines of *Acacia tortilis*: what do they defend and how? *Oikos* 77: 279–284.
- Hackathon, R., Bolker, B., Butler, M., Cowan, P., de Vienne, D., Eddelbuettel, D., Holder, M., Jombart, T., Kembel, S., Michonneau, F., Orme, D., O'Meara, B., Paradis, E., Regetz, J. and Zwickl, D. (2020) phylobase: Base Package for Phylogenetic Structures and Comparative Data. <https://github.com/fmichonneau/phylobase>.
- Hagerman, A.E. (2002) The tannin handbook (<http://www.users.muohio.edu/hagermae>).
- Hall, T. A. (1999) BioEdit: A user-friendly biological sequence alignment editor and analysis program for Windows 95/98/NT. *Nucl. Acids Symp. Ser.* 41: 95–98.
- Hanley, M. E., Lamont, B. B., Fairbanks, M. M. and Rafferty, C. M. (2007) Plant structural traits and their role in anti-herbivore defense. *Perspectives in Plant Ecology, Evolution and Systematics* 8: 157–178.
- Hattas, D. and Julkunen-Tiitto, R. (2012) The quantification of condensed tannins in African savanna tree species. *Phytochemistry Letters* 5: 329–334.
- Hedberg, O. (1970) Evolution of the Afroalpine Flora. *Biotropica* 2(1): 16–23.
- Herlocker, D. (1979) Vegetation of southwestern Marsabit District, Kenya. Integrated Project on Arid Lands Technical Paper D-1. UNESCO, Nairobi.
- Herlocker, D. (1991) Range condition in Marsabit District. In H.J. Schwartz, S. Shaabani, & D. Walther (eds.), *Range Management Handbook of Kenya, Volume II, 1, Marsabit District*. Republic of Kenya, Ministry of Livestock Development, Nairobi.
- Herngreen, G. F. W., Kedves, M., Rovnina, L. V. and Smirnova, S. B. (1996) Chapter 29C. Cretaceous palynofloral provinces: a review. In: Jansonius J, McGregor DC, eds. *Palynology: Principles and Applications*. Salt Lake City, UT, USA: *American Association of Stratigraphic Palynologists Foundation* 1157–1188.

- Hickey, L. (1977) Stratigraphy and paleobotany of the Golden Valley Formation (Early Tertiary) of western North Dakota. *Geological Society of America Memoirs* 150: 1–181.
- Hijmans, R. J., Cameron, S. E., Parra, J. L., Jones, P. G. and Jarvis, A. (2005) Very high resolution interpolated climate surfaces for global land areas. *International journal of Climatology* 25: 1965–1978.
- Hoffmann W.A., Orthen, B. & Franco, AC (2004) Constraints to seedling success of savanna and forest trees across the savanna-forest boundary. *Oecologia* 140:252–260.
- Hoffmann, W.A., Franco, A.C., Moreira, M.Z. and Haridasan, M. (2005) Specific leaf area explains differences in leaf traits between congeneric savanna and forest trees. *Functional Ecology*, 19, 932–940.
- Hoffmann, W.A., Geiger, E.L., Gotsch, S.G. Rossatto, D.R., Silva, L.C.R., On Lee Lau, Haridasan, M. & Franco, A.C. (2012) Ecological thresholds at the savanna-forest boundary: how plant traits, resources and fire govern the distribution of tropical biomes. *Ecology Letters*, 15, 759–768.
- Horner-Devine, M. C. and Bohannan, B. J. M. (2006). Phylogenetic clustering and overdispersion in bacterial communities. *Ecology* 87(sp7): S100–S108.
- Isaac, N. J. B., Turvey, S.T., Collen, B., Waterman, C. and Baillie, J. E. M. (2007). Mammals on the EDGE: conservation priorities based on threat and phylogeny. *PLoS ONE* 2, e296.
- Jacobs, B. F. (2004) Palaeobotanical studies from tropical Africa: relevance to the evolution of forest, woodland and savannah biomes. *Philosophic Transactions of the Royal Society B*. 359: 1573–1583.
- Jacobs, B. F., Pan, A. D. and Scotese, C. R. (2010) A Review of the Cenozoic Vegetation History of Africa: In *Cenozoic Mammals of Africa*, Publisher: University of California Press Editors: Lars Werdelin, William Joseph Sander Edited by: Werger M. J. A. The Hague: W Junk bv Publishers 1978: 77–130.
- Jaetzold, R., Hornetz, B., Shisanya, C. A. and Schmidt, H. (2006) Farm management handbook of Kenya, Volume II: Natural conditions and farm management information, Part C: East Kenya, Subpart C1: Eastern Province, 2nd edition. Ministry of Agriculture, Kenya, in Cooperation with the German Agency for Technical Cooperation (GTZ), Nairobi, Kenya.
- Janz, N. (2011) Ehrlich and Raven Revisited: mechanisms underlying codiversification of plants and enemies. *Annual Review of Ecology, Evolution and Systematics* 42: 71–89.
- Jordan, G. J., Weston, P. H., Carpenter, R. J., Dillon, R. A. and Brodribb, T. J. (2008) The evolutionary relations of sunken, covered, and encrypted stomata to dry habitats in Proteaceae. *American Journal of Botany* 95: 521–530.
- Kartzinel, T. R., Hsing, J. C., Musili, P. M., Brown, B. R. P. and Pringle, R. M. (2019) Covariation of diet and gut microbiome in African megafauna. *PNAS* 116 (47): 23588–23593.

- Katoh, K. and Standley, D. M. (2019) MAFFT multiple sequence alignment software version 7: improvements in performance and usability. *Molecular Biology and Evolution* 30: 772–780.
- Kembel S. W., Cowan P. D., Helmus, M. R., Cornwell, W. K., Morlon, H., Ackerly, D. D., Blomberg, S. P. and Webb, C. O. (2010) Picante: R tools for integrating phylogenies and ecology. *Bioinformatics* 26:1463–1464.
- Kembel, S. W. and Hubbell, S. P. (2006) The phylogenetic structure of a Neotropical forest tree community. *Ecology* 87: SS86–SS99.
- Kimeu, J. M., Mwachala G., Reichgelt, T. and Muasya, A. M. (2020) Characterization of alternative stable vegetation assemblages in a mesic savannah in Kenya. *African Journal of Ecology* 58(3): 492–502.
- Kindt, R., van Breugel, P., Orwa, C., Lillesø, J. P. B., Jamnadass, R. and Graudal, L. (2015) Useful tree species for Eastern Africa: a species selection tool based on the Vegetationmap4africa map. Version 2.0. World Agroforestry Centre (ICRAF) and Forest & Landscape Denmark. <http://vegetationmap4africa.org>.
- Kipkoech, S., Melly, D. K., Muema, B. W., Wei, N., Kamau P., Kirika, P. M., Wang, Q. and Hu, G. (2020) An annotated checklist of the vascular plants of Aberdare ranges forest, a part of Eastern Afrotropical biodiversity hotspot. *Phytokeys* 149–188.
- Knobloch, E. and Mai, D. (1986) Monographie der Früchte und Samen in der Kreide von Mitteleuropa. *Rozprawy Ústředního Ústavu Geologického* 47: 1–219.
- Konrad, W., Burkhardt, J., Ebner, M. and Roth-Nebelsick, A. (2015) Leaf pubescence as a possibility to increase water use efficiency by promoting condensation. *Ecohydrology*. 8: 480–492.
- Kreft, H. and Jetz, W (2010) A framework for delineating biogeographical regions based on species distributions. *Journal of Biogeography* 37: 2029–2053.
- Kuraku, S., Zmasek, C. M., Nishimura, O. and Katoh, K. (2013) aLeaves facilitates on-demand exploration of metazoan gene family trees on MAFFT sequence alignment server with enhanced interactivity. *Nucleic Acids Res.* 41(Web Server issue), W22– W28.
- Kyalangalilwa, B., J. S., Boatwright, Daru, B. H., Maurin, O. and van der Bank, M. (2013) Phylogenetic position and revised classification of *Acacias* s.l. (Fabaceae: Mimosoideae) in Africa, including new combinations in *Vachellia* and *Senegalia*. *Botanical Journal of the Linnean Society* 172: 500–523.
- Lamprey, H. F. (1963). Ecological separation of the large mammal species in the Tarangire game reserve, Tanganyika. *African Journal of Ecology*, 1(1), 63–92.
- Lehmann, C. E. R., Archibald, S. A., Hoffmann, W. A. and Bond, W. J. (2011) Deciphering the distribution of the savanna biome. *New Phytologist* 191: 197–209.

- Lind, E. M. and Morrison, M. E. S. with contributions by Hamilton, A. (1974) East African vegetation. Longman, London.
- Linder, H. P. (2014) The evolution of African plant diversity. *Frontiers in Ecology and Evolution* 38: 2.
- Linder, H. P. (2017) East African Cenozoic vegetation history. *Evolutionary Anthropology* 26: 300–312.
- Linder, H. P., Lovett, J. C., Mutke, J., Barthlott, W., Jürgens, N., Rebelo, A. G. and Küper, W. (2005) A numerical re-evaluation of the sub-Saharan phytochoria of mainland Africa. *Biologische Skifter* 55: 229–252.
- Losos, J. B. (1996) Phylogenetic perspectives on community ecology. *Ecology* 77: 1344–1354.
- Lovett, J. C. (1990) Classification and status of the moist forests of Tanzania. *Mitteilungen aus dem Institut für allgemeine Botanik Hamburg* 23a: 287–300.
- Lovett, J. C., Marchant, R., Taplin, J. and Küper, W., (2004) The oldest rainforests in Africa: stability or resilience for survival and diversity? In: Purvis, A., Gittleman, J.L., Brooks, T.M. (Eds.), *Phylogeny and Conservation*. Cambridge University Press, Cambridge, UK, pp. 198–229.
- Lovett, J. C. and Wasser, S. (2008) *Biogeography and ecology of the rainforests of Eastern Africa*. Cambridge University Press, Cambridge.
- Lu, L.-M., Mao, L.-F., Yang, T., Ye, J.-F., Liu, B., Li, H.-L., Sun, M., Miller, J. T., Mathews, S., Hu, H.-H., Niu, Y.-T., Peng, D.-X., Chen, Y.-H., Smith, S. A., Chen, M., Xiang, K.-L., Le, C.-T., Dang, V.-C., Lu, A.-M., Soltis, P. S., Soltis, D. E., Li, J.-H. and Chen, Z.-D. (2018) Evolutionary history of the angiosperm flora of China. *Nature* 554: 234–238.
- Luke, Q. (2005) Annotated checklist of the plants of the Shimba hills, Kwale district, Kenya. *Journal of East African Natural History* 94(1): 5–120.
- Lusigi, W. J., Nkurunziza, E. R. and Masheti, S. (1984). Forage preferences of livestock in the arid lands of northern Kenya. *Journal of Range Management* 37: 542–548.
- Magallón, S., Gomez-Acevedo, S., Sanchez-Reyes, L. L. and Hernandez-Hernandez, T. (2015) A metacalibrated time-tree documents the early rise of flowering plant phylogenetic diversity. *New Phytologist* 207: 437–453.
- Mairal, M., Sanmartín, I., Herrero, A., Pokorný, L., Vargas, P., Aldasoro, J. J. and Alarcón, M. (2017) Geographic barriers and Pleistocene climate change shaped patterns of genetic variation in the Eastern African montane biodiversity hotspot. *Scientific Reports* 7: 45749.
- Malombe, I., Matheka, K. W., Mwadime, T. and Mwachala, G. (2020) *Dorstenia arachniformis* (Moraceae), a new species from Combretum wooded grassland in Makueni County, Kenya. *Phytotaxa* 468(2): 226–230.

- Malombe, I., Newton, L. and Kirika, P. M. (2015) Botanical inventory of Ng'utwa hill and surrounding wooded grassland in Wote division, Makueni County. A technical report to the Linnean Society of London.
- Malonza, P. K, Muasya, A. M., Lange, C., Webala, P., Mulwa, R. K., Wasonga, D. V., Mwachala, G., Malombe, I, Muasya, J, Kirika, P. and Malaki, P. (2006). Biodiversity assessment in dryland hilltops of Kitui and Mwingi districts. Technical report National Museums of Kenya, Nairobi, Kenya.
- Manchester, S. (2001) Leaves and fruits of *Aesculus* (Sapindales) from the Paleocene of North America. *International Journal of Plant Sciences* 162: 985–998.
- Marchant, R., Richer, S., Boles, O., Capitani, C., Courtney-Mustaphi, G. J., Lane, P, Prendergast, M. E, Stump, D., De Cort, G., Kaplan, J. O., Phelp, L., Kay, A., Olago, D., Petek, N., Platts, P. J., Punwong, P, Widgren, M., Wynne-Jones, S., Ferro-Vázquez, G, Benard, J., Boivin, N., Crowther, A., Cuní-Sanchez, A., Deere, N. J., Ekblom, A., Farmer, J., Finch, J., Fuller, D., Gaillard-Lemdahl, M., Gillson, L., Githumbi, E., Kabora, T., Kariuki, R., Kinyanjui, R., Kyazike, E., Lang, C., Lejju, J., Morrison, K. D., Muiruri, V., Mumbi, C., Muthoni, R., Muzuka, A., Ndiema, E., Nzabandora, C. K., Onjala, I., Schrijver, A. P., Rucina, S., Shoemaker, A., Thornton-Barnett, S., van der Plas, G., Watson, E. E., Williamson, D. and Wright, D. (2018) Drivers and trajectories of land cover change in East Africa: Human and environmental interactions from 6000 years ago to present. *Earth-Science Reviews* 178: 322–378.
- Martínez-Millán, M. (2010) Fossil record and age of the Asteridae. *The Botanical Review* 76: 83–135.
- Martínez-Millán, M., Crepet, W. L. and Nixon, K. C. (2009) *Pentapetalum trifasciculandricus* gen. et sp. nov., a thealean fossil flower from the Raritan Formation, New Jersey, USA (Turonian, Late Cretaceous). *American Journal of Botany* 96: 933–49.
- Matheka, K. W., Malombe, T., Mwadime, T., Wabuyele, E. and Newton, L. E. (2020) *Aloe ngutwaensis* (Asphodelaceae), a new species in Makueni County, south-eastern Kenya. *CactusWorld* 38(3): 211.
- Maundu, P. and Tengnas, B. (2005) Useful trees and shrubs for Kenya. Technical handbook No. 35. World Agroforestry Centre.
- Maurin, O., Davies, T. J., Burrows, J. E., Daru, B. H., Yessoufou, K., Muasya, A. M., Van der Bank, M. and Bond, W. J. (2014) Savanna fire and the origins of the “underground forests” of Africa. *New Phytologist* 204: 201–214.
- Mayfield, M. M. and Levine, J. M. (2010) Opposing effects of competitive exclusion on the phylogenetic structure of communities. *Ecology Letters* 13: 1085 –1093.
- Mazid, M., Khan, T. A. and Mohammad, F. (2011) Role of secondary metabolites in defense mechanisms of plants. *Biology and Medicine* 3: 232–249.

- Mbaluka, J. K. and Brown, F. H. (2016) Vegetation of the Koobi Fora Region Northeast of Lake Turkana, Marsabit County, Northern Kenya. *Journal of East African Natural History* 105(1): 21–50.
- Mbuni, Y. M., Zhou, Y., Wang, S., Ngumbau, V. M., Musili, P. M., Mutie, F. M., Njoroge, B., Kirika, P. M., Mwachala, G., Vivian, K., Rono, P. C., Hu, G. and Wang, Q. (2019) An annotated checklist of vascular plants of Cherangani hills, Western Kenya. *PhytoKeys* 120: 1–90.
- McNaughton, S. J. (1988) Mineral nutrition and spatial concentrations of African Ungulates. *Nature* 334: 333–334.
- Medley, K. E. and Maingi, J. K. (2014). Biogeographic patterns of forest diversity at mount Kasigau, Kenya. *Journal of East African Natural History* 103(1): 1–24.
- Mengich, E. K., Too, D. K., Macharia, J. M. and Mitloehner, R. (2013) Composition and distribution of indigenous trees and shrubs as possible criteria for indicating adapted species in semi-arid rangelands. *African Journal of Ecology* 53: 3–15.
- MEWNR (2015). Kenya Biodiversity Atlas. Ministry of Environment Natural Resources and Regional Development Authorities, Nairobi, Kenya.
- Miller, M. A., Pfeiffer, W. and Schwartz, T. (2010) Creating the CIPRES Science Gateway for inference of large phylogenetic trees. Pp. 45–52 in: Proceedings of the Gateway Computing Environments Workshop (GCE), New Orleans, Louisiana, 14 Nov 2010. Piscataway: IEEE. <https://doi.org/10.1109/GCE.2010.5676129>.
- Mittelbach, G. G., Schemske, D. W., Cornell, H. V., Allen, A. P., Brown, J. M., Bush, M. B., Harrison, S. P., Hurlbert, A. H., Knowlton, N., Lessios, H. A., McCain, C. M., McCune, A. R., McDade, L. A., McPeck, M. A., Near, T. J., Price, T. D., Ricklefs, R. E., Roy, K., Sax, D. F., Schluter, D., Sobel, J. M. and Turelli, M. (2007) Evolution and the latitudinal diversity gradient: speciation, extinction and biogeography. *Ecology Letters* 10: 315–331.
- MoA, (1987) Fertilizer Use Recommendation Project (Phase 1). Ministry of Agriculture, National Agricultural Laboratories, Nairobi, Kenya.
- Mohr, B. and Bernardes-de-Oliveira, M. (2004) *Endressinia brasiliiana*, a magnolialean angiosperm from the lower Cretaceous Crato Formation (Brazil). *International Journal of Plant Sciences* 165: 1121–1133.
- Moles, A. T., Peco, B., Wallis, I. R., Foley, W. J., Poore, A. G. B., Seabloom, E. W., Vesk, P. A., Bisigato, A. J., Cella-Pizarro, L., Clark, C. J., Cohen, P. S., Cornwell, W. K., Edwards, W., Ejrnæs, R., Gonzales-Ojeda, T., Graae, B. J., Hay, G., Lumbwe, F. C., Magaña-Rodríguez, B., Moore, B. D., Peri, P. L., Poulsen, J. R., Stegen, J. C., Veldtman, R., von Zeipel, H., Andrew, N. R., Boulter, S. L., Borer, E. T., Cornelissen, J. H. C., Farji-Brener, A. G., DeGabriel, J. L., Jurado, E., Kyhn, L. A., Low, B., Mulder, C. P. H., Reardon-Smith, K., Rodríguez-Velázquez, J., De Fortier, A., Zheng, Z., Blendinger, P. G., Enquist, B. J., Facelli, J. M., Knight, T., Majer, J. D., Martínez-Ramos, M., McQuillan, P.

- and Hui, F. K. C. (2013) Correlations between physical and chemical defences in plants: tradeoffs, syndromes, or just many different ways to skin a herbivorous cat? *New Phytologist* 198: 252–263.
- Mora-Vallejo, A., Claessens, L., Stoorvogel, J. and Heuvelink, G. B. M. (2008) Small scale digital soil mapping in Southern Kenya. *Catena* 76: 44–53.
- Morley, R. J. (2000): Origin and Evolution of Tropical Rain Forests New York: John Wiley and Sons.
- Muasya, A. M. and Mwachala, G. (2006) inventory of biodiversity in Bogoria wetlands, including Lake Bogoria National Reserve. Technical report National Museums of Kenya, Nairobi, Kenya.
- Muscarella, R., Uriarte, M., Erickson, D. L., Swenson, N. G., Zimmerman, J. K. and Kress, W. J. (2014) A Well-Resolved Phylogeny of the Trees of Puerto Rico Based on DNA Barcode Sequence Data. *PLoS ONE* 9(11): e112843.
- Mutuku, P. M. and Kenfack, D. (2019). Effect of local topographic heterogeneity on tree species assembly in an *Acacia*-dominated African savannah. *Journal of Tropical Ecology* 35: 46–56.
- Naeem, S., Prager, C., Weeks, B., Varga, A., Flynn, D. F. B., Griffin, K., Muscarella, R., Palmer, M., Wood, S. and Schuster, W. (2016). Biodiversity as a multidimensional construct: a review, framework and case study of herbivory's impact on plant biodiversity. *Proceedings of the Royal Society B: Biological Sciences* 283(1844): 20153005.
- Ngumbau, V. M., Luke, Q., Nyange, M., Wanga, V. O., Watuma, B. M., Mbuni, Y. M., Munyao, J. N., Oulo, M. A., Mkala, E. M., Kipkoech, S., Itambo, M., Hu, G. and Wang, Q. (2020) An annotated checklist of the coastal forests of Kenya, East Africa. *PhytoKeys* 147: 1–191.
- Ngugi, G. W. (2007) Ethnobotanical survey of Kiang'ombe forest, Kenya: Floristic inventory, utilization and conservation status. Masters Thesis, Kenyatta University, Kenya.
- Niinemets Ü and Tamm Ü (2005). Species differences in timing of leaf fall and foliage chemistry modify nutrient resorption efficiency in deciduous temperate forest stands. *Tree Physiology* 25, 1001–1014.
- Nyamai, C. M., Mathu, E. M., Opiyo-Akech, N. and Wallbrecher, E. (2003) A reappraisal of the geology, geochemistry, structures and tectonics of the Mozambique belt in Kenya, east of the rift system. *African Journal of Science and Technology Science and Engineering* 4: 51–71.
- Nyambane, D. O., Njoroge, J. B. and Onyango, A. W. (2016) Assessment of tree species distribution and diversity in the major urban green spaces of Nairobi, Kenya. *Journal of Horticulture and Forestry* 8(2): 12–23.

- Owen-Smith, N. (1989) Megafaunal Extinctions: The Conservation Message from 11,000 Years B.P. *Conservation Biology* 3: 405–412.
- Owen-Smith N (2005) Incorporating fundamental laws of biology and physics into population ecology: the metaphysiological approach. *Oikos* 111, 611–615.
- Owen-Smith, N. (2021) Only in Africa: The Ecology of Human Evolution. Cambridge: Cambridge University Press. doi:10.1017/9781108961646.
- Parham, J. F., Donoghue, P. C., Bell, C. J., Calway, T. D., Head, J. J., Holroyd, P. A., Inoue, J. G., Irmis, R. B., Joyce, W. G., Ksepka, D. T., Patane, J. S., Smith, N. D., Tarver, J. E., Tuinen, M., Yang, Z., Angielczyk, K. D., Greenwood, J. M., Hipsley, C. A., Jacobs, L., Makovicky, P. J., Müller, J., Smith, K. T., Theodor, J. M., Warnock, R. C., Benton, M. J. (2012) Best practices for justifying fossil calibrations. *Systematic Biology* 61: 346–359.
- Pearson, R. G. and Dawson, T. P. (2003) Predicting the impacts of climate change on the distribution of species: are bioclimate envelope models useful? *Global Ecology and Biogeography* 12: 361–371.
- Pellegrini, AF (2016) Nutrient limitation in tropical savannas across multiple scales and mechanisms. *Ecology*, 97, 313–324.
- Pigg, K. B., Stockey, R. and Maxwell, S. (1993) Paleomyrtinaea, a new genus of permineralized myrtaceous fruits and seeds from the Eocene of British Columbia and Paleocene of North Dakota. *Canadian Journal of Botany* 71: 1–9.
- Porter, L. J., Hrstich, L. N. and Chan, B. C. (1986) The conversion of procyanidins and prodelphinins to cyanidin and delphinin. *Phytochemistry* 25: 223–230.
- Posada, D. (2008) jModel Test: phylogenetic model averaging. *Molecular Biology and Evolution* 25: 1253–1256.
- Pratt, D. J., Greenway, P. J. and Gwynne, M. D. (1966) A classification of east African rangeland with an appendix on terminology. *Journal of Applied Ecology* 3: 369–382.
- Pringle, R. M., Prior, K. M., Palmer, T. M., Young, T. P. and Goheen, J. R. (2016) Large herbivores promote habitat specialization and beta diversity of African savanna trees. *Journal of Ecological Society of America* 97: 2640–2657.
- Ramette, A. (2007) Multivariate analysis in microbial ecology. *Federation of European Microbiology Societies (FEMS)* 62: 142–160.
- Ratnam, J., Bond, W. J., Fensham, R. J., Hoffmann, W. A., Archibald, S., Lehmann, C. E. R., Anderson, M. T., Higgins, S. I., Sankaran, M. (2011). When is a 'forest' a savanna, and why does it matter? *Global Ecology and Biogeography* 20: 653–660.
- Redding, D. W. and Mooers, A. Ø. (2006) Incorporating evolutionary measures into conservation prioritization. *Conservation Biology* 20: 1670–1678.

- Redding, D. W., Hartmann, K., Mimoto, A., Bokal, D., Devos, M. and Mooers, A.O. (2008) Evolutionarily distinctive species often capture more phylogenetic diversity than expected. *Journal of Theoretical Biology* 251: 606–615.
- Ricklefs, R. E. (2008). Disintegration of the Ecological Community. *American Society of Naturalists* 172: 741– 750.
- Robbins, C. T., Mole, S. and Hanley, T. A. (1987) Role of tannins in defending plants against ruminants: reduction in dry matter digestion? *Ecology* 68(6): 1606–1615.
- Rooke, T., Danell, K., Bergstrom, R., Skarpe, C. and Hjalten, J. (2004) Defensive traits of savanna trees - the role of shoot exposure to browsers. *Oikos* 107: 161–17.
- Ruggiero, P. G. C., Batalha, M. A., Pivello, V. R. and Meirelles, S. T. (2002) Soil-vegetation relationships in cerrado (Brazilian savanna) and semideciduous forest, Southeastern Brazil. *Plant Ecology* 160: 1–16.
- Ruhfel, B., Stevens, P. and Davis, C. (2013) Combined morphological and molecular phylogeny of the clusioid clade (Malpighiales) and the placement of the ancient rodin macrofossil *Paleoclusia*. *International Journal of Plant Sciences* 174: 910–936.
- Sankaran, M., and Ratnam, J. (2013). African and Asian Savannas. *Encyclopedia of Biodiversity* 58–74.
- Sankaran, M., Hanan, N. P., Scholes, R. J., Ratnam, J., Augustine, D. J., Cade, B. S., Gignoux, J., Higgins, S. I., Xavier Le Roux, Ludwig, F., Ardo, J., Banyikwa, F., Bronn, A., Bucini, G., Caylor, K. K., Coughenour, M. B., Diouf, A., Ekaya, W., Feral, C. J., February, E. C., Frost, P. G. H., Hiernaux, P., Hrabar, H., Metzger, K. L., Prins, H. H. T, Ringrose, S., Sea, W., Tews, J., Worden, J. and Zambatis, N. (2005) Determinants of woody cover in African Savannas. *Nature* 438: 846–849.
- Sankaran, M., Ratnam, J. and Hanan N. P. (2008) Woody cover in African savannas: the role of resources, fire and herbivory. *Global Ecology and Biogeography* 17: 236–245.
- Schmitt, C. B., Kisangau, D. and Matheka, K. W. (2019) Tree diversity in a human modified riparian forest landscape in semi-arid Kenya. *Forest Ecology and Management* 433: 645–655.
- Scholes, R. J. (1990) The influence of soil fertility on the ecology of Southern African dry savannas. *Journal of Biogeography* 17: 415–419.
- Scholes, R. J. and Walker, B. H. (2004) An African savanna: synthesis of the Nylsvley study. Cambridge University Press, Cambridge.
- Scholes, R. J., Gureja, N., Giannecchini, M., Dovie, D., Wilson, B., Davidson, K., Piggott, K., McLoughlin, C., van der Velde, K., Freeman, A., Bradley, S., Smart, R. and Ndala, S. (2001). The environment and vegetation of the flux measurement site near Skukuza, Kruger National Park. *Koedoe* 44, 73–83.

- Schönenberger, J., Friis, E., Matthews, M. and Endress, P. (2001a) Cunoniaceae in the Cretaceous of Europe: evidence from fossil flowers. *Annals of Botany* 88: 423–437.
- Scogings P, Dziba E. and Gordon I. J. (2004) Leaf chemistry of woody plants in relation to season, canopy retention and goat browsing in a semi-arid subtropical savanna. *Austral Ecology* 29: 278–286.
- Senut, B., Pickford, M. and Ségalen, L. (2009) Neogene desertification of Africa. *Comptes Rendus Geoscience* 341: 591–602.
- Sepulchre, P., Ramstein, G., Fluteau, F., Schuster, M., Tiercelin, J. J. and Brunet, M. (2006). Tectonic uplift and Eastern Africa aridification. *Science* 313: 1419–1423.
- Siesser, W. G. (1980) Late Miocene origin of the Benguela upswelling system off northern Namibia. *Science* 208: 283–285.
- Šmilauer, P. and Lepš, J. (2003) Multivariate analysis of ecological data using CANOCO. University of South Bohemia, Czech Republic. Cambridge University Press. UK.
- Smith, S. A. and O'Meara, B. C. (2012) treePL: divergence time estimation using penalized likelihood for large phylogenies. *Bioinformatics* 28: 2689–2690.
- Stamatakis, A., Ludwig, T. and Meier, H. (2006) RAxML-III: a fast program for maximum likelihood-based inference of large phylogenetic trees. *Bioinformatics* 21(4): 456–463.
- Stevens, R. D. and Gavilanez, M. M. (2015) Dimensionality of community structure: Phylogenetic, morphological and functional perspectives along biodiversity and environmental gradients. *Ecography* 38(9): 861– 875.
- Strauss, S.Y., Webb, C.O. and Salamin, N. (2006). Exotic taxa less related to native species are more invasive. *Proceedings of the National Academy of Sciences of the United States of America* 103: 5841– 5845.
- Swain, T. (1977) Secondary compounds as protective agents. *Annual Review of Plant Physiology* 28: 479–501.
- Takahashi, M., Crane, P. and Ando, H. (1999) *Esgueiria futabensis* sp. nov., a new angiosperm flower from the Upper Cretaceous (lower Coniacian) of northeastern Honshu, Japan. *Paleontological Research* 3: 81–87.
- Takahashi, M., Friis, E. M., Uesugi, K., Suzuki, Y. and Crane, P. R. (2008b) Floral evidence of Annonaceae from the Late Cretaceous of Japan. *International Journal of Plant Sciences* 169: 908–917.
- ter Braak, C. J. F. and Šmilauer, P. (2002) CANOCO reference manual and CanoDraw for Windows user's guide: Software for Canonical Community Ordination (version 4.5). Microcomputer Power, Ithaca, NY.

- Tomlinson KW, van Langevelde F, Ward D, Prins HHT, de Bie S, Vosman B, Sampaio EVSB and Sterck FJ (2016) Defence against vertebrate herbivores trades off into architectural and low nutrient strategies amongst savanna Fabaceae species. *Ikos* 000: 001–011.
- Trapnell, C. G. and Griffin, J. F. (1960) The rainfall-altitude relation and its ecological significance in Kenya. *The East African Agricultural Journal* 25: 207–213.
- Tucker, C. M., Cadotte, M. W., Carvalho, S. B., T. Davies, T. J., Ferrier, S., Fritz, S. A., Grenyer, R., Helmus, M. R., Jin, L. S., Mooers, A. O., Pavoine, S., Purschke, O., Redding, D. W., Rosauer, D. F., Winter, M. and Mazel, F. (2017) A guide to phylogenetic metrics for conservation, community ecology and macroecology. *Biological Reviews* 92: 698 – 715.
- Tweedie, E. M. (1976) Habitats and checklist of plants on the Kenya side of Mount Elgon. *Kew Bulletin* 31(2): 227–257.
- Vamosi, S. M., Heard, S. B., Vamosi, J. C. and Webb, C. O. (2008). Emerging patterns in the comparative analysis of phylogenetic community structure. *Molecular Ecology* 18: 572–592.
- van Breugel, P., Kindt R., Lillesø, J. P. B., Bingham, M., Demissew, S., Dudley, C., Friis, I., Gachathi, F., Kalema, J., Mbago, F., Moshi, H. N., Mulumba, J., Namaganda, M., Ndangalasi, H. J., Ruffo, C. K., Védaste, M., Jamnadass, R. and Graudal, L. (2015) Potential Natural Vegetation Map of Eastern Africa (Burundi, Ethiopia, Kenya, Malawi, Rwanda, Tanzania, Uganda and Zambia). Version 2.0. Forest and Landscape (Denmark) and World Agroforestry Centre (ICRAF). URL: <http://vegetationmap4africa.org>.
- von Balthazar, M., Pedersen, K. and Friis, E. (2005) *Teixeiraea lusitanica*, a new fossil flower from the Early Cretaceous of Portugal with affinities to the Ranunculales. *Plant Systematics and Evolution* 255: 55–75.
- von Balthazar, M., Pedersen, K. R., Crane, P. R., Stampanoni, M. and Friis, E. M. (2007) *Potomacanthus lobatus* gen. et sp. nov., a new flower of probable Lauraceae from the Early Cretaceous (Early to Middle Albian) of eastern North America. *American Journal Botany* 94: 2041–2053.
- Waliaula, S. F. M. (1991) Recorded plants of Kenya, A reference manual giving plant names and their location. Department of resource surveys and remote sensing, ministry of planning and national development, Kenya.
- War, A. R., Paulraj, M. G., Ahmad, T., Buhroo, A. A., Hussain, B., Ignacimuthu, S. and Sharma, H. C. (2012) Mechanisms of plant defense against insect herbivores. *Plant Signal and Behavior* 7(10): 1306–1320.
- War, A. R., Taggar, G. K., Hussain, B., Taggar, M. S., Nair, R. M. and Sharma, H. C. (2018) Plant defence against herbivory and insect adaptations. *AoB PLANTS* 10, ply037.

- Ward, D. and Young, T. P. (2002) Effects of large mammalian herbivores and ant symbionts on condensed tannins of *Acacia drepanolobium* in Kenya. *Journal of Chemical Ecology* 28: 921–937.
- Webb C. O. (2000) Exploring the phylogenetic structure of ecological communities: an example for rain forest trees. *American Naturalist* 156:145–155.
- Webb CO, Donoghue MJ. 2005. Phylomatic: tree assembly for applied phylogenetics. *Molecular Ecology Notes* 5: 181–183.
- Webb, C. O., Ackerly, D. D., McPeck, M. A. and Donoghue, M. J. (2002). Phylogenies and community ecology. *Annual Review of Ecology, Evolution, and Systematics* 33: 475–505.
- Wheeler, E., Lee, M. and Matten, L. C. (1987) Dicotyledonous woods from the Upper Cretaceous of southern Illinois. *Botanical journal of the Linnean Society* 95: 77–100.
- White, F. (1983) The vegetation of Africa. A descriptive memoir to accompany the Unesco/AETFAT/UNSO vegetation map of Africa (pp. 1–356). Paris, France: UNESCO.
- Whittaker, R. H. (1975). *Communities and Ecosystems*, 2nd edn. New York: McMillan.
- Wigley, B. J., Coetsee, C., Augustine, D. J., Ratnam, J., Hattas, D. and Sankaran, M. (2019) A thorny issue: Woody plant defense and growth in an East African savanna. *Journal of Ecology* 107:1839–1851.
- Wigley, B. J., Coetsee, C., Hartshorn, A. S. and Bond, W.J. (2013) What do ecologists miss by not digging deep enough? Insights and methodological guidelines for assessing soil fertility status in ecological studies. *Acta Oecologica* 51: 17–27.
- Wigley, B. J., Fritz, H. and Coetsee, C. (2018) Defence strategies in African savanna trees. *Oecologia* 187: 797–809.
- Wigley, B. J., Coetsee, C., Augustine, D., Ratnam, J., Hattas, D., & Sankaran, M. (2019). A thorny issue: woody plant defence and growth in an East African savanna. *Journal of Ecology*. doi:10.1111/1365-2745.13140.
- Wilson, J. B. and Agnew, A. D. (1992) Positive-feedback switches in plant communities. *Advances in Ecological Research* 23: 263–336.
- Woodwell, G. M. and Whittaker, R. H. (1968) Primary Production in Terrestrial Ecosystems. *American Zoologist* 8: 19–30.
- Zhou, Y. (2017) Inventory and diversity of vascular plants in Mount Kenya, East Africa. PhD Thesis, Wuhan Botanical Garden, Wuhan.
- Zhou, Y., Liu, B., Mbuni, Y., Yan, X., Mwachala, G., Hu, G., and Wang, Q. (2017) Vascular flora of Kenya, based on the Flora of Tropical East Africa. *PhytoKeys* 90: 113–126.

Zhou, Y., Chen, S., Hu, G., Mwachala, G., Yan, X. and Wang, Q. (2018) Species richness and phylogenetic diversity of seed plants across vegetation zones of Mount Kenya, East Africa. *Ecology and Evolution* 8: 930–939.

Appendices

Appendix 1. Species matrix of plant checklists used for characterization of the vegetation of Kenya plant communities. Checklist area names here are abbreviated because of space but each abbreviation bracketed against its full name in Appendix 2

Taxon	Mum	Bo	L.Ke	L.Ji	Mri	Kin	Ji	Sh	Shi	Ar	Mt.N	Tai	Chy	Kas	Kar	Ng
<i>Abildgaardia ovata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Abrus precatorius</i>	0	0	1	0	1	0	0	0	1	1	0	0	0	1	0	0
<i>Abrus schimperi</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Abutilon engleranum</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Abutilon figarianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Abutilon fruticosum</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Abutilon graveolens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Abutilon guineense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Abutilon hirtum</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Abutilon holstii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Abutilon longicuspe</i>	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1
<i>Abutilon mauritianum</i>	1	1	1	1	1	1	0	1	1	0	1	1	0	0	0	0
<i>Abutilon pannosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Abutilon striatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Abutilon wituense</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Abutilon zanzibaricum</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

<i>Acacia elatior</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia adenocalyx</i>	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
<i>Acacia albida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Acacia ancistroclada</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Acacia ataxacantha</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia brevispica</i>	0	1	0	0	1	0	0	1	1	0	0	0	0	1	0	1
<i>Acacia bullockii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia bussei</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia elatior</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia etbaica</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
<i>Acacia gerrardii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Acacia goetzei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia hamulosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia hockii</i>	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1
<i>Acacia horrida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia kirkii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Acacia lahai</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Acacia melanoxylon</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia mellifera</i>	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0

<i>Acacia monticola</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia montigena</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia nilotica</i>	1	1	1	0	0	0	0	1	0	1	0	0	0	1	0	1
<i>Acacia nubica</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia oerfota</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia paolii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia pentagona</i>	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
<i>Acacia persiciflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia polyacantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia reficiens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Acacia robusta</i>	0	0	1	0	1	0	0	0	0	1	0	0	0	1	0	0
<i>Acacia royumae</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Acacia Senegal</i>	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0
<i>Acacia seyal</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Acacia sieberiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia thomasii</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia tortilis</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Acacia xanthophloea</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acacia zanzibarica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Acalypha bipartita</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Acalypha</i>																
<i>brachystachya</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acalypha ciliata</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acalypha crenata</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Acalypha echinus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acalypha engleri</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Acalypha fruticosa</i>	1	1	0	0	1	1	0	1	1	1	1	1	0	0	1	0
<i>Acalypha indica</i>	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0
<i>Acalypha lanceolata</i>	0	0	1	0	0	1	0	1	1	0	0	0	0	0	0	0
<i>Acalypha neptunica</i>	0	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0
<i>Acalypha ornata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acalypha polymorpha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acalypha psilostachya</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acalypha racemosa</i>	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	1
<i>Acalypha supera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acalypha villicaulis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Acalypha volkensis</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1
<i>Acampe pachyglossa</i>	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
<i>Acanthopale</i>																
<i>macrocarpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acanthopale pubescens</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

<i>Acanthospermum hispidum</i>	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acanthus eminens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acanthus polystachyus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acanthus pubescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acer oblongum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Achyranthes aspera</i>	1	1	1	1	1	0	0	1	1	0	1	1	1	0	1	0
<i>Achyranthes bidentata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Achyropsis greenwayii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Achyrospermum parviflorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Achyrospermum schimperi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Achyrothalamus marginatus</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Acmella caulirhiza</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Acokanthera oppositifolia</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
<i>Acokanthera schimperi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Acridocarpus alopecurus</i>	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0
<i>Acridocarpus zanzibaricus</i>	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0

<i>Acrocarpus fraxinifolius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acrostichum aureum</i>	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
<i>Actiniopteris radiata</i>	1	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Actiniopteris semiflabellata</i>	1	1	0	0	0	0	0	0	0	0	1	0	1	1	0	0
<i>Adansonia digitata</i>	0	0	1	0	1	1	1	1	1	1	0	1	0	1	0	0
<i>Adenanthera pavonina</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Adenia bequaertii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Adenia cissampeloides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Adenia ellenbeckii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Adenia globosa</i>	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Adenia gummifera</i>	0	0	1	0	1	1	0	0	1	1	0	0	0	0	1	0
<i>Adenia kirkii</i>	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0
<i>Adenia lanceolata</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Adenia metriosiphon</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Adenia rumicifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Adenia schweinfurthii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Adenia venenata</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Adenia volkensii</i>	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Adenium obesum</i>	0	1	0	0	0	0	0	1	0	1	0	1	0	0	0	0
<i>Adenocarpus mannii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Adenostemma caffrum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Adenostemma mauritianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Adenostemma perrottetii</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Adhatoda engleriana</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Adhatoda vasica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Adiantum capillus-veneris</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
<i>Adiantum hispidulum</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Adiantum incisum</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Adiantum poiretii</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Adiantum raddianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Adiantum thalictroides</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Aeolanthus pubescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aeollanthus densiflorus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aeollanthus heliotropioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aeollanthus repens</i>	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Aeollanthus suaveolens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aeollanthus zanzibaricus</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0

<i>Aerangis brachycarpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Aerangis confusa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Aerangis kirkii</i>	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0
<i>Aerangis kotschyana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aerangis luteo-alba</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aerangis rhodosticta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aerangis somalensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aerangis thomsonii</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Aerangis ugandensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aerva javanica</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aerva lanata</i>	0	1	0	1	1	0	0	1	1	1	0	0	0	0	1	0
<i>Aerva leucura</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aeschynomene abyssinica</i>	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Aeschynomene indica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aeschynomene schimperi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aframomum angustifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aframomum keniense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aframomum mala</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Aframomum subsericeum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aframomum zambesiacum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Afrocanthium kilifiense</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Afrocanthium lactescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Afrocanthium pseudoverticillatum</i>	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
<i>Afrocarpus gracilior</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Afrocrania volkensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Afroligusticum aculeolatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Afroligusticum elgonense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Afroligusticum linderi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Afrosciadium friesiorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Afrosciadium harmsianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Afrosciadium kerstenii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Afrosersalisia cerasifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Afzelia quanzensis</i>	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0

<i>Agathisanthemum bojeri</i>	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Agathisanthemum globosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agauria salicifolia</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
<i>Agelaea pentagyna</i>	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0
<i>Agelaea ugandensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agelanthus brunneus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agelanthus elegantulus</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Agelanthus sansibarensis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Agelanthus zizyphifolius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ageratum conyzoides</i>	1	1	0	0	1	0	0	1	1	1	0	0	0	0	1	1
<i>Agrocharis incognita</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agrocharis melanantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agrostis gracilifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agrostis kilimandscharica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agrostis schimperana</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Agrostis sclerophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aira caryophyllea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ajuga integrifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Ajuga remota</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Alafia caudata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alafia microstylis</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Alangium chinense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Albizia adianthifolia</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Albizia amara</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Albizia anthelmintica</i>	0	1	0	1	0	0	0	1	0	0	0	0	0	1	0	0
<i>Albizia glaberrima</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Albizia grandibracteata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Albizia gummifera</i>	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
<i>Albizia harveyi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Albizia lebbeck</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Albizia saman</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Albizia schimperiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Albizia versicolor</i>	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
<i>Albizia zimmermannii</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Albizia zygia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Albuca abyssinica</i>	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
<i>Albuca bracteata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Albuca donaldsonii</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0

<i>Albuca tenuis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alchemilla abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alchemilla argyrophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alchemilla cryptantha</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Alchemilla cyclophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alchemilla elgonensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alchemilla ellenbeckii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alchemilla fischeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alchemilla gracilipes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alchemilla hageniae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alchemilla johnstonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alchemilla kiwuensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alchemilla pedata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alchemilla rothii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Alchornea cordifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alchornea hirtella</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alchornea laxiflora</i>	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0
<i>Alectra alba</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alectra asperima</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Alectra orobanchoides</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0

<i>Alectra parasitica</i>	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Alectra rigida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alectra sessiliflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Alepidea longifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alepidea peduncularis</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Aleuritopteris farinosa</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
<i>Allophylus abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Allophylus africanus</i>	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Allophylus alnifolius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Allophylus chirindensis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Allophylus ferrugineus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Allophylus griseo-tomentosus</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Allophylus kllimandischarichus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Allophylus macrobotrys</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Allophylus pervillei</i>	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0
<i>Allophylus rubifolius</i>	1	0	1	0	1	1	1	1	1	1	0	1	0	0	1	1
<i>Alloteropsis cimicina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alloteropsis semialata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aloe citrina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Aloe deserti</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Aloe francombei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aloe kedongensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Aloe lateritia</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Aloe macrosiphon</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aloe nyeriensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aloe rabaiensis</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Aloe ruspoliana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aloe secundiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aloe sp.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aloe ukambensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aloe vituensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alternanthera caracasana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alternanthera pungens</i>	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0
<i>Alternanthera sessilis</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Alysicarpus glumaceum</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Alysicarpus glumaceus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alysicarpus ovalifolius</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Alysicarpus rugosus</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Alysicarpus vaginalis</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Amaranthus dubius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Amaranthus graecizans</i>	0	1	1	1	0	0	0	1	1	0	0	0	1	0	0	0
<i>Amaranthus hybridus</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Amaranthus lividus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Amaranthus sparganiocephalus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Amaranthus spinosus</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Amauropelta bergiana</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
<i>Amauropelta oppositiformis</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Amauropelta strigosa</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Ammannia auriculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ammannia baccifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ammannia kilimandscharica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ammi majus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Amorphophallus abyssinicus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Amorphophallus calabaricus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Amorphophallus maximus</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

<i>Ampelocissus africana</i>	0	0	1	0	0	1	0	1	0	0	1	0	1	0	0	0
<i>Ampelocissus obtusata</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Amphicarpaea africana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Anacardium occidentale</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Anagallis arvensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Anagallis hexamera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Anagallis pumila</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Anagallis serpens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Anchomanes abbreviatus</i>	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0
<i>Ancylobothrys petersiana</i>	0	0	1	0	1	1	1	1	1	1	0	0	0	0	0	0
<i>Ancylobothrys tayloris</i>	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0
<i>Androcymbium melanthioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Andropogon amethystinus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Andropogon canaliculatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Andropogon chinensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Andropogon chrysostachyus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Andropogon distachyos</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Andropogon schirensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Aneilema aequinoctiale</i>	1	0	0	0	0	0	0	1	0	1	0	1	0	0	1	0
<i>Aneilema beniniense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aneilema clarkei</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Aneilema leicocaula</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
<i>Aneilema petersii</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Aneilema reeurvatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aneilema succulentum</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Aneliema johnstonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Anemia schimperiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Anemone thomsonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Angraecopsis amaniensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Angraecopsis breviloba</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Angraecopsis gracillima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Angraecopsis tenerima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Angraecum decipiens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Angraecum dives</i>	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
<i>Angraecum erectum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Angraecum firthii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Angraecum humile</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Angraecum infundibulare</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Angraecum sacciferum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aningeria adolfi-friedericii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aningeria altissima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Anisopappus africanus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Anisopappus buchwaldii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Anisopappus chinensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Anisopappus holstii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Anisopappus oliveranus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
<i>Anisotes tanensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Anisotes ukambensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Annona muricata</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Annona senegalensis</i>	0	0	1	0	0	1	1	1	1	0	0	0	0	0	0	0
<i>Annona squamosa</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Anogramma leptophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ansellia africana</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Ansellia gigantea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Anthemis cotula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Anthemis tigreensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Anthericopsis sepalosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Anthericum angustifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Anthericum cooperi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Anthericum gregorianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Anthericum monophyllum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Anthericum subpetiolatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Anthericum suffruticosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Antherotoma naudinii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Antherotoma senegambiensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Anthocleista grandiflora</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Anthocleista vogelii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Anthocleista zambesiaca</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Anthospermum herbaceum</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0

<i>Anthospermum usambarense</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Anthoxanthum nivale</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Anthriscus sylvestris</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Antiaris toxicaria</i>	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0
<i>Anticharis senegalensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Antidesma venosum</i>	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Antidesma vogelianum</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Antigonon leptopus</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Antopetitia abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Antrophyum immersum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Antrophyum mannianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aphania senegalensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Apodostigma pallens</i>	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0
<i>Apodytes dimidiata</i>	0	0	1	0	0	0	0	1	0	1	0	1	0	1	0	1
<i>Aponogeton abyssinicus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Aponogeton nudiflorus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aptosimum pumilum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Arabis alpina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Arabis glabra</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Arachniodes foliosa</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0
<i>Arachnoides webbiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Arapidopsis thaliana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Arcenthobium juniperi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ardisiandra sibthorpioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ardisiandra wettsteinii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Arenaria foliacea</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Arenaria montana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Argemone mexicana</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Argomuelleria macrophylla</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Argyranthemum frutescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Argyrolobium fischeri</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
<i>Argyrolobium friesianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Argyrolobium rupestre</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aristea abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aristea alata</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Aristea angolensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Aristida adoensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Aristida adscensionsis</i>	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
<i>Aristida barbicollis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Aristida congesta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aristida kenyaensis</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Aristida mutabilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aristida stenostachya</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Aristogeitonia monophylla</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Aristolochia albida</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Aristolochia bracteolata</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Artabotrys likimensis</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Artabotrys modestus</i>	0	0	1	0	1	0	0	0	1	1	0	0	0	0	0	0
<i>Artabotrys monteiroae</i>	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
<i>Artabotrys nitidus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Artemisia afra</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Artemisia arborescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Arthrocnemum indicum</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Arthropteris monocarpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Arthropteris orientalis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
<i>Arundinaria alpina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Arva lanata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Asclepias fulva</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Asepalum eriantherum</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Asparagus aethiopicus</i>	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
<i>Asparagus africanus</i>	1	0	1	0	0	0	0	0	0	1	1	0	1	0	0	1
<i>Asparagus asparagoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Asparagus buehneri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Asparagus falcatus</i>	1	0	0	0	0	1	1	1	1	1	1	0	0	0	0	1
<i>Asparagus flagellaris</i>	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0
<i>Asparagus humilis</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Asparagus racemosus</i>	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1
<i>Asparagus setaceus</i>	1	0	0	0	0	0	0	0	1	1	0	0	1	0	1	1
<i>Aspidoglossum elliotii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aspidoglossum masaicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Aspilia ciliata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aspilia kotschy</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aspilia mossambicensis</i>	1	0	0	0	1	0	0	1	0	0	0	0	1	0	1	1

<i>Aspilia pluriseta</i>	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
<i>Asplenium abyssinicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Asplenium adiantum-nigrum</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Asplenium aethiopicum</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
<i>Asplenium africanum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Asplenium albersii</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Asplenium angolense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Asplenium blastophorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Asplenium boltonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Asplenium buettneri</i>	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0
<i>Asplenium bugoiense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Asplenium ceii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Asplenium christii</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Asplenium dregeanum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Asplenium elliotii</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0
<i>Asplenium erectum</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0
<i>Asplenium formosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Asplenium friesiorum</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0
<i>Asplenium gemmiferum</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0

<i>Asplenium hypomelas</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Asplenium inaequilaterale</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0
<i>Asplenium kassneri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Asplenium linckii</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Asplenium lividum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Asplenium loxoscaphoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Asplenium lunulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Asplenium macrophlebium</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Asplenium mannii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Asplenium megalura</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Asplenium monanthes</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Asplenium normale</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Asplenium preussii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Asplenium protensum</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Asplenium pseudoauriculatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Asplenium rutifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
<i>Asplenium sandersonii</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0
<i>Asplenium strange</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

<i>Asplenium stuhlmannii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Asplenium theciferum</i>	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0
<i>Asplenium trichomanes</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Asplenium uhligii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Asplenium unilaterale</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Asplenium variabile</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Asplenium varians</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Asteranthe asterias</i>	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0
<i>Asteriscus sericeus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Astragalus atropilosulus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Astripomoea hyoscyamoides</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Astripomoea malvacea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Asystasia anellioides</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Asystasia gangetica</i>	1	0	1	0	1	1	1	1	1	1	0	0	0	0	0	0
<i>Asystasia laticapsula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Asystasia mysorensis</i>	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
<i>Asystasia schimperi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Athrixia rosmarinifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Athroisma gracile</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

<i>Athroisma hastifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Athroisma psyllioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Athroisma stuhlmannii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Athyrium scandicinum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Athyrium schimperi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Atopetitia abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Aulacocalyx diervilleoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Australina flaccida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Avicennia marina</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Axonopus compressus</i>	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
<i>Azadirachta indica</i>	0	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0
<i>Azanza garckeana</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Azima tetraacantha</i>	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0
<i>Azolla nilotica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Baccharoides adoensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Baccharoides anthelmintica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Baissea major</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Baissea multiflora</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Baissea myrtifolia</i>	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0

<i>Balanites aegyptiaca</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Balanites aegyptiaca</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Balanites glabra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Balanites maughamii</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Balanites orbicularis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Balanites pedicellaris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Balanites rotundifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Balanites wilsoniana</i>	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
<i>Balanites zeylanicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ballya zebrina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Baphia keniensis</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Barbarea intermedia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Barleria acanthoides</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Barleria angustiloba</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Barleria argentea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Barleria delamerei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Barleria eranthemoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Barleria grandicalyx</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Barleria inclusa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Barleria linearifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Barleria maritima</i>	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
<i>Barleria micrantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
<i>Barleria proxima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Barleria quadrispina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Barleria ramulosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Barleria repens</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Barleria sp.</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Barleria spinisepala</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Barleria submollis</i>	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	1
<i>Barleria taitensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Barleria trispinosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Barleria ventricosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Barleria volkensii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Barleria whytei</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Bartsia</i>																
<i>kilimandscharica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bartsia longiflora</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Bartsia petitiiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bartsia trixago</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Basananthe</i>																
<i>hanningtoniana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Basananthe lanceolata</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Basananthe subsessilicarpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Basella alba</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Basilicum polystachyon</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bauhinia thonningii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bauhinia tomentosa</i>	0	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0
<i>Becium capitatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Becium decumbens</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Becium filamentosum</i>	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
<i>Becium obovatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Becium sp.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Begonia eminii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Begonia meyeri-johannis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Begonia oxyloba</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bequaertiodendron natalense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bequaertiodendron oblanceolatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Berberis holstii</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Berchemia discolor</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0

<i>Bergia suffruticosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Berkheya spekeana</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Bersama abyssinica</i>	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
<i>Bidens biternata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bidens elgonensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bidens flagellata</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Bidens hildebrandtii</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Bidens incumbens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bidens kilimandscharica</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Bidens lineata</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Bidens pilosa</i>	0	1	0	1	1	1	0	1	1	0	0	0	0	0	0	0
<i>Bidens rueppellii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bidens schimperi</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Bidens ternata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Biophytum abyssinicum</i>	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Biophytum petersianum</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Biophytum umbra</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Biophytum umbraculum</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Bivinia jalbertii</i>	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0

<i>Blaeria filago</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Blaeria johnstonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Blainvillea acmella</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Blainvillea gayana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Blechnum attenuatum</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Blechnum australe</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Blechnum ivohibense</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Blechnum punctulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Blechnum tabulare</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Blepharis ciliaris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Blepharis edulis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Blepharis hildebrandtii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Blepharis integrifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Blepharis linariifolia</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Blepharis maderaspatensis</i>	0	1	1	1	1	0	0	1	1	1	0	0	1	1	0	0
<i>Blepharis persica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Blepharis tanae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Blepharis turkanae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Blepharispernum fruticosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Blepharispermum lanceolatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Blepharispermum minus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Blepharispermum zanguebaricum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Blighia unijugata</i>	0	0	1	0	1	1	1	0	1	0	0	1	0	0	0	0
<i>Blotiella glabra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Blotiella stipitata</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Blumea bovei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Blumea alata</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Blumea aurita</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Blumea axillaris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Blumea brevipes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Blumea elatior</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Blyttia fruticosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Blyttia spiralis</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Boehmeria macrophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Boehmeria platyphylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Boerhavia coccinea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Boerhavia diffusa</i>	0	0	1	1	1	0	0	1	1	0	0	0	0	0	0	0

<i>Boerhavia erecta</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Boerhavia repens</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bolbitis heudelotii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bolusiella imbricata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bolusiella iridifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Bolusiella maudiae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bolusiella irdifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Bombax rhodognaphatonK.</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Bonatea steudneri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Boophone disticta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Borassus aethiopum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Boscia angustifolia</i>	1	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0
<i>Boscia angustifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Boscia coriacea</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Boscia coriacea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Boscia minimifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Boscia mossambicensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Boscia salicifolia</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bosqueia phoberos</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Boswellia hildebrandtii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Boswellia neglecta</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Boswellia neglecta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Bothriochloa bladhii</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bothriochloa insculpta</i>	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0
<i>Bothriochloa radicans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bothriocline fusca</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bothriocline longipes</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
<i>Bourreria nemoralis</i>	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
<i>Bourreria petiolaris</i>	0	0	1	0	1	1	1	0	1	1	0	0	0	0	0	0
<i>Bourreria teitensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bowiea volubilis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Bracharia serpens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brachiaria bovonei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Brachiaria brizantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Brachiaria chusqueoides</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Brachiaria decumbens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brachiaria deflexa</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Brachiaria dictyoneura</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brachiaria eruciformis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brachiaria jubata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Brachiaria leersioides</i>	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Brachiaria leucacrantha</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brachiaria lindiensis</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Brachiaria ovalis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brachiaria reptans</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Brachiaria semiundulata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Brachiaria serrata</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Brachiaria serrifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brachiaria subquadripara</i>	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Brachiaria umbratilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Brachiaria xantholeuca</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brachychiton acerifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brachychiton bidwillii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Brachycorythis buehneri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brachycorythis kalbreyeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brachycorythis ovata</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0

<i>Brachycorythis pleistophylla</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Brachycorythis tenuior</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brachylaena huillensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Brachylaena huillensis</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1
<i>Brachypodium flexum</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Brachystegia spiciformis</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Brachystelma johnstonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brackenridgea zanguebarica</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Brassica carinata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brassica juncea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brassica rapa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Breonadia microcephala</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Breonadia salicina</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Bridelia atroviridis</i>	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
<i>Bridelia cathartica</i>	1	0	1	0	0	1	1	1	1	1	0	0	0	0	0	0
<i>Bridelia micrantha</i>	1	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0
<i>Bridelia micrantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0

<i>Bridelia scleroneura</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bridelia taitensis</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bridelia taitensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Brillantaisia cicatricosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brillantaisia madagascariensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brillantaisia nyanzarum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brillantaisia owariensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brillantaisia patula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brillantaisia vogeliana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bromus leptoclados</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
<i>Brownleea parviflora</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Brucea antidysenterica</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
<i>Brucea macrocarpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brugmansia suaveolens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bruguiera gymnorhiza</i>	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
<i>Bryodesma caffrorum</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Bryodesma wightii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bryophyllum proliferum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Buchnera capitata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Buchnera hispida</i>	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1

<i>Buchnera leptostachya</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Buchnera nuttii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Buddleja polystachya</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Buddleja pulchella</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Bulbine abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Bulbophyllum bequaertii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bulbophyllum cochleatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bulbophyllum distans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bulbophyllum encephalodes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bulbophyllum falcatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bulbophyllum intertextum</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Bulbophyllum josephii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bulbophyllum mahonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bulbophyllum maximum</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Bulbophyllum scaberulum</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Bulbophyllum schlechteri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Bulbostylis atrosanguinea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bulbostylis barbata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bulbostylis boeckleriana</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Bulbostylis filamentosa</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Bulbostylis hispidula</i>	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
<i>Bulbostylis pilosa</i>	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Buttonia natalensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Buttonia natalensis</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cadaba barbigera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cadaba carneo-viridis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Cadaba elaeagnoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cadaba farinosa</i>	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Cadaba gillettii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cadaba glandulosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cadaba heterotricha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cadaba mirabilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cadaba rotundifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cadaba ruspolii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cadaba tomentosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

<i>Cadia purpurea</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Caesalpinia bonduc</i>	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0
<i>Caesalpinia decapetala</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Caesalpinia insolita</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Caesalpinia pulcherrima</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Caesalpinia trothae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Caesalpinia volkensis</i>	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
<i>Calamagrostis epigejos</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Calamagrostis hedbergii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Calanthe sylvatica</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Callitriche stagnalis</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Callopsiopsis volkensis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Calodendrum capense</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Calophyllum inophyllum</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Calotropis procera</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Calpurnia aurea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Calycosiphonia spathicalyx</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Calyptrotheca taitensis</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Calypotrotheca somalensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Calypotrotheca taitensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Campanula edulis</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Campanula keniensis</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
<i>Camptolepis ramiflora</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Campylospermum scheffleri</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Canarina abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Canarina eminii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Canavalia cathartica</i>	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
<i>Canavalia rosea</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Canavalia virosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Canscora decussata</i>	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
<i>Canthium dyscriton</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Canthium fadenii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Canthium glaucum</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Canthium gueinzii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Canthium keniense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Canthium kilifiense</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Canthium lactescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Canthium mombazense</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Canthium oligocarpum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Canthium phyllanthoideia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Canthium pseudosetiflorum</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Canthium pseudoverticillatum</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Canthium schimperianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Capparis erythrocarpos</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Capparis fascicularis</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Capparis sepiaria</i>	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0
<i>Capparis tomentosa</i>	1	0	0	1	0	0	0	1	1	1	1	0	0	0	0	0
<i>Capparis viminea</i>	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
<i>Capsella bursa-pastoris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Caralluma acutangulata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Caralluma baldratii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Caralluma dicapuae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Caralluma foetida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Caralluma gracilipes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Caralluma priogonium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Caralluma russelliana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Caralluma somaliea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Caralluma turneri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cardamine africana</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Cardamine hirsuta</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Cardamine obliqua</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cardiospermum corindum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cardiospermum grandiflorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cardiospermum halicacabum</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Cardiospermum macrobotrys</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carduus afromontanus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carduus afromontanus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carduus chamaecephalus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carduus keniensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carduus millefolius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carduus nyassanus</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0

<i>Carduus ruwenzoriensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carduus schimperi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carduus sylvarum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex bequaertii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex chlorosaccus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Carex conferta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex fischeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Carex johnstonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex lycurus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex monostachya</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex petitiiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex runssoroensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex simensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carissa edulis</i>	1	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1
<i>Carissa tetramera</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Carpha angustissima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carphalea glaucescens</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carpodiptera africana</i>	0	0	1	0	1	1	0	0	1	1	0	0	0	0	0	0
<i>Carpolobia goetzei</i>	0	0	1	0	1	0	0	1	1	1	0	0	0	0	0	0
<i>Carvalhoa campanulata</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0

<i>Casearia battiscombei</i>	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
<i>Casearia gladiiformis</i>	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0
<i>Casearia runssorica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Casimiroa edulis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cassia abbreviata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Cassia abbreviata</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Cassia afrodistula</i>	0	0	1	0	1	0	0	0	1	1	0	0	0	0	0	0
<i>Cassia didymobotrya</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
<i>Cassia floribunda</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Cassia hildebrandtii</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Cassia italica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cassia kirkii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cassia longiracemosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cassia mimosoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
<i>Cassia nigricans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cassia occidentalis</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cassia petersiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cassine aquifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cassipourea celastroides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Cassipourea euryoides</i>	1	0	1	0	1	1	0	1	1	1	0	0	0	0	0	0

<i>Cassipourea gummiflua</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cassipourea gummiflua</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Cassipourea malosana</i>	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Cassipourea rotundifolia</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Cassipourea ruwensorensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cassytha filiformis</i>	1	0	1	0	0	1	1	1	1	1	0	0	1	0	0	0
<i>Catha edulis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Catharanthus roseus</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Catunaregam nilotica</i>	0	0	1	0	1	1	0	1	0	1	0	0	0	0	0	0
<i>Catunaregam spinosa</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Caucalis incognita</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Caucalis melanantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Caucanthus auriculatus</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Caylusea abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Celosia schweinfurthiana</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Celosia anthelminthica</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Celosia argentea</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Celosia hastata</i>	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0

<i>Celosia polystachia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Celosia schweinfurthiana</i>	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0
<i>Celosia stuhlmanniana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Celosia trigyna</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Celtis africana</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Celtis australis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Celtis durandii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Celtis gomphophylla</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Celtis integrifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Celtis mildbraedii</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Celtis philipensis</i>	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0
<i>Celtis soyauxii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Celtis toka</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cenchrus biflorus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cenchrus ciliaris</i>	0	0	0	1	0	0	0	1	1	0	0	0	0	0	1	1
<i>Cenchrus macrourus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cenchrus mezianus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cenchrus pennisetiformis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cenchrus polystachios</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Cenchrus purpureus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cenchrus setaceus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cenchrus setigerus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cenchrus squamulatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cenchrus stramineus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Centella asiatica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Centemopsis kirkii</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cephalaria pungens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cephalocroton cordofanus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cerastium adnivale</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cerastium afromontanum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cerastium indicum</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Cerastium octandrum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ceratophyllum demersum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ceratotheca sesamoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ceropegia succulenta</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ceropegia abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Ceropegia albisepta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Ceropegia ampliata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Ceropegia ballyana</i>	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
<i>Ceropegia brownii</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Ceropegia denticulata</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
<i>Ceropegia foetida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ceropegia lugardiae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ceropegia meyeri-johannis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Ceropegia nilotica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ceropegia nilotica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Ceropegia powysii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ceropegia seticorona</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Ceropegia somalensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ceropegia stenoloba</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ceropegia succulenta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Chaenomeles speciosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chaetachme aristata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Chamaeangis odoratissima</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Chamaeangis vesicata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Chamaecrista absus</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0

<i>Chamaecrista fallacina</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Chamaecrista kirkii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chamaecrista mimosoides</i>	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Chamaecrista nigricans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chamaecrista telfairiana</i>	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
<i>Chamaecrista trichopoda</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chamaecrista usambarensis</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Chamaecrista hildebrandtii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chascanum hildebrandtii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chascanum marrubiiifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chasmanthera dependens</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chassalia cristata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chassalia kenyensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Chassalia parvifolia</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Chassalia subochreatea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Chassalia umbraticola</i>	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Chazaliella abrupta</i>	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0
<i>Cheilanthes bergiana</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Cheilanthes farinosa</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Cheilanthes hirta</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Cheilanthes inaequalis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cheilanthes marantae</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Cheilanthes multifida</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Cheilanthes multifida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Cheilanthes quadripinnata</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Cheilanthes tecta</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Cheilanthes viridis</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Chenopodium album</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chenopodium ambrosioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chenopodium fasciculosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chenopodium murale</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chenopodium opulifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Chenopodium procerum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chenopodium pumilio</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chenopodium schraderianum</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Chionanthus battiscombei</i>	0	0	0	0	0	1	0	0	0	0	1	0	0	1	1	0
<i>Chionanthus mildbraedii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chironia elgonensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chloachne oplismenoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chloris gayana</i>	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Chloris mossambicensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chloris pycnothrix</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chloris roxburghiana</i>	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0
<i>Chloris virgata</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chlorophytum affine</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chlorophytum blepharophyllum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chlorophytum cameronii</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

<i>Chlorophytum comosum</i>	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0
<i>Chlorophytum elgonense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Chlorophytum filipendulum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chlorophytum gallabatense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chlorophytum macrophyllum</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
<i>Chlorophytum silvaticum</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Chlorophytum somalense</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Chlorophytum sparsiflorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chlorophytum subpetiolatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chlorophytum suffruticosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chlorophytum sylvaticum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chlorophytum tenuifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

<i>Chlorophytum tuberosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Chlorophytum viridescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chlorophytum zavattarii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Christella dentata</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Christella gueinziana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Christella hispidula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chrysanthellum indicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chrysophyllum albidum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chrysophyllum delevoyi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chrysophyllum gorungosanum</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Chrysophyllum viridifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
<i>Chrysopogon aucheri</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Chrysopogon plumulosus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chrysopogon serrulatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chytranthus obliquinervis</i>	0	0	1	0	1	1	1	1	0	0	0	0	0	0	0	0

<i>Chytranthus</i>																
<i>prieurianus</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Cineraria deltoidea</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Cineraria grandiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cineraria</i>																
<i>kilimandischarica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cirsium buchwaldii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cirsium vulgare</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cissampelos mucronata</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cissampelos pareira</i>	0	0	1	1	1	0	0	1	1	1	0	0	0	0	1	0
<i>Cissus aphylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cissus aralioides</i>	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0
<i>Cissus cactiformis</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Cissus humbertii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cissus intergrifolia</i>	0	0	1	0	1	1	0	1	1	1	0	0	0	0	0	0
<i>Cissus oliveri</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cissus petiolata</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Cissus quadrangularis</i>	0	1	0	0	0	1	0	1	1	1	0	0	0	0	0	0
<i>Cissus quinquangularis</i>	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
<i>Cissus rotundifolia</i>	1	1	1	0	0	1	0	1	1	1	0	0	0	0	0	0
<i>Cissus sciaphila</i>	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0

<i>Cissus sylvicola</i>	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0
<i>Cistanche tubulosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Citrullus colocynthis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cladostemon kirkii</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Clausena anisata</i>	0	0	0	0	1	0	0	1	0	1	1	0	0	0	1	1
<i>Clematis brachiata</i>	1	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0
<i>Clematis simensis</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Clematopsis scabiosifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Cleome allamani</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cleome angustifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cleome brachycarpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cleome briquetii</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Cleome gynandra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cleome hirta</i>	1	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0
<i>Cleome monophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cleome parvipetala</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cleome scaposa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cleome schimperi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cleome silvatica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cleome tenella</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Cleome usambarica</i>	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0
<i>Clerodendrum acerbianum</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Clerodendrum buchholzii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Clerodendrum capitatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Clerodendrum cephalanthum</i>	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0
<i>Clerodendrum discolor</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Clerodendrum formicarum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Clerodendrum glabrum</i>	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0
<i>Clerodendrum hildebrandtii</i>	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
<i>Clerodendrum incisum</i>	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0
<i>Clerodendrum johnstonii</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Clerodendrum melanocrater</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Clerodendrum myricoides</i>	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	1
<i>Clerodendrum robustum</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0

<i>Clerodendrum rotundifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Clerodendrum silvanum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Clerodendrum tricholobum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Clidemia hirta</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Cliffortia nitidula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Clinopodium abyssinicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Clinopodium uhligii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Clitoria ternatea</i>	1	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Clutia abyssinica</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1
<i>Clutia kilimandischarica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Clutia lanceolata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Cnestis mildbraedii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cobaea scandens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Coccinia adoensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Coccinia barteri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Coccinia grandiflora</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Coccinia grandis</i>	1	0	0	0	0	1	0	1	1	1	0	0	0	0	1	0
<i>Coccinia trilobata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

<i>Cocculus hirsutus</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cocculus pendulus</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Coffea eugenoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Coffea pseudozanguebariae</i>	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0
<i>Coffea sessiliflora</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Coix lacryma-jobi</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cola greenwayi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Cola greenwayi</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Cola minor</i>	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Cola pseudoclavata</i>	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
<i>Cola uloloma</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Coldenia procumbens</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Coleochloa abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Coleus djalensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Coleus lactiflorus</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Colubrina asiatica</i>	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
<i>Colutea abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Combretum aculeatum</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Combretum adenogonium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Combretum apiculatum</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Combretum butylosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Combretum capituliflorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Combretum chionanthoides</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Combretum collinum</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Combretum constrictum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Combretum exalatum</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Combretum falcatum</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Combretum goetzei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Combretum hereroense</i>	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0
<i>Combretum homaloides</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Combretum illairii</i>	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0
<i>Combretum molle</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Combretum molle</i>	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0
<i>Combretum mossambicense</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Combretum padoides</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Combretum paniculatum</i>	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0

<i>Combretum pentagonum</i>	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0
<i>Combretum psidioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Combretum schumannii</i>	1	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0
<i>Combretum zeyheri</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Commelina africana</i>	0	1	0	0	0	0	0	0	0	1	1	0	1	0	1	1
<i>Commelina albescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commelina albiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commelina aspera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commelina benghalensis</i>	0	1	1	1	0	0	0	1	1	1	1	1	1	0	0	1
<i>Commelina bracteosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Commelina bracteosa</i>	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Commelina capitata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commelina diffusa</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Commelina eckloniana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Commelina elgonensis</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commelina erecta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commelina foliacea</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0
<i>Commelina foliacea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Commelina forskalaei</i>	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0

<i>Commelina imberbis</i>	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Commelina imberbis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Commelina latifolia</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commelina luggardii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commelina petersii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commelina purpurea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commelina reptans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Commelina subulata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commelina velutina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commicarpus helenae</i>	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Commicarpus pedunculatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commicarpus plumbagineus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Commicarpus stellatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commiphora africana</i>	1	1	0	0	0	1	1	0	1	0	0	0	0	0	0	0
<i>Commiphora africana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Commiphora baluensis</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commiphora baluensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Commiphora boiviniana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Commiphora boranensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commiphora bruceae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commiphora campestris</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Commiphora candidula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commiphora confusa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commiphora edulis</i>	1	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0
<i>Commiphora eminii</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commiphora eminii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Commiphora flaviflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commiphora habessinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commiphora holtziana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Commiphora holtziana</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commiphora incisa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commiphora kataf</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commiphora kua</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commiphora lindensis</i>	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0
<i>Commiphora madagascariensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commiphora myrrha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Commiphora oblongifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commiphora obovata</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Commiphora ovalifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commiphora paolii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commiphora rostrata</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commiphora samharensis</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commiphora schimperi</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commiphora terebinthina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commiphora unilobata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Commiphora zanzibarica</i>	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
<i>Commiphora zimmermannii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
<i>Coniogramme africana</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Connarus longistipitatus</i>	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Conostomium kenyense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Conostomium quadrangulare</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Convolvulus kilimandschari</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Convolvulus rhyniospermus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Convolvulus sagittatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Convolvulus siculus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Conyza aegyptiaca</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Conyza attenuata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Conyza bonariensis</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Conyza clarenceana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Conyza floribunda</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
<i>Conyza hochstetteri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Conyza newii</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Conyza pallidiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Conyza schimperi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Conyza steudelii</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Conyza stricta</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Conyza subscaposa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Conyza sumatrensis</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Conyza tigrensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Conyza vernonioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Conyza volkensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Conyza welwitschii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Coptosperma graveolens</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Coptospermum drumondii</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Coptospermum nigrescens</i>	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
<i>Corallocarpus epigaeus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Corallocarpus schimperi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Corbichonia decumbens</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Corchorus aestuans</i>	0	0	1	0	1	1	0	0	1	0	0	0	0	0	0	0
<i>Corchorus baldaccii</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Corchorus olitorius</i>	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Corchorus pseudocapsularis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Corchorus tridens</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Corchorus trilocularis</i>	0	0	1	1	0	0	0	1	1	0	0	0	1	0	0	0
<i>Cordia abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cordia africana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Cordia crenata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cordia faulknerae</i>	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0

<i>Cordia goetzei</i>	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0
<i>Cordia guineensis</i>	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0
<i>Cordia millenii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cordia monoica</i>	1	1	0	0	0	1	0	1	1	0	1	0	0	0	0	0
<i>Cordia ovalis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Cordia sinensis</i>	0	1	0	1	0	0	0	0	1	0	0	0	1	0	0	0
<i>Cordia somaliensis</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Cordia subcordata</i>	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
<i>Cordyla africana</i>	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
<i>Cornus volkensii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Corrigiola capensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Corrigiola littoralis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Corydalis cornuta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Corydalis mildbraedii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Costus spectabilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cotula abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Cotula anthemoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cotyledon barbeyi</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Cotyledon leucophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cotyledon orbiculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Courtoisina assimilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crabbea velutina</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Craibia brevicaudata</i>	1	0	0	0	0	0	0	1	0	1	0	1	0	1	0	0
<i>Craibia brownii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
<i>Craibia zimmermannii</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Crambe africana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crambe hispanica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crambe kilimandscharica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crassocephalum montuosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crassocephalum picridifolium</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crassocephalum rubens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crassocephalum ×picridifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crassocephalum crepidioides</i>	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1
<i>Crassocephalum mannii</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Crassocephalum mannii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Crassocephalum montuosum</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1

<i>Crassocephalum</i> <i>picridifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Crassocephalum rubens</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
<i>Crassocephalum</i> <i>vitellinum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crassula alba</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Crassula alsinoides</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0
<i>Crassula granvikii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crassula nodulosa</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Crassula rhodesica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crassula schimperi</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Crassula sp</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crassula vaginata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crassula volkensii</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Craterispermum</i> <i>schweinfurthii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Craterostigma hirsutum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Craterostigma</i> <i>plantagineum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Craterostigma pumilum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crateva adansonii</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Cremaspora triflora</i>	0	0	0	0	1	1	1	1	1	1	0	1	0	0	0	0

<i>Crepidomanes chevalieri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crepidomanes melanotrichum</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Crepidomanes ramitrichum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crepidorhopalon rupestris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crepidorhopalon whytei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crepis carbonaria</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Crepis newii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crepis oliverana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crepis rueppellii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cribbia brachyceras</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crinum macowanii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crinum piliferum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Crinum stuhlmannii</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Crocasmia aurea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crossandra massaica</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Crossandra mucronata</i>	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Crossandra nilotica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crossandra pungens</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

<i>Crossandra stenandrium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crossandra stenostachya</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crossandra subacaulis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Crossandra tridentata</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Crossopteryx febrifuga</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Crotalaria agatiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Crotalaria albalotes</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Crotalaria alexanders</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Crotalaria anthyllopsis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crotalaria axillaris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Crotalaria axillaris</i>	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
<i>Crotalaria balbi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crotalaria barkae</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Crotalaria brevidens</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
<i>Crotalaria cephalotes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crotalaria chrysochlora</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Crotalaria cleomifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crotalaria comanestiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Crotalaria cylindrica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crotalaria deflersii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Crotalaria deserticola</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Crotalaria dewildemania</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Crotalaria distantiflora</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Crotalaria emarginata</i>	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
<i>Crotalaria emarginella</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crotalaria fascicularis</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Crotalaria glauca</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Crotalaria goodiformis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Crotalaria goodiiformis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
<i>Crotalaria grata</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Crotalaria greenwayi</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crotalaria incana</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1
<i>Crotalaria jacksonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crotalaria karagwensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crotalaria keniensis</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Crotalaria laburnifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Crotalaria laburnoides</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Crotalaria labylerii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Crotalaria</i>																
<i>lachnocarpoides</i>	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Crotalaria lachnophora</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Crotalaria lanceolata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crotalaria lascicularis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crotalaria latiformis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Crotalaria lebrunii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crotalaria</i>																
<i>lukwangulensis</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Crotalaria massaiensis</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Crotalaria mauensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Crotalaria microcarpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crotalaria natalitia</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1
<i>Crotalaria natalitia</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Crotalaria oocarpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Crotalaria pallida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crotalaria podocarpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crotalaria polysperma</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crotalaria</i>																
<i>pychnostachya</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crotalaria recta</i>	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0

<i>Crotalaria retusa</i>	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
<i>Crotalaria saltiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crotalaria scassellatii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crotalaria singueana</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Crotalaria spinosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crotalaria uguenensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crotalaria vallicola</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Crotalaria vasculosa</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Crotalaria vatkeana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Crotalaria verdcourtii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Crotalaria goodiiformis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Croton alienus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Croton dichogamus</i>	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1
<i>Croton macrostachyus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Croton megalocarpoides</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Croton megalocarpus</i>	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	1
<i>Croton menyharthii</i>	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Croton persicaria</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Croton polytrichus</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0

<i>Croton</i>																
<i>pseudopulchellus</i>	1	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0
<i>Croton somalensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Croton sylvaticus</i>	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
<i>Cryptolepis apiculata</i>	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Cryptolepis hypoglauca</i>	0	0	1	0	1	1	0	0	1	1	0	0	0	0	0	0
<i>Cryptolepis oblongifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cryptolepis sinensis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Cryptomeria japonica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cryptotaenia africana</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Ctenitis cirrhosa</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Ctenium somalense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ctenolepis cerasiformis</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cucumella kelleri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cucumella robbecchii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cucumis aculeatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cucumis dipsaceus</i>	0	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0
<i>Cucumis ficifolius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cucumis figarei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cucumis humifructus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Cucumis oreosyce</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Cucumis prophetarum</i>	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
<i>Cucumis sacleuxii</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Culcasia falcifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Culcasia scandens</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Curroria volubilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cuscuta campestris</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
<i>Cuscuta hyalina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cuscuta kilimanjari</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
<i>Cuscuta planiflora</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
<i>Cussonia arborea</i>	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Cussonia holstii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Cussonia holstii</i>	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Cussonia spicata</i>	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0
<i>Cussonia spicata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Cussonia zimmermannii</i>	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0
<i>Cyanotis foecunda</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyanotis foecunda</i>	0	1	0	0	0	0	0	0	0	1	1	0	1	0	1	0
<i>Cyanotis lanata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyanotis longifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyanotis vaga</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Cyanthillium cinereum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyathea humilis</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Cyathea manniana</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Cyathogyne bussei</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Cyathula coriacea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyathula cylindrica</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
<i>Cyathula kirkii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyathula orthacantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyathula polycephala</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Cyathula uncinulata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyathula uncinulata</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
<i>Cycas thouarsii</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Cyclantheropsis parviflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyclocheilon eriantherum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyclosorus dentatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Cyclosorus madagascariensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyclosorus patens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Cyclosorus quadrangularis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Cycniopsis humifusa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cycniopsis obtusifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Cycnium adonense</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Cycnium cameronianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cycnium erectum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cycnium herzfeldianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cycnium jamesii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cycnium recurvum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cycnium tenuisectum</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Cycnium tubulosum</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
<i>Cycnium veronicifolium</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
<i>Cycnium volkensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Cylicomorpha parviflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cymbopogon caesius</i>	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	1
<i>Cymbopogon nardus</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
<i>Cymbopogon pospischilii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cymbopogon schoenanthus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cynanchum abyssinicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Cynanchum altiscandens</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Cynanchum defoliascens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cynanchum gerrardii</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Cynanchum hastifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cynanchum stoloniferum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cynanchum tetrapterum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
<i>Cynanchum validum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cynanchum viminale</i>	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
<i>Cynodon dactylon</i>	1	1	1	0	0	0	0	0	1	0	0	0	1	0	0	1
<i>Cynodon nlemfuensis</i>	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0
<i>Cynodon plectostachyus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cynoglossum amplifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cynoglossum coeruleum</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1
<i>Cynoglossum geometricum</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Cynoglossum lanceolatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Cynometra lukei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cynometra suaheliensis</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Cynometra webberi</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Cynorkis anacamptoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cynorkis buchwaldiana</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Cynorkis kassnerana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cynorkis kirkii</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Cyperus alopecuroides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus alternifolius</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus articulatus</i>	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus aterrimus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus bulbosus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus comosipes</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Cyperus compressus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus cuspidatus</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Cyperus cyperoides</i>	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Cyperus denudatus</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Cyperus dereilema</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Cyperus dichroostachyus</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

<i>Cyperus difformis</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus distans</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus dives</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Cyperus dubius</i>	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
<i>Cyperus exaltatus</i>	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
<i>Cyperus fischerianus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus glaucophyllus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus haspan</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Cyperus hemisphaericus</i>	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Cyperus immensus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Cyperus impubes</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Cyperus involucratus</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Cyperus kilimandscharicus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Cyperus laevigatus</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus latifolius</i>	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Cyperus longibracteatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus longus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus luteus</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0

<i>Cyperus maculatus</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus maranguensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Cyperus maritimus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus meeboldii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus merkeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Cyperus michelianus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus neoschimperii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus niveus</i>	1	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0
<i>Cyperus oblongoincrassatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus obtusiflorus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Cyperus papyrus</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus plateilema</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus prolifer</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Cyperus pseudo-vestitus</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus pulchellus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus rigidifolius</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
<i>Cyperus rohlfsii</i>	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Cyperus rotundus</i>	0	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0
<i>Cyperus rubicundus</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0

<i>Cyperus schimperianus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus schweinitzii</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus sesquiflorus</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Cyperus squarrosus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus tenax</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Cyperus teneriffae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Cyperus undulatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyperus usitatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Cyperus zollingeri</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Cyphia glandulifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Cyphomandra betacea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyphostemma adenocarpum</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyphostemma adenocaulis</i>	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
<i>Cyphostemma bambuseti</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
<i>Cyphostemma cyphopetalum</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Cyphostemma duparquetii</i>	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0

<i>Cyphostemma heterotrichum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyphostemma hildebrandtii</i>	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
<i>Cyphostemma jiguu</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyphostemma junceum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyphostemma kilimandscharicum</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1
<i>Cyphostemma kirkianum</i>	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0
<i>Cyphostemma lentianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyphostemma maranguense</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Cyphostemma nierense</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
<i>Cyphostemma nodiglandulosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Cyphostemma serpens</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyphostemma ukerewense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyphostemma zimmermannii</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Cyrtomium caryotideum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Cyrtorchis arcuata</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Cyrtorchis brownii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyrtorchis sedenii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Cystopteris diaphanum</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
<i>Cystopteris fragilis</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Cystopteris viridula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dactyloctenium aegyptium</i>	1	1	1	1	0	0	0	1	1	1	0	0	0	0	0	0
<i>Dactyloctenium aristatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dactyloctenium bogdanii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dactyloctenium geminatum</i>	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Dactyloctenium giganteum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dactyloctenium macroblephara</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dactyloctenium scindicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dalbergia boehmii</i>	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
<i>Dalbergia bracteolata</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Dalbergia lactea</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0

<i>Dalbergia melanoxylon</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0
<i>Dalbergia microphylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Dalbergia vacciniifolia</i>	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0
<i>Dalechampia scandens</i>	0	0	1	0	1	0	0	1	1	1	0	0	0	0	0	0
<i>Dalechampia trifoliata</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Dasylepis integra</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Dasysphaera prostrata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dasysphaera tomentosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Datura metel</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Datura stramonium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Datura suaveolens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Daucus carota</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Davallia chaerophylloides</i>	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0
<i>Davallia denticulata</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Deinbollia borbonica</i>	0	0	1	0	1	1	1	1	1	1	0	0	0	0	0	0
<i>Deinbollia kilimandscharica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
<i>Delamerea procumbens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Delonix elata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Delonix elata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Delonix regia</i>	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Delphinium macrocentron</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dendrosenecio brassiciformis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dendrosenecio cheranganiensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dendrosenecio elgonensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dendrosenecio keniensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dendrosenecio keniodendron</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Deparia boryana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Desmidorchis acutangula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Desmodium adscendens</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Desmodium barbatum</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Desmodium gangeticum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Desmodium repandum</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0
<i>Desmodium salicifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Desmodium tortuosum</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Desmodium triflorum</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Desmodium umbellatum</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Desmodium velutinum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dialium orientale</i>	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Dianthoseris schimperi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Diaphananthe fragrantissima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Diaphananthe lorifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Diaphananthe odoratissima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Diaphananthe rohrii</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Diaphananthe rutila</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Diaphananthe subsimplex</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Diaphananthe vesicata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Diaphananthe xanthopollinia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dichanthium foveolatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dichanthium insculptum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1

<i>Dichapetalum eickii</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Dichapetalum fadenii</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Dichapetalum madagascariense</i>	0	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0
<i>Dichapetalum ruhlandii</i>	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
<i>Dichapetalum zenkeri</i>	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Dichondra repens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dichrocephala chrysanthemifolia</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1
<i>Dichrocephala integrifolia</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Dichrostachys cinerea</i>	1	1	1	0	0	1	0	1	1	1	0	0	0	0	0	0
<i>Dichrostachys cinerea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Dicliptera albicaulis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dicliptera colorata</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
<i>Dicliptera cordibracteata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dicliptera laxata</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
<i>Dicliptera napierae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Dicliptera paniculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dicliptera verticillata</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Diclis bambuseti</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Dicoma tomentosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dicranolepis usambarica</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Dicranopteris linearis</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Didymochlaena truncatula</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0
<i>Didymochlaena truncatula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Didymodon revolutus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Didymodoxa caffra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Didymosalpinx norae</i>	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
<i>Dierama cupuliflorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dierama pendulum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dierama prolongata</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
<i>Dietes iridioides</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Digera muricata</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Digitalis purpurea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Digitaria abyssinica</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Digitaria argyrotricha</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Digitaria diagonalis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Digitaria longiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Digitaria macroblephara</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Digitaria milanjana</i>	0	0	1	0	0	0	0	1	1	1	0	0	1	0	0	0
<i>Digitaria pearsonii</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Digitaria pennata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Digitaria rivae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Digitaria scalarum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Digitaria ternata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Digitaria velutina</i>	0	0	0	1	0	0	0	1	1	0	1	0	0	0	1	0
<i>Diheteropogon amplexans</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Dinebra (Drake-Brockmania)</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinebra polycarpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinebra retroflexa</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Diodia aulacosperma</i>	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0
<i>Diodia sarmentosaSw.</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Dioscorea astericus</i>	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0
<i>Dioscorea bulbifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dioscorea dumetorum</i>	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0
<i>Dioscorea odoratissima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Dioscorea quartiniana</i>	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
<i>Dioscorea sansibarensis</i>	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0
<i>Dioscorea schimperiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dioscoreophyllum volkensii</i>	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0
<i>Diospyros greenwayi</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Diospyros abyssinica</i>	0	0	0	0	1	1	1	1	1	1	0	0	0	0	1	0
<i>Diospyros bussei</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Diospyros consolatae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Diospyros consolatae</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Diospyros ferrea</i>	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
<i>Diospyros greenwayi</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Diospyros kabuyeana</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Diospyros loureiriana</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Diospyros mespiliformis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Diospyros mespiliformis</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Diospyros natalensis</i>	1	1	0	0	1	0	0	0	0	1	0	0	0	1	0	0
<i>Diospyros scabra</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Diospyros shimbaensis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Diospyros squarrosa</i>	0	0	1	0	1	1	0	1	1	1	0	0	0	0	0	0
<i>Dipcadi viride</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Diphasiopsis fadenii</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0
<i>Diplachne fusca</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Diplazium velaminosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Diplocyclos palmatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Diplolophium africanum</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Diplolophium diplolophioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Diplostigma canescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dipsacus pinnatifidus</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Disa aconitoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Disa deckenii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Disa erubescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Disa fragrans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Disa ochrostachya</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Disa scutellifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Disa stairsii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Discopodium eremanthum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Discopodium penninervium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Disperis anthoceros</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Disperis aphylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Disperis dicerochila</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Disperis kilimanjarica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Disperis nemorosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Disperis reichenbachiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dissotis brazzae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dissotis canescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dissotis debilis</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Dissotis irvingiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Dissotis rotundifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Dissotis senegambiensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dissotis speciosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dobera glabra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Dobera glabra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dobera loranthifolia</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Dodonaea angustifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
<i>Dodonaea viscosa</i>	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
<i>Dolichos kilimandscharicus</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Dolichos luticola</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Dolichos oliveri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Dolichos sericeus</i>	1	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1
<i>Dolichos trilobus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Dombeya burgessiae</i>	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0
<i>Dombeya dawei</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Dombeya goetzenii</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Dombeya kirkii</i>	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1
<i>Dombeya kirkii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Dombeya rotundifolia</i>	1	1	0	0	0	0	0	0	0	0	1	0	1	0	1	1
<i>Dombeya taylori</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Dombeya torrida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dopatrium baoulense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Doripteris kirkii</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Dorstenia afromontana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dorstenia barnimiana</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Dorstenia brownii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dorstenia hildebrandtii</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Dorstenia thikaensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dorstenia zanzibarica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Doryopteris concolor</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Doryopteris concolor</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Doryopteris kirkii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dovyalis abyssinica</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
<i>Dovyalis hispidula</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Dovyalis macrocalyx</i>	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0
<i>Dovyalis sp.</i>	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
<i>Dracaena afromontana</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Dracaena ellenbeckiana</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Dracaena fragrans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dracaena laxissima</i>	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
<i>Dracaena manii</i>	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
<i>Dracaena steudneri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Dregea abyssinica</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dregea rubicunda</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Dregea schimperi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Dregea stelostigma</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Drimia altissima</i>	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Drimia macrocarpa</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Drimiopsis botryoides</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0

<i>Droguetia debilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Droguetia iners</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Drosera burkeana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Drymaria cordata</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0
<i>Drynaria volkensii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dryoathyrium boryanum</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Dryopteris antarctica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dryopteris athamantica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dryopteris fadenii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dryopteris inaequalis</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Dryopteris kilemensis</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Dryopteris manniana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dryopteris pentheri</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Drypetes gerrardii</i>	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
<i>Drypetes natalensis</i>	1	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0
<i>Drypetes parvifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Drypetes parvifolia</i>	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Drypetes reticulata</i>	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0
<i>Drypetes usambarica</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Drypetes usambarica</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

<i>Dumasia villosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Duosperma crenatum</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Duosperma eremophilum</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Duosperma kilimandscharicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Duosperma longicalyx</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Duosperma pubescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Duranta repens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Dyschoriste clinopodioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dyschoriste depressa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dyschoriste hildebrandtii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dyschoriste keniensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dyschoriste mollis</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Dyschoriste multicaulis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dyschoriste nagchana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dyschoriste nobilior</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dyschoriste perrottetii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dyschoriste radicans</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Dyschoriste radicans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1

<i>Dyschoriste</i>																
<i>thunbergiiflora</i>	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Ecbolium amplexcaule</i>	0	0	0	0	1	1	1	1	1	1	0	0	0	1	0	0
<i>Ecbolium anisacanthus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ecbolium revolutum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Ecbolium striatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ecbolium subcordatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Echidnopsis sharpei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Echinochloa colona</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Echinochloa haploclada</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Echinochloa</i>																
<i>pyramidalis</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Echinops aberdaricus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Echinops amplexicaulis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Echinops angustilobus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Echinops eryngiifolius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Echinops hispidus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Echinops hoehnelii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Echiochilon</i>																
<i>lithospermoides</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eclipta prostrata</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Ectadiopsis oblongifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Edithcolea grandis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ehretia bakeri</i>	0	0	1	0	1	0	0	1	0	1	0	1	0	0	0	0
<i>Ehretia cymosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Ehretia teitensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Ehrharta abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Ehrharta erecta</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Ekebergia capensis</i>	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1
<i>Elachyptera parvifolia</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Elaeodendron buchananii</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Elaeodendron schlechterianum</i>	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0
<i>Elaeodendron schweinfurthianum</i>	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0
<i>Elaeodendron schweinfurthianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Elaphoglossum acrostichoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Elaphoglossum aubertii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Elaphoglossum deckenii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Elaphoglossum hybridum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Elaphoglossum lastii</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Elaphoglossum ruwenzorii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Elaphoglossum sabcinnamomeum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Elaphoglossum spatulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Elaphoglossum tanganjicense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Elatostema monticola</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Elatostema monticulum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Elatostema orientale</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eleusine indica</i>	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0
<i>Eleusine multiflora</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Elionurus muticus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Elionurus royleanus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ellipanthus hemandradenioides</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Ellipanthus madagascariensis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Elytraria acaulis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Elytraria minor</i>	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Embelia keniensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Embelia schimperi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Emelianthe panganensis</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
<i>Emex australis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Emilia coccinea</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Emilia discifolia</i>	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Emilia integrifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Emilia sagittata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Emilia somalensis</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Emilia ukambensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Empogona ovalifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Encephalartos hildebrandtii</i>	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0
<i>Endostemon camporum</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Endostemon camporus</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Endostemon gracilis</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Endostemon tereticaulis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Englerastrum djalense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Englerastrum scandens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Englerastrum schweinfurthii</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
<i>Englerina drummondii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Englerina heckmanniana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Englerina holstii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Englerina woodfordioides</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
<i>Englerophytum natalense</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Englerophytum oblanceolatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Enicostema axillare</i>	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0
<i>Enicostema hyssopifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Enneapogon brachystachyus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Enneapogon cenchroides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Enneapogon schimperanus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ensete edule</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ensete ventricosum</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Entada abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Entada gigas</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Entada leptostachya</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Entandrophragma angolense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Enteropogon barbatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Enteropogon macrostachyus</i>	0	1	1	1	0	0	0	1	1	0	1	0	0	0	0	0
<i>Enteropogon sechellensis</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Epilobium hirsutum</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Epilobium stereophyllum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Epipactis africana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Equisetum ramosissimum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eragrostis abrupens</i>	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Eragrostis aethiopica</i>	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
<i>Eragrostis aspera</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eragrostis braunii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Eragrostis caespitosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eragrostis cilianensis</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0

<i>Eragrostis ciliaris</i>	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0
<i>Eragrostis cylindriflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eragrostis exasperata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Eragrostis heteromera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Eragrostis hispida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Eragrostis macilenta</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Eragrostis namaquensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eragrostis olivacea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Eragrostis papposa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eragrostis patens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eragrostis pycnostachys</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eragrostis racemosa</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Eragrostis rigidior</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eragrostis schweinfurthii</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Eragrostis superba</i>	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0
<i>Eragrostis tenella</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Eragrostis tenuifolia</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Eremomastax speciosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Erianthemum dregei</i>	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0
<i>Erianthemum schelei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Erianthemum</i>																
<i>ulugurense</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Erica arborea</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Erica filago</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Erica mannii</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
<i>Erica rossii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Erica silvatica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Erica trimera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Erica whyteana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Erigeron floribundus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Erigeron trilobus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eriocaulon</i>																
<i>transvaalicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eriochloa fatmensis</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
<i>Eriochloa meyeriana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eriochloa nubica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eriochloa parvispiculata</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Eriochloa stapfiana</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Eriosema glomeratum</i>	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
<i>Eriosema juronianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Eriosema</i>																
<i>macrostipulum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eriosema montanum</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Eriosema nutans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eriosema psoraleoides</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
<i>Eriosema scioanum</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Eriosema shirensense</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Erucastrum arabicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Erythrina abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Erythrina abyssinica</i>	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1
<i>Erythrina burttii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Erythrina lysistemon</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Erythrina</i>																
<i>melanacantha</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Erythrina sacleuxii</i>	0	0	1	0	1	0	0	0	1	1	0	0	0	0	0	0
<i>Erythrocephalum</i>																
<i>marginatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Erythrococca atrovirens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Erythrococca bongensis</i>	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
<i>Erythrococca fischeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Erythrococca kirkii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0

<i>Erythrococca kirkii</i>	0	0	0	0	1	1	0	1	1	1	0	0	0	0	0	0
<i>Erythrococca pentagyna</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Erythrococca pubescens</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Erythrococca trichogyne</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Erythrophleum suaveolens</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Erythroxyllum emarginatum</i>	1	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0
<i>Erythroxyllum fischeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Erythroxyllum platyclados</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ethulia angustifolia</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Ethulia conyzoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ethulia scheffleri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Ethulia vernonioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euclea divinatorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Euclea divinatorum</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Euclea natalensis</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Euclea racemosa</i>	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0
<i>Euclea schimperi</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1

<i>Eugenia Taxon</i>	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0
<i>Eugenia capensis</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Eulalia polyneura</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eulophia petersii</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eulophia angolensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eulophia calantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eulophia chlorotica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eulophia cucullata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eulophia eustachya</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eulophia galeoloides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eulophia grantii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eulophia horsfallii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eulophia livingstoneana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eulophia odontoglossa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eulophia orthoplectra</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Eulophia ovalis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Eulophia paiveana</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Eulophia petersii</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Eulophia porphyroglossa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eulophia shupangae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Eulophia stachyodes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eulophia stenophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Eulophia streptopetala</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
<i>Eulophia tanganyikensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia acalyphoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia arabica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia breviarticulata</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Euphorbia brevicornu</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Euphorbia bussei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Euphorbia bussei</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia candelabrum</i>	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Euphorbia classenii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Euphorbia crotonoides</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Euphorbia cryptospinosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Euphorbia cuneata</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia cyparissoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia depauperata</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

<i>Euphorbia diminuta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia engleri</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Euphorbia euryops</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia friesiorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia gossypina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia grandicornis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia granulata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia heterochroma</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia heterophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia heterospina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia hirta</i>	0	0	1	1	0	1	0	1	1	0	0	0	1	0	0	0
<i>Euphorbia hypericifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia inaequilatera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia inaequilatera</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Euphorbia indica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia kalisana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia lavicola</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia lissosperma</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Euphorbia lophiosperma</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Euphorbia magnicapsula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia matabelensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia nyikae</i>	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0
<i>Euphorbia obovalifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Euphorbia pirottae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia polyantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia prostrata</i>	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0
<i>Euphorbia pseudogranti</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia quinquecostata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Euphorbia quinquecostata</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia repetita</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia robecchii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia samburuensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia scheffleri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Euphorbia scheffleri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Euphorbia schimperiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Euphorbia septentrionalis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia tescorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia tirucalli</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Euphorbia triaculeata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia turkanensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphorbia ugandensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Euphorbia wellbyi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euploca rariflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euploca strigosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eureiandra orientalis</i>	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0
<i>Euryops brownei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euryops chrysanthemoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euryops elgonensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euryops jacksonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Evolvulus alsinoides</i>	0	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0
<i>Exacum oldenlandioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Excoecaria</i>																
<i>madagascariensis</i>	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Exochaenium grande</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Exotheca abyssinica</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Fagara mildbraedii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Fagaropsis angolensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Fagaropsis angolensis</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
<i>Fagaropsis</i>																
<i>hildebrandtii</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Fagonia isotricha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Fagonia isotricha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Faidherbia albida</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Falkia canescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Farfugium japonicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Farsetia stenoptera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Farsetia undulicarpa</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Faurea rochetiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Faurea saligna</i>	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Faurea speciosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Feijoa sellowiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Felicia abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1

<i>Felicia hyssopifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Felicia muricata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Feretia apodanthera</i>	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Fernandoa magnifica</i>	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0
<i>Ferula communis</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Festuca abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ficinia filiformis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ficus amadiensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ficus asperifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ficus bubu</i>	0	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0
<i>Ficus bussei</i>	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0
<i>Ficus capensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ficus capreifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ficus cordata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ficus cyathistipula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ficus exasperata</i>	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
<i>Ficus glumosa</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ficus ingens</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ficus ingens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Ficus kitubalu</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Ficus lingua</i>	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
<i>Ficus lutea</i>	1	0	0	0	0	1	1	0	1	0	0	1	0	0	0	0
<i>Ficus lutea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Ficus mallotocarpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ficus natalensis</i>	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0
<i>Ficus ottoniifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ficus ovata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ficus polita</i>	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0
<i>Ficus populifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Ficus pseudomangifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ficus quibeba</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ficus salicifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Ficus sansibarica</i>	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0
<i>Ficus saussureana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ficus scassellatii</i>	1	0	0	0	0	1	1	0	1	1	1	0	0	0	0	0
<i>Ficus storthophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ficus stuhlmannii</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Ficus sur</i>	1	0	0	0	1	1	1	0	1	0	0	1	1	0	1	0
<i>Ficus sur</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Ficus sycomorus</i>	1	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0

<i>Ficus thonningii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Ficus thonningii</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Ficus tremula</i>	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
<i>Ficus urceolaris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ficus vallis-choudae</i>	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Ficus vasta</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ficus verruculosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ficus wakefieldii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Filicium decipiens</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Fimbristylis complanata</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Fimbristylis dichotoma</i>	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Fimbristylis ovata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Flabellaria paniculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Flacourtia indica</i>	0	0	1	0	0	0	0	1	1	1	0	0	0	0	1	0
<i>Flagellaria guineensis</i>	0	0	1	0	1	1	1	1	0	1	0	0	0	0	0	0
<i>Flemingia grahamiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Floscopa glomerata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Flueggea virosa</i>	1	0	1	0	1	1	1	1	1	1	0	0	0	0	0	0
<i>Forsskaolea viridis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Fragaria vesca</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Fraxinus pennsylvanica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Fuerstia africana</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Fuirena leptostachya</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Fuirena pubescens</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Fuirena stricta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Fuirena umbellata</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Fumaria abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Funtumia africana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Funtumia latifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Galega battiscombei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Galega lindblomii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Galiniera coffeoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Galiniera saxifraga</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Galinsoga parviflora</i>	0	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0
<i>Galium aparine</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Galium aparinoides</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1
<i>Galium ossirwaense</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Galium ruwenzoriense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Galium scioanum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Galium simense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Galium spurium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Galium thunbergianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Garcinia buchananii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Garcinia livingstonei</i>	1	0	1	0	1	1	1	1	0	1	1	0	0	0	0	0
<i>Garcinia volkensii</i>	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0
<i>Gardenia fiorii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gardenia jovis-tonantis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gardenia ternifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gardenia transvenulosa</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Gardenia volkensii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Geigeria acaulis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Geigeria alata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Geniosporum rotundifolium</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Geophila repens</i>	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
<i>Geranium aculeolatum</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Geranium arabicum</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
<i>Geranium elamellatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Geranium kilimandscharicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Geranium mascatense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Geranium ocellatum</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Geranium vagans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gerbera piloselloides</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
<i>Gerbera viridifolia</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Gerrardanthus lobatus</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0
<i>Ghikaea speciosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gigasiphon macrosiphon</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Girardinia bullosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Girardinia diversifolia</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1
<i>Gisekia pharnacoides</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Givotia gosai</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gladiolus ukambensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gladiolus dalenii</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Gladiolus goetzei</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Gladiolus natalensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Gladiolus newii</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Gladiolus pauciflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Gladiolus psittacinus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Gladiolus sulcatus</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Gladiolus ukambensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Gladiolus volkensii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gladiolus watsonioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Glebionis coronaria</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Glennia africana</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Glinus lotoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Glinus oppositifolius</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Glinus setiflorus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Globimetula braunii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gloriosa minor</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gloriosa simplex</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Gloriosa superba</i>	1	0	1	0	0	0	0	1	1	1	0	0	0	1	0	0
<i>Glossonema revoilii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Glycine wightii</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1
<i>Gmelina arborea</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gnaphalium declinatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Gnaphalium luteo-album</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Gnaphalium rubriflorum</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

<i>Gnaphalium undulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Gnaphalium unionis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gnidia apiculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gnidia glauca</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Gnidia involucrata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gnidia lamprantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gnidia latifolia</i>	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0
<i>Gnidia macrocephala</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Gnidia subcordata</i>	0	0	0	0	0	0	0	1	0	0	0	1	1	0	1	0
<i>Gnidia volkensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gomphia densiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gomphia likimensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gomphocarpus fruticosus</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Gomphocarpus integer</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Gomphocarpus kaessneri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Gomphocarpus physocarpus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gomphocarpus semilunatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0

<i>Gomphocarpus stenophyllus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Gomphocarpus truncatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Gomphrena celosioides</i>	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0
<i>Gonatopus boivinii</i>	0	0	1	0	1	1	0	1	1	1	0	0	0	0	0	0
<i>Gonatopus marattioides</i>	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
<i>Gonatopus petiolulatus</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Gongronema angolense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gossypioides kirkii</i>	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0
<i>Gossypium barbadense</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Gossypium kirkii</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Gossypium somalense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gouania longispicata</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
<i>Grandidiera boivinii</i>	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0
<i>Grevea eggelingii</i>	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
<i>Grewia kakothamnus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Grewia arborea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Grewia bicolor</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Grewia capitellata</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0

<i>Grewia densa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Grewia ectasicarpa</i>	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0
<i>Grewia fallax</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Grewia forbesii</i>	0	0	1	0	1	0	0	1	1	1	0	0	0	0	0	0
<i>Grewia glandulosa</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Grewia hexamita</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Grewia holstii</i>	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0
<i>Grewia lilacina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Grewia microcarpa</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Grewia mollis</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Grewia picta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Grewia plagiophylla</i>	0	0	1	0	1	1	0	1	1	1	0	0	0	0	0	0
<i>Grewia plagiophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Grewia similis</i>	0	1	0	0	0	0	0	0	0	0	0	1	1	0	1	0
<i>Grewia stuhlmannii</i>	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Grewia tembensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Grewia tenax</i>	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Grewia tephrodermis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Grewia trichocarpa</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Grewia tristis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Grewia truncata</i>	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0
<i>Grewia truncata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Grewia vaughanii</i>	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0
<i>Grewia villosa</i>	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0
<i>Guenthera amplexicaulis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Guettarda speciosa</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Guilleminea densa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Guizotia abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Guizotia jacksonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Guizotia reptans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Guizotia scabra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gunnera perpensa</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Gutenbergia boranensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
<i>Gutenbergia calycina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Gutenbergia cordifolia</i>	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1
<i>Gutenbergia fischeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gutenbergia fusca</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gutenbergia pembensis</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Gutenbergia rueppellii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gutenbergia tomentosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0

<i>Gymnanthemum auriculiferum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gymnema sylvestre</i>	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Gymnosporia acuminata</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Gymnosporia arbutifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gymnosporia gracilis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Gymnosporia putterlikoides</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Gymnosporia senegalensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gynandropsis gynandra</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Gynura colorata</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Gynura pseudochina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gynura rubens</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Gynura scandens</i>	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
<i>Gynura valeriana</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Gyrocarpus americanus</i>	0	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0
<i>Gyrocarpus hababensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Habenaria altior</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Habenaria cavatibrachia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Habenaria chirensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Habenaria cornuta</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Habenaria decorata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Habenaria egregia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Habenaria holubii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Habenaria humilior</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Habenaria indiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Habenaria keniensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Habenaria laurentii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Habenaria lindblomii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Habenaria linderi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Habenaria macrantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Habenaria malacophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Habenaria ndiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Habenaria petitiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Habenaria quartiniana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Habenaria trilobulata</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Habenaria tweedieae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Habenaria vaginata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Hackelochloa granularis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hagenia abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Halleria lucida</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Haplocarpha rueppellii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Haplocarpha schimperi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Haplocoelum foliosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Haplocoelum foliosum</i>	0	1	0	0	0	0	0	0	0	0	0	1	1	0	1	0
<i>Haplocoelum inopleum</i>	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0
<i>Haplopteris volkensisii</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Haplosciadium abyssinicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Harpachne schimperi</i>	0	1	0	0	0	0	0	0	0	1	0	0	1	0	1	1
<i>Harrisonia abyssinica</i>	1	0	1	0	1	1	1	1	1	1	0	0	0	1	0	0
<i>Harungana madagascariensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Harveya alba</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Harveya kiangombesis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Harveya obtusifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Haumaniastrum caeruleum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Haydonia monophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hebenstretia angolensis</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Hebenstretia dentata</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Hedbergia abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hedbergia decurva</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hedbergia longiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Heeria reticulata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Heinsenia diervilleoides</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Heinsia crinita</i>	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Heinsia zanzibarica</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Helichrysum amblyphyllum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Helichrysum argyranthum</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Helichrysum brownei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Helichrysum chionoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Helichrysum citrispinum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Helichrysum cymosum</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
<i>Helichrysum ellipticifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Helichrysum foetidum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1

<i>Helichrysum</i> <i>formosissimum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Helichrysum forskahlii</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Helichrysum</i> <i>gerberifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Helichrysum globosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Helichrysum gloria-dei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Helichrysum</i> <i>glumaceum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Helichrysum kilimanjari</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
<i>Helichrysum kirkii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Helichrysum</i> <i>maranguense</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Helichrysum meyeri-</i> <i>johannis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Helichrysum nandense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Helichrysum newii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Helichrysum nudifolium</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Helichrysum</i> <i>odoratissimum</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
<i>Helichrysum</i> <i>panduratum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Helichrysum schimperi</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1

<i>Helichrysum setosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Helichrysum stenopterum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Helictotrichon elongatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Helictotrichon lachnantherum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Helictotrichon milanjanum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Helictotrichon umbrosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Helinus integrifolius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Helinus mystacinus</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
<i>Heliotropium aegyptiacum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Heliotropium albohispidum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Heliotropium gorinii</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Heliotropium indicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Heliotropium longiflorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Heliotropium marifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Heliotropium ovalifolium</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Heliotropium pectinatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Heliotropium rariflorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Heliotropium simile</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Heliotropium somalense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Heliotropium steudneri</i>	1	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0
<i>Heliotropium strigosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Heliotropium supinum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Heliotropium zeylanicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Heracleum abyssinicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Heracleum elgonense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Heracleum inexpectatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Heracleum taylorii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hermannia boranensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hermannia exappendiculata</i>	0	0	1	0	0	0	0	1	1	0	0	0	1	0	0	0
<i>Hermannia exappendiculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0

<i>Hermannia kirkii</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hermannia oliveri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hermannia uhligii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Heteromorpha arborescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Heteromorpha trifoliata</i>	1	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1
<i>Heteropogon contortus</i>	0	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0
<i>Heterotis canescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hewittia malabarica</i>	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0
<i>Hewittia sublobata</i>	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0
<i>Heywoodia lucens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hibiscus aethiopicus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Hibiscus aponeurus</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Hibiscus articulatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Hibiscus calyphyllus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Hibiscus cannabinus</i>	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Hibiscus diversifolius</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hibiscus dongolensis</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hibiscus faulknerae</i>	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Hibiscus flavifolius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

<i>Hibiscus fuscus</i>	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
<i>Hibiscus greenwayi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Hibiscus kabuyeana</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hibiscus lobatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hibiscus ludwigii</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1
<i>Hibiscus lunarifolius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Hibiscus macranthus</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hibiscus meyeri</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Hibiscus micranthus</i>	0	0	1	1	1	0	0	1	1	1	0	0	0	0	0	0
<i>Hibiscus ovalifolius</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hibiscus palmatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hibiscus pavonioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hibiscus physaloides</i>	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0
<i>Hibiscus sidiformis</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hibiscus surattensis</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Hibiscus tiliaceous</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Hibiscus trionum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Hibiscus vitifolius</i>	0	1	0	0	1	0	0	0	0	0	1	0	1	0	0	1
<i>Hildebrandtia</i>																
<i>obcordata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hildebrandtia sepalsosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Hillieria latifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hilliardia smithiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hilsenbergia nomeralis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Hilsenbergia petiolaris</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Hilsenbergia teitensis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Hippocratea africana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Hippocratea pallens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hirpicium diffusum</i>	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0
<i>Histiopteris incisa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hoffmannanthus abbotianus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Holarrhena pubescens</i>	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0
<i>Holothrix aphylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Holothrix pentadactyla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Homalium longistylum</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Homalocheilos ramosissimus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hoslundia opposita</i>	0	0	1	1	1	1	1	1	1	1	0	1	0	0	0	0
<i>Hovenia dulcis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Huernia aspera</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Huernia keniensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

<i>Hugonia castaneifolia</i>	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Hunteria zeylanica</i>	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0
<i>Huperzia dacrydioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Huperzia holstii</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Huperzia rubrica</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Huperzia saururus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Huperzia verticillata</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Hybanthus enneaspermus</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Hydnora abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Hydnora sinandevu</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hydrocotyle mannii</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Hydrocotyle ranunculoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Hydrocotyle sibthorpioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Hydrolea floribunda</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hygrophila auriculata</i>	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0
<i>Hygrophila schulli</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hygrophila spiciformis</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hymenaea verrucosa</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0

<i>Hymenocardia acida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hymenodictyon floribundum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hymenodictyon parvifolium</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Hymenophyllum capillare</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hymenophyllum polyanthos</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Hymenophyllum sibthorpioides</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Hymenophyllum splendidum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Hymenophyllum tunbrigense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hyparrhenia collina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Hyparrhenia cymbaria</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hyparrhenia diplandra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hyparrhenia dregeana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Hyparrhenia filipendula</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Hyparrhenia formosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Hyparrhenia hirta</i>	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Hyparrhenia lintonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

<i>Hyparrhenia papillipes</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Hyparrhenia rufa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hyparrhenia schimperi</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hyparrhenia variabilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Hypericum annulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hypericum kiboense</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Hypericum lalandii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hypericum peplidifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Hypericum quartinianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hypericum revolutum</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Hypericum roeperanum</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Hyperthelia dissoluta</i>	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
<i>Hyphaene compressa</i>	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0
<i>Hyphaene coriacea</i>	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
<i>Hypochaeris glabra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hypoestes triflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hypoestes aristata</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Hypoestes cancellata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hypoestes forskahlii</i>	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0

<i>Hypoestes triflora</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
<i>Hypoestes verticillaris</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
<i>Hypolepis goetzei</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Hypolepis rugosula</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Hypoxis angustifolia</i>	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
<i>Hypoxis kilimanjarica</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Hypoxis obtusa</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1
<i>Hyptis pectinata</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Hyptis suaveolens</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Iboza multiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Ilex mitis</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
<i>Illigera pentaphylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Impatiens hoehnelii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Impatiens polhillii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Impatiens burtonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Impatiens elegantissima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Impatiens eminii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Impatiens engleri</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Impatiens fischeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Impatiens hochstetteri</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0

<i>Impatiens hoehnelii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Impatiens meruensis</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Impatiens nana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Impatiens niamniamensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Impatiens pseudoviola</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0
<i>Impatiens sodenii</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
<i>Impatiens stuhlmannii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Impatiens teitensis</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Impatiens tinctoria</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Impatiens walleriana</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Indigofera ambelacensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Indigofera arrecta</i>	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1
<i>Indigofera atriceps</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Indigofera bogdanii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Indigofera brevicalyx</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Indigofera ciferrii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Indigofera circinella</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Indigofera cliffordiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Indigofera coerulea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Indigofera colutea</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Indigofera congesta</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Indigofera conjugata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Indigofera costata</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Indigofera emarginella</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Indigofera garckeana</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Indigofera hirsuta</i>	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0
<i>Indigofera hirsuta</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Indigofera hochstetteri</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Indigofera homblei</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Indigofera kirkii</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Indigofera lupatana</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1
<i>Indigofera masaiensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Indigofera mimosoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Indigofera oblongifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Indigofera paniculata</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Indigofera schimperi</i>	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0
<i>Indigofera secundiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Indigofera spicata</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Indigofera spinosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Indigofera subargentea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Indigofera swaziensis</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
<i>Indigofera tanganyikensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Indigofera tinctoria</i>	0	0	1	1	0	1	0	1	1	0	0	0	0	0	0	0
<i>Indigofera trita</i>	0	0	1	0	1	0	0	1	1	1	0	0	0	0	0	1
<i>Indigofera vicioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Indigofera vohemarensis</i>	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	1
<i>Indigofera volkensii</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Indigofera wituensis</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Indigofera zanzibarica</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Indigofera zenkeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Inhambanella henriquesii</i>	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0
<i>Inula decipiens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Inula glomerata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Inula mannii</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Inula paniculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lochroma cyaneum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lodes usambarensis</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0

<i>Ipbigenia oliveri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ipomea sepjaria</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ipomoea aquatica</i>	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0
<i>Ipomoea arachnosperma</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ipomoea blepharophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ipomoea bullata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Ipomoea cairica</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1
<i>Ipomoea coptica</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Ipomoea cordofana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ipomoea crepidiformis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ipomoea donaldsonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ipomoea eriocarpa</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Ipomoea erythrocephala</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ipomoea ficifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ipomoea fulvicaulis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ipomoea garckeana</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Ipomoea hartmannii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ipomoea hildebrandtii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Ipomoea hochstetteri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ipomoea hochstetteri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Ipomoea intrapilosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ipomoea involucrata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ipomoea irwiniae</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Ipomoea kituiensis</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ipomoea kotschyana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ipomoea lapidosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ipomoea longituba</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Ipomoea macrantha</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Ipomoea marmorata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ipomoea mauritiana</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Ipomoea mombassana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Ipomoea obscura</i>	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1
<i>Ipomoea ochracea</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Ipomoea pes-caprae</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Ipomoea pes-tigridis</i>	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0
<i>Ipomoea polymorpha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ipomoea shupangensis</i>	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
<i>Ipomoea sinensis</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0

<i>Ipomoea spathulata</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Ipomoea tenuirostris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ipomoea ticcopa</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Ipomoea tuba</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Ipomoea urbaniana</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Ipomoea welwitschii</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ipomoea wightii</i>	1	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1
<i>Iris pseudacorus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Isachne mauritiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ischaemum afrum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Isodon ramosissimus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Isoetes abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Isoglossa gregorii</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
<i>Isoglossa lactea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Isoglossa laxa</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
<i>Isoglossa membranacea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Isoglossa oerstediana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Isoglossa punctata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Isoglossa substrobilina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Isolepis costata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Isolona cauliflora</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Ixora narcissodora</i>	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0
<i>Jacquemontia paniculata</i>	0	0	1	0	0	1	0	1	1	0	0	0	0	0	0	0
<i>Jacquemontia tamnifolia</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Jasminum abyssinicum</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1
<i>Jasminum eminii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Jasminum floribundum</i>	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
<i>Jasminum fluminense</i>	1	0	1	0	1	0	0	1	1	0	1	1	1	0	1	1
<i>Jasminum grandiflorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Jasminum meyeri- johannis</i>	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Jasminum pauciflorum</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Jasminum schimperi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Jasminum streptopus</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Jateorhiza palmata</i>	0	0	1	0	1	0	0	0	1	1	0	0	0	0	0	0
<i>Jatropha dictar</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Jatropha ellenbeckii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Jatropha fissispina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Jatropha gossypiiifolia</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0

<i>Jatropha multifida</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Jatropha parvifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Jatropha pelargoniiifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Jatropha prunifolia</i>	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
<i>Jatropha rivae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Jatropha spicata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Jatropha villosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Josephinia africana</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Juglans nigra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Julbernardia magnistipulata</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Juncus bufonius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Juncus dregeanus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Juncus effusus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Juncus oxycarpus</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Juniperus procera</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Jussiaea abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Justicia anagalloides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Justicia anselliana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Justicia betonica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Justicia brevipila</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

<i>Justicia caerulea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Justicia calyculata</i>	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
<i>Justicia capensis</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Justicia cordata</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Justicia debilis</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Justicia diclipteroides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Justicia elliotii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Justicia exigua</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Justicia extensa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Justicia fischeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Justicia flava</i>	1	1	0	1	0	1	0	0	0	1	0	0	1	0	0	0
<i>Justicia gendarussa</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Justicia glabra</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Justicia heterocarpa</i>	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Justicia inaequifolia</i>	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0
<i>Justicia keniensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Justicia lorata</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Justicia matammensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Justicia nyassana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Justicia nyassana</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Justicia odora</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Justicia phillipsiae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Justicia pinguior</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Justicia pseudorungia</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Justicia rostellularia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Justicia striata</i>	0	0	0	0	1	0	0	0	0	0	1	0	1	0	1	1
<i>Justicia uncinulata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Justicia unyorensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Justicia whytei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kalanchoe crenata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kalanchoe ballyi</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Kalanchoe citrina</i>	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Kalanchoe densiflora</i>	1	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0
<i>Kalanchoe glaucescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Kalanchoe lanceolata</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kalanchoe lateritia</i>	0	1	0	0	0	0	0	1	0	1	0	0	0	1	0	0
<i>Kalanchoe mitejea</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kalanchoe nyikae</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Kalanchoe obtusa</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Kalanchoe pinnata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Kalanchoe prittwitzii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kalanchoe prolifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kanahia laniflora</i>	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Kedrostis foetidissima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kedrostis gijef</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kedrostis leloja</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kedrostis pseudogijef</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Keetia gueinzii</i>	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0
<i>Keetia venosa</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Keetia zanzibarica</i>	0	0	1	0	1	0	0	1	1	1	0	0	0	0	0	0
<i>Khaya anthotheca</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kigelia africana</i>	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Kleinia abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kleinia abyssinica</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Kleinia gregorii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kleinia kleinioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Kleinia longiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kleinia odora</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Kleinia petraea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kleinia squarrosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Kniphofia thomsonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Koeleria capensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kohautia caespitosa</i>	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0
<i>Kohautia coccinea</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Kohautia virgata</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Kosteletzkya adoensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
<i>Kosteletzkya begoniifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kotschya aeschynomoides</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Kotschya africana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kotschya recurvifolia</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Kyllinga alata</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Kyllinga alba</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kyllinga cartilaginea</i>	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0
<i>Kyllinga chrysantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kyllinga comosipes</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Kyllinga erecta</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kyllinga exima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kyllinga flava</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kyllinga macrocephala</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0

<i>Kyllinga microstyla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kyllinga nervosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kyllinga odorata</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Kyllinga polyphylla</i>	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1
<i>Kyllinga tenuifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kyllingiella microcephala</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kyllingiella polyphylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lablab purpureus</i>	0	0	0	0	0	1	1	0	1	1	1	0	0	0	0	0
<i>Lactuca capensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Lactuca glandulifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lactuca inermis</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Lactuca paradoxa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lagenaria abyssinica</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Lagenaria siceraria</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Laggera brevipes</i>	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0
<i>Laggera elatior</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Laggera pterodonta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lagynias pallidiflora</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Lamprothamnus zanguebaricus</i>	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0

<i>Landolphia buchananii</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Landolphia kilimandjarica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Landolphia kirkii</i>	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Lankesteria alba</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Lankesteria glandulosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lannea alata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lannea alata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Lannea edulis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lannea fulva</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lannea rivae</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lannea schimperi</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lannea schweinfurthii</i>	1	1	1	0	1	0	0	1	1	1	0	0	0	1	0	0
<i>Lannea triphylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lannea welwitschii</i>	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0
<i>Lantana camara</i>	0	0	1	0	1	1	1	1	1	0	0	0	0	0	1	0
<i>Lantana rhodesiensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Lantana trifolia</i>	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	1
<i>Lantana ukambensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lantana viburnoides</i>	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1
<i>Laportea alatipes</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0

<i>Laportea ovalifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lasianthus</i>																
<i>kilimandscharicus</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Lasiodiscus mildbraedii</i>	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
<i>Lasiodiscus pervillei</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Lathyrus hygrophilus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Launaea bana</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Launaea cornuta</i>	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0
<i>Launaea intybacea</i>	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
<i>Lawsonia inermis</i>	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Lecaniodiscus</i>																
<i>fraxinifolius</i>	0	0	1	0	1	1	1	1	1	1	0	0	0	1	0	0
<i>Ledebouria kirkii</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Ledebouria revoluta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Leea guineensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Leersia hexandra</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Lefebvrea</i>																
<i>longipedicellata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lemna perpusilla</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Leonotis leonurus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Leonotis mollissima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Leonotis nepetifolia</i>	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
<i>Leonotis ocymifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lepidagathis scabra</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lepidagathis scariosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lepidium africanum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lepidium bonariense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Lepidium didymum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lepidotrichilia volkensisii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lepisanthes senegalensis</i>	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0
<i>Lepisorus excavatus</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Lepistemonopsis volkensisii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Leptactina platyphylla</i>	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
<i>Leptadenia hastata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Leptadenia lanceolata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Leptaspis cochleata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Leptocarydion vulpiastrum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Leptochloa obtusiflora</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Leptochloa panicea</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0

<i>Leptochloa rupestris</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Leptochloa uniflora</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Leptogramma pozoi</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Leptospermum laevigatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Leptospermum petersonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Leptothrium senegalense</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lepturus radicans</i>	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
<i>Lepturus repens</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Lettowianthus stellatus</i>	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0
<i>Leucaena latisiliqua</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Leucaena leucocephala</i>	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Leucas argentea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Leucas bracteosa</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Leucas calostachya</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Leucas deflexa</i>	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Leucas glabrata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Leucas grandis</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1
<i>Leucas jamesii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Leucas martinicensis</i>	0	1	0	0	0	0	0	1	0	0	0	0	1	0	1	0
<i>Leucas masaiensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Leucas micrantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Leucas mwingensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Leucas neuflyzeana</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Leucas nubica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Leucas tomentosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Leucas tsavoensis</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Leucas urticifolia</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Leucas volkensii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Leucas venulosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Lijndenia greenwayi</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Limeum praetermissum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Limeum viscosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Limnophyton obtusifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Limosella africana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Limosella macrantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lindenbergia indica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lindernia diffusa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lindernia insularis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Lindernia</i>																
<i>nummularifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lindernia oliverana</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Lindernia philcoxii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lindernia whytei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Linderniella pusilla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lintonia nutans</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Linum keniense</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Linum volkensii</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Liparis deistellii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Liparis neglecta</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Liparis nervosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lipocarpha chinensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lipocarpha</i>																
<i>hemisphaerica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lipocarpha nana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lipotriche pungens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lipotriche scandens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lippia abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lippia asperifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Lippia carviadora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Lippia grandifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lippia javanica</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
<i>Lippia kituiensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lippia somalensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lippia ukambensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Lippia woodii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lithospermum afromontanum</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Inula decipiens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lobelia aberdarica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lobelia bambuseti</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lobelia bambuseti</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lobelia baumannii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lobelia cheranganiensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lobelia deckenii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lobelia fervens</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
<i>Lobelia flaccida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lobelia giberroa</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Lobelia holstii</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
<i>Lobelia inconspicua</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Lobelia keniensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Lobelia lindblomii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lobelia minutula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lobelia neumannii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lobelia sattimae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lobelia telekii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lobelia welwitschii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Loeseneriella crenata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Loeseneriella africana</i>	0	0	0	0	1	0	0	1	1	1	0	0	0	0	0	1
<i>Lomariopsis warneckei</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Lonchocarpus bussei</i>	1	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0
<i>Lonchocarpus eriocalyx</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Loranthus rufescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lotononis laxa</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Lotononis platycarpus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Lotus becquetii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lotus corniculatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lotus discolor</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Lotus goetzei</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Loudetia arundinacea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Loudetia flavida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Loudetia kagerensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Loudetia phragmitoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Loudetia simplex</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lovoa swynnertonii</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Loxogramme abyssinica</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
<i>Loxogramme lanceolata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Ludia mauritiana</i>	1	0	0	0	0	1	1	0	1	1	0	0	0	1	0	0
<i>Ludia sessiliflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Ludia sessiliflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Ludwigia abyssinica</i>	0	1	0	0	0	0	0	1	0	0	0	1	0	0	1	0
<i>Ludwigia adscendens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ludwigia erecta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ludwigia leptocarpa</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ludwigia octovalvis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ludwigia stolonifera</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Luffa echinata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lumnitzera racemosa</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Lupinus mutabilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lupinus princei</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Luzula abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Luzula campestris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Luzula johnstonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lychnis crassifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lychnis rotundifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lycium europaeum</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lycopodiella cernua</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Lycopodium clavatum</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Lycopodium dacrydioides</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Lycopodium dacrydioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Lycopodium saururus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Lysimachia adoensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lysimachia arvensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lysimachia ruhmeriana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Lysimachia serpens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lysimachia tenella</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lysimachia volkensisii</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
<i>Lythrum rotundifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Macaranga capensis</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0

<i>Macaranga conglomerata</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Macaranga kilimandscharica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Macaranga schweinfurthii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Maclura africana</i>	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Macphersonia gracilis</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Macrorungia pubinervia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Macrotyloma axillare</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
<i>Maerua angolensis</i>	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0
<i>Maerua calantha</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
<i>Maerua crassifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Maerua decumbens</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Maerua denhardtiorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Maerua edulis</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Maerua endlichii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Maerua grantii</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
<i>Maerua holstii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Maerua kirkii</i>	1	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0
<i>Maerua kirkii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0

<i>Maerua macrantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Maerua mungaii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Maerua oblongifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Maerua parvifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Maerua subcordata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Maerua triphylla</i>	1	0	0	0	1	0	0	1	1	1	1	0	1	1	1	0
<i>Maesa lanceolata</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Maesopsis eminii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Majidea zanguebarica</i>	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0
<i>Malaxis</i>																
<i>weberbaueriana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mallotus oppositifolius</i>	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0
<i>Malva verticillata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Malvastrum</i>																
<i>coromandelianum</i>	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0
<i>Manilkara butugi</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Manilkara discolor</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Manilkara discolor</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1
<i>Manilkara mochisia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Manilkara mochisia</i>	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
<i>Manilkara obovata</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Manilkara</i> <i>sansibarensis</i>	0	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0
<i>Manilkara sulcata</i>	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0
<i>Manilkara sulcata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Marattia fraxinea</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Margaritaria discoidea</i>	0	0	0	0	1	0	0	1	0	1	0	0	0	0	1	1
<i>Mariscus</i> <i>albosanguineus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Mariscus amauropus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mariscus assimilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Mariscus circumclusus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mariscus diurensis</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Mariscus dubius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mariscus</i> <i>haemisphaeriscus</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
<i>Mariscus keniensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Mariscus kernstenii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mariscus luteus</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Mariscus macropus</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
<i>Mariscus phillipsiae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mariscus pseudo-</i> <i>vestitus</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

<i>Mariscus psilostachys</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Mariscus remotus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mariscus rohlfsii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mariscus rubrotinctus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Mariscus squarrosus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Mariscus taylori</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Mariscus tomaiophyllus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Markhamia lutea</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Markhamia platycalyx</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Markhamia zanzibarica</i>	0	0	1	0	1	1	0	1	1	0	0	0	0	0	0	0
<i>Marsdenia abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Marsdenia rubicunda</i>	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0
<i>Marsdenia schimperi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Marsilea</i>																
<i>coromandelina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Marsilea gibba</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Marsilea macrocarpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Marsilea</i>																
<i>megalomanica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Marsilea minuta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Mascarenhasia</i>																
<i>arborescens</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Maytenus acuminata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Maytenus arbutifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Maytenus heterophylla</i>	0	0	1	0	1	0	0	0	1	0	1	0	1	0	1	1
<i>Maytenus heterophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Maytenus</i>																
<i>mossambicensis</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
<i>Maytenus obscura</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Maytenus</i>																
<i>putterlickioides</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Maytenus senegalensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Maytenus senegalensis</i>	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Maytenus undata</i>	0	0	1	0	1	1	0	1	1	1	0	0	1	0	1	1
<i>Maytenus undata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Medicago laciniata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Medicago lupulina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Megalastrum</i>																
<i>lanuginosum</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Megalochlamys</i>																
<i>revolutum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Megalochlamys hamata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Megalochlamys kenyensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Megalochlamys revoluta</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Megalochlamys violacea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Megastachya mucronata</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Meineckia fruticans</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Meineckia phyllanthoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Melaleuca styphelioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Melanodiscus oblongus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Melanthera scandens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Melhania ovata</i>	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0
<i>Melhania velutina</i>	0	1	1	1	0	0	0	1	1	1	0	0	0	0	1	0
<i>Melia azedarach</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Melia volkensii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Melinis minutiflora</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
<i>Melinis repens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Melinis subglabra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Melinis tenuissima</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Melochia corchorifolia</i>	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Memecylon buxoides</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Memecylon fragrans</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Memecylon mouririifolium</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Memecylon sansibaricum</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Memecylon teitense</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Memecylon verruculosum</i> Brenan	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Mentha longifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Merremia ampelophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Merremia pinnata</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Merremia pterygocaulos</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Merremia Tridentate</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Metaporana densiflora</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Metarungia pubinervia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Meyna tetraphylla</i>	1	1	1	0	1	1	0	1	1	1	0	0	0	1	0	0

<i>Microcharis</i>																
<i>microcharoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Microchloa indica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Microchloa kunthii</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
<i>Micrococca holstii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Micrococca mercurialis</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Microcoelia exilis</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Microcoelia globulosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Microcoelia guyoniana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Microcoelia koehleri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Microcoelia moreauae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Microcoelia smithii</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Microcoelia stolzii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Microglossa densiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Microglossa pyrifolia</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1
<i>Microglossa</i>																
<i>pyrrhopappa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Microgramma</i>																
<i>lycopodioides</i>	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Microlepidia speluncae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Micromeria imbricata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Microsorum punctatum</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Mikania</i>																
<i>chenopodiifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mikania cordata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mikaniopsis bambuseti</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Mikaniopsis</i>																
<i>clematoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Mikaniopsis</i>																
<i>usambarensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mildbraedia carpinifolia</i>	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0
<i>Mildbraedia sp.</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Milicia excelsa</i>	1	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0
<i>Millettia dura</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Millettia leucantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Millettia oblata</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Millettia usaramensis</i>	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0
<i>Millettia vatkei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mimosa pigra</i>	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Mimulopsis alpina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mimulopsis</i>																
<i>arborescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mimulopsis solmsii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Mimusops aedificatoria</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Mimusops kummel</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
<i>Mimusops obtusifolia</i>	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0
<i>Misopates orontium</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
<i>Mitracarpus hirtus</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Mitragyna rubrostipulata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mkilua fragrans</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Mohria caffrorum</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Mohria vestita</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Mollugo cerviana</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Mollugo nudicaulis</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Momordica anigosantha</i>	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
<i>Momordica boivinii</i>	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Momordica calantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Momordica charantia</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Momordica cissoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Momordica cymbalaria</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Momordica foetida</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
<i>Momordica friesiorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Momordica glabra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Momordica leiocarpa</i>	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
<i>Momordica pterocarpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Momordica rostrata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Momordica sessilifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Momordica spinosa</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Momordica trifoliolata</i>	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Monadenium montanum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Monadenium schubei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Monanthotaxis buchananii</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Monanthotaxis discolor</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Monanthotaxis faulknerae</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Monanthotaxis fornicata</i>	0	0	1	0	0	1	1	1	1	1	0	0	0	0	0	0
<i>Monanthotaxis parvifolia</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Monanthotaxis schweinfurthii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Monanthotaxis trichocarpa</i>	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0

<i>Monathecium aristatum</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Mondia ecornuta</i>	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
<i>Mondia whitei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Monechma debile</i>	1	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
<i>Monodora grandidieri</i>	0	0	1	0	1	1	1	1	1	1	0	0	0	0	0	0
<i>Monodora junodii</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Monodora myristica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Monopsis stellarioides</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Monotheceum aristatum</i>	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
<i>Monotheceum glandulosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Monsonia angustifolia</i>	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Monsonia longipes</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Monsonia senegalensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Montia fontana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Moraea afro-orientalis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Moraea carsonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Moraea thomsonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Morella salicifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Morella serrata</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Moringa borziana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Moringa oleifera</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Moringa rivaie</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Moringa stenopetala</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Morus mesozygia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mostuea brunonis</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Mucuna gigantea</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Mucuna poggei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Multidentia sclerocarpa</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Mundulea sericea</i>	1	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0
<i>Murdannia nudiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Murdannia simplex</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1
<i>Mussaenda arcuata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mussaenda erythrophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mussaenda microdonta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Myosotis abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Myosotis keniensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Myosotis vestergrenii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Myrianthus holstii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Myrica meyeri-johannis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Myrica salicifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Myrsine africana</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1
<i>Mystroxydon aethiopicum</i>	1	1	0	0	0	0	0	0	0	1	1	1	1	0	1	1
<i>Mystroxydon aethiopicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Nectaropetalum kaessneri</i>	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0
<i>Nelsonia canescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Neoboutonia macrocalyx</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
<i>Neoboutonia melleri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Neonotonia wightii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Neorautanenia mitis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Nepeta azurea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nephrangis filiformis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nephrolepis biserrata</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Nephrolepis undulata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Neptunia oleracea</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Nervilia adolphi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nervilia bicarinata</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0

<i>Nervilia kotschy</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nervilia petraea</i>	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Nesaea erecta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nesaea</i>																
<i>kilimandscharica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Nesaea radicans</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Nesogordonia holtzii</i>	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Neuracanthus keniensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Neuracanthus</i>																
<i>tephrophyrus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Newtonia buchananii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Newtonia buchananii</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
<i>Newtonia elangeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Newtonia hildebrandtii</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Newtonia paucijuga</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Newtonia paucijuga</i>	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Nicolasia nitens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nothosaerva brachiata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nothovernonia</i>																
<i>purpurea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Notonia coccinea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

<i>Notonia hildebrandtii</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1
<i>Notonia petraea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Nuxia congesta</i>	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1
<i>Nuxia floribunda</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Nuxia oppositifolia</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Nymphaea lotus</i>	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Nymphaea nouchali</i>	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0
<i>Oberonia disticha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Obetia radula</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Ochna holstii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Ochna holstii</i>	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
<i>Ochna inermis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Ochna inermis</i>	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Ochna insculpta</i>	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
<i>Ochna kirkii</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Ochna mossambicensis</i>	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Ochna ovata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Ochna thomasiana</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Ochna thomasiana</i>	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0
<i>Ocimum africanum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Ocimum americanum</i>	0	0	1	1	1	0	0	1	1	0	0	0	0	0	0	0
<i>Ocimum basilicum</i>	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0
<i>Ocimum filamentosum</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ocimum fischeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Ocimum gratissimum</i>	0	0	1	0	1	0	0	1	1	1	0	0	0	0	0	0
<i>Ocimum hadiense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ocimum kenyense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ocimum kilimandscharicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
<i>Ocimum lamiifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ocimum obovatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ocimum suave</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
<i>Ocotea argylei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ocotea bullata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ocotea kenyensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ocotea usambarensis</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Odontella fischeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Oeceoclades maculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oeceoclades ugandae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oeceoclades zanzibarica</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0

<i>Oenanthe palustris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Oenanthe procumbens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Olax obtusifolia</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Oldeania alpina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oldenlandia affinis</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Oldenlandia capensis</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oldenlandia corymbosa</i>	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0
<i>Oldenlandia corymbosa</i>	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
<i>Oldenlandia fastigiata</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1
<i>Oldenlandia friesiorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oldenlandia goreensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oldenlandia herbacea</i>	0	1	1	0	0	0	0	0	0	1	0	1	1	1	0	0
<i>Oldenlandia johnstonii</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1
<i>Oldenlandia johnstonii</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Oldenlandia medemanii</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Oldenlandia monanthos</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Oldenlandia rupicola</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Oldenlandia scopulorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oldfieldia somalensis</i>	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0

<i>Olea africana</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Olea capensis</i>	1	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1
<i>Olea europaea</i>	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Olea europaea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Olea mildbraedii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Olea welwitschii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Olea woodiana</i>	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0
<i>Oleandra distenta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Olinia rochetiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oliverella hildebrandtii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oliverella hildebrandtii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Olyra latifolia</i>	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
<i>Oncella ambigua</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oncinotis tenuiloba</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oncoba routledgei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oncoba spinosa</i>	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0
<i>Oncocalyx fischeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oncocalyx kelleri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oncocalyx rhamnifolia</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Oncocalyx schimperi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Oncocalyx sulfureus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oncocalyx ugogensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ophioglossum polyphyllum</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Ophioglossum reticulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ophrypetalum odoratum</i>	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
<i>Opilia amentacea</i>	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0
<i>Opilia amentacea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Opilia campestris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oplismenus burmannii</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oplismenus compositus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
<i>Oplismenus hirtellus</i>	0	0	0	0	1	1	0	1	0	0	0	0	1	0	1	1
<i>Oplismenus undulatifolius</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Orbea baldratii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Orbea semota</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Orbivestus cinerascens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Orbivestus karangensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Oreobambos</i>																
<i>buchwaldii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oreophyton falcatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oreoschimperella</i>																
<i>aberdarensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oreosyce africana</i>	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Ormocarpum keniense</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ormocarpum kirkii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Ormocarpum kirkii</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ormocarpum sennoides</i>	0	0	0	0	1	1	1	0	1	1	0	0	0	0	0	0
<i>Ormocarpum</i>																
<i>trichocarpum</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1
<i>Ornithogalum</i>																
<i>donaldsonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ornithogalum</i>																
<i>gracillimum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ornithogalum</i>																
<i>longibracteatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Ornithogalum</i>																
<i>tenuifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Orobanche minor</i>	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
<i>Orobanche ramosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Oropetium capense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Oropetium minimum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oropetium thomaeum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Orthochilus montiselgonis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Orthosiphon pallidus</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
<i>Orthosiphon parvifolius</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Orthosiphon rubicundus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Orthosiphon somalensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Orthosiphon suffrutescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oryza punctata</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Osmunda regalis</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Osteospermum vaillantii</i>	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1
<i>Osyridicarpos scandens</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Osyridicarpos schimperianus</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
<i>Osyris abyssinica</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1
<i>Osyris lanceolata</i>	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
<i>Otholobium foliosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Otomeria oculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ottella ulvifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

<i>Ouratea densiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ouratea hiernii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ouratea scheffleri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Oxalis corniculata</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
<i>Oxalis obliquifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oxyanthus goetzei</i>	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0
<i>Oxyanthus lepidus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oxyanthus pyriformis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Oxyanthus speciosus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
<i>Oxyanthus stenocarpus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oxyanthus zanguebaricus</i>	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0
<i>Oxygonum salicifolium</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Oxygonum sinuatum</i>	1	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0
<i>Oxygonum stuhlmannii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ozoroa insignis</i>	1	1	0	0	0	0	0	1	1	0	0	0	1	0	1	1
<i>Ozoroa obovata</i>	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Pachycarpus bisacculatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pachycarpus concolor</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pachycarpus eximius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Pachycarpus lineolatus</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Pachycarpus rhinophyllus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Pachycybum (Caralluma)</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pachystela brevipes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pachystigma gillettii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pachystigma loranthifolium</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Pancovia golungensis</i>	0	0	0	0	0	1	1	1	1	1	0	0	0	1	0	0
<i>Pandanus kirkii</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Panicum atosanguineum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Panicum brevifolium</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Panicum calvum</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Panicum coloratum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Panicum deustum</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1
<i>Panicum eickii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Panicum heterostachyum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Panicum hymeniochilum</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

<i>Panicum infestum</i>	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Panicum laticomum</i>	0	0	1	0	0	0	0	1	1	1	0	0	0	0	0	0
<i>Panicum mapalense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Panicum maximum</i>	1	1	1	1	0	0	0	1	1	1	0	0	0	0	1	1
<i>Panicum meyeranum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Panicum monticola</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Panicum pleianthum</i> Peter	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Panicum poaeoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Panicum repens</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Panicum repentellum</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Panicum robynsii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Panicum subaldum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Panicum trichocladum</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Pappea capensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Pappea capensis</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Paramacrolobium coeruleum</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Parapentas battiscombei</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Paraserianthes lophantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Parietaria debilis</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
<i>Parinari curatellifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Parkia filicoidea</i>	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0
<i>Parkinsonia anacantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Parochetus communis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Parquetina nigrescens</i>	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
<i>Paspalidium desertorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Paspalidium geminatum</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Paspalidium obtusifolium</i>	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Paspalum conjugatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Paspalum scrobiculatum</i>	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1
<i>Passiflora edulis</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Passiflora eichlerana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Passiflora foetida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Passiflora mollissima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Passiflora subpeltata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Paullinia pinnata</i>	0	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0

<i>Pauridiantha</i>																
<i>paucinervis</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1
<i>Pavetta abyssinica</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Pavetta crassipes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pavetta crebrifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Pavetta crebrifolia</i>	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0
<i>Pavetta elliotii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pavetta gardeniifolia</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1
<i>Pavetta oliveriana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pavetta sepium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pavetta sphaerobotrys</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pavetta stenosepala</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Pavetta subcana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pavetta tarenoides</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Pavetta teitana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
<i>Pavetta ternifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pavetta uniflora</i>	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
<i>Pavetta yalaensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pavonia arabica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pavonia arenaria</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pavonia burchellii</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0

<i>Pavonia elegans</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pavonia flavoferruginea</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Pavonia glechomifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pavonia irakuensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
<i>Pavonia</i> <i>kilimandscharica</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Pavonia leptocalyx</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Pavonia patens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pavonia patens</i>	0	1	0	0	1	0	0	0	0	0	1	0	1	0	1	1
<i>Pavonia propinqua</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pavonia triloba</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pavonia urens</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1
<i>Pavonia zeylanica</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pedaliium murex</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Peddiea fischeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pelargonium</i> <i>quinquelobatum</i>	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
<i>Pelargonium</i> <i>alchemilloides</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
<i>Pelargonium whytei</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Pellaea adiantoides</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0

<i>Pellaea calomelanos</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Pellaea doniana</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Pellaea dura</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Pellaea involuta</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Pellaea longipilosa</i>	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Pellaea longipilosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Pellaea quadripinnata</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
<i>Pellaea schweinfurthii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pellaea viridis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Pellaea viridis</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Peltophorum ferrugineum</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Pemphis acidula</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Pennisetum clandestinum</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Pennisetum hohenackeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pennisetum mezianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Pennisetum polystachion</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Pennisetum purpureum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Pennisetum setaceum</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0

<i>Pennisetum sphacelatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pennisetum squamulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Pennisetum stramineum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Pentania ouranogyne</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Pentania schweinfurthii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pentarhopalopilia umbellulata</i>	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0
<i>Pentarrhinum abyssinicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Pentarrhinum gonoloboides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pentarrhinum inspidum</i>	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	1
<i>Pentas arvensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pentas bussei</i>	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
<i>Pentas decora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pentas hindsii</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Pentas lanceolata</i>	1	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1
<i>Pentas longiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
<i>Pentas longituba</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0

<i>Pentas nervosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pentas parvifolia</i>	0	1	0	0	0	0	0	0	0	1	1	0	1	0	0	0
<i>Pentas pubiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pentas schimperi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pentas susuaensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Pentas zanzibarica</i>	0	0	0	0	1	0	0	1	0	0	0	1	1	0	0	1
<i>Pentastichis borussica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pentastichis minor</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pentatropis nivalis</i>	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0
<i>Pentodon pentandrus</i>	1	0	1	0	0	0	0	1	1	1	0	0	0	0	0	0
<i>Peperomia abyssinica</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
<i>Peperomia blanda</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Peperomia blanda</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Peperomia fernandopoiana</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Peperomia goetzeana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Peperomia latifolia</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Peperomia molleri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Peperomia retusa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Peperomia rotundifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Peperomia tetraphylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0

<i>Peponium vogelii</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Peponium vogelii</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
<i>Pergularia daemia</i>	0	0	1	1	1	0	0	1	1	0	1	1	0	0	1	0
<i>Periploca linearifolia</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
<i>Peristrophe bicalyculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Perotis hildebraendtii</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Perotis patens</i>	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Persicaria amphibia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Persicaria decipiens</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Persicaria lapathifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Persicaria nepalensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Persicaria senegalensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Persicaria setosula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Peucedanum elgonense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Peucedanum friessiorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Peucedanum harmsianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Peucedanum kerstenii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Peucedanum linderi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Phanerophlebia caryotideia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Phaulopsis angolana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Phaulopsis gediensis</i>	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
<i>Phaulopsis imbricata</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Phelipanche ramosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Philadelphus coronarius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Philenoptera eriocalyx</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Philippia excelsa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Philippia keniensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Philippia pallidiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Phoenix dactylifera</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Phoenix reclinata</i>	0	0	1	0	0	1	1	0	0	0	0	1	0	0	0	0
<i>Phragmanthera dschallensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Phragmanthera rufescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Phragmanthera usuiensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Phragmites australis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Phragmites mauritianus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Phyla nodiflora</i>	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Phyllanthus amarus</i>	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0
<i>Phyllanthus boehmii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Phyllanthus capillaris</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Phyllanthus delpyanus</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Phyllanthus discoideus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Phyllanthus fischeri</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
<i>Phyllanthus glaucophyllus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Phyllanthus guineensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Phyllanthus harrisii</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Phyllanthus inflatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Phyllanthus kaessneri</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Phyllanthus leucocalyx</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Phyllanthus maderaspatensis</i>	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
<i>Phyllanthus muellerianus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Phyllanthus nummulariifolius</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Phyllanthus odontadenius</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Phyllanthus ovalifolius</i>	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0
<i>Phyllanthus pinnatus</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Phyllanthus reticulatus</i>	0	0	1	0	1	0	0	1	1	1	0	0	0	0	0	0
<i>Phyllanthus rotundifolius</i>	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
<i>Phyllanthus saclexii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Phyllanthus sepialis</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Phyllanthus somalensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Phyllanthus suffrutescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Phyllanthus welwitschianus</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Phymatodes scolopendria</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Phymatosorus scolopendria</i>	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0
<i>Physalis angulata</i>	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
<i>Physalis minima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Physalis peruviana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Phytolacca dioica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Phytolacca dodecandra</i>	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Phytolacca octandra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Pilea cesatamera</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Pilea johnstonii</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1
<i>Pilea rivularis</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pilea tetraphylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pilea usambarensis</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Pilea veronicifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Piliostigma thonningii</i>	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0
<i>Piloselloides hirsuta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pimpinella hirtella</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Pimpinella keniensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Pimpinella kilimandscharica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pimpinella lindblomii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pimpinella oreophila</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Piper capense</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
<i>Piper guineense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Piper umbellatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pisonia grandis</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Pistacia aethiopica</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Pistia strutiotes</i>	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Pisum sativum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Pithecellobium dulce</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pittosporum abyssinicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pittosporum mannii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pittosporum rhombifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pittosporum viridiflorum</i>	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
<i>Plantago palmata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Platostoma africanum</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Platostoma rotundifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Platycelyphium voense</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Platycelyphium voense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Platycerium elephantotis</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Platycladus orientalis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Platycoryne crocea</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Platystoma africanum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Plectranthus aegyptiacus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plectranthus alboviolaceus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0

<i>Plectranthus amboinicus</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Plectranthus assurgens</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Plectranthus barbatus</i>	1	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0
<i>Plectranthus bojeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plectranthus caninus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
<i>Plectranthus comosus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plectranthus cylindraceus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
<i>Plectranthus defolius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plectranthus djalensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plectranthus ecklonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Plectranthus edulis</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Plectranthus flaccidus</i>	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0
<i>Plectranthus grandicalyx</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
<i>Plectranthus hadiensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plectranthus ignarius</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Plectranthus kamerunensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

<i>Plectranthus kilimandschari</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1
<i>Plectranthus lactiflorus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
<i>Plectranthus lanuginosus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Plectranthus laxiflorus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
<i>Plectranthus longipes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Plectranthus luteus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Plectranthus marrubioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Plectranthus melleri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plectranthus montanus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plectranthus otostegiodes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plectranthus pauciflorus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plectranthus prostratus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Plectranthus pseudomarrubioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plectranthus pubescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Plectranthus sylvestris</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Plectranthus tenuiflorus</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

<i>Plectranthus tetensis</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
<i>Plectranthus zatarhendi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Pleiocarpa pycnantha</i>	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
<i>Pleopeltis macrocarpa</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0
<i>Pleopeltis rotunda</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pleurostelma cernuum</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Pleurostyliia africana</i>	1	0	0	0	1	1	0	1	0	1	0	0	0	0	0	0
<i>Plicosepalus curviflorus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Plicosepalus curviflorus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Plicosepalus meridianus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plicosepalus sagittifolius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pluchea bequaertii</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pluchea dioscoridis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Pluchea ovalis</i>	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0
<i>Pluchea sordida</i>	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
<i>Plumbago amplexicaulis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plumbago dawei</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Plumbago stenophylla</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Plumbago zeylanica</i>	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0

<i>Plumera rubra</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Pneumatopteris unita</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Poa leptoclada</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Poa schimperana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Podocarpus falcatus</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Podocarpus latifolius</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
<i>Poecilostachys oplismenoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pogonarthria squarrosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pollia condensata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pollichia campestris</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Polyalthia stuhlmannii</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Polycarpaea corymbosa</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polycarpaea grahamii</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Polycarpaea linearifolia</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Polygala abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Polygala albida</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Polygala amboniensis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Polygala erioptera</i>	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Polygala fischeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polygala kilimanjarica</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

<i>Polygala liniflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Polygala ohlendorfiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polygala petitiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Polygala sadebeckiana</i>	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Polygala senensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polygala sparsiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polygala sphenoptera</i>	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0
<i>Polygala stenoptera</i>	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0
<i>Polygonum</i>																
<i>afromontanum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polygonum amphibium</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Polygonum aviculare</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polygonum nepalense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polygonum pulchrum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polygonum salicifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Polygonum</i>																
<i>senegalense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polygonum setosulum</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
<i>Polygonum sinuatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polyphaeria parvifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Polyphlebium borbonicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polypogon monspeliensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Polypogon schimperianus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polyscias fulva</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Polyscias fulva</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polyscias kikuyuensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polyscias stuhlmannii</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Polysphaeria cleistocalyx</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polysphaeria multiflora</i>	0	0	0	0	0	1	0	0	1	1	0	1	0	0	0	0
<i>Polysphaeria parvifolia</i>	0	0	1	0	1	1	1	1	1	1	0	0	0	0	0	0
<i>Polystachya adansoniae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polystachya albescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Polystachya bella</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polystachya bennettiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polystachya bicarinata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polystachya caespitifica</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0

<i>Polystachya campyloglossa</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Polystachya confusa</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Polystachya cultriformis</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1
<i>Polystachya dendrobiiflora</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
<i>Polystachya disiformis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polystachya fusiformis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polystachya golungensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polystachya heckmanniana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polystachya inconspicua</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polystachya latilabris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Polystachya lindblomii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polystachya piersii</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Polystachya simplex</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polystachya spatella</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polystachya steudneri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polystachya stricta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polystachya tenuissima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Polystachya tessellata</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Polystachya transvaalensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Polystachya vaginata</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Polystichum discretum</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Polystichum fuscopaleaceum</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Polystichum setiferum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polystichum transvaalenses</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polystichum volkensisii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polystichum wrisonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Populus alba</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Populus ilicifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Portulaca commutata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Portulaca foliosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Portulaca kermesina</i>	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0
<i>Portulaca oleracea</i>	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0
<i>Portulaca quadrifida</i>	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0
<i>Portulaca wightiana</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Portulacaria afra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Potamogeton nodosus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Potamogeton octandrus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Potamogeton richardii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Potamogeton thunbergii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Potentilla hispanica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pouteria adolfi-friedericii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pouteria alnifolia</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Pouteria altissima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pouzolzia fadenii</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Pouzolzia parasitica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Premna angolensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Premna chrysoclada</i>	0	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0
<i>Premna discolor</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Premna hildebrandtii</i>	0	0	0	0	1	1	0	1	1	1	0	0	0	0	0	0
<i>Premna maxima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Premna oligotricha</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Premna resinosa</i>	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0
<i>Premna resinosa</i>	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0

<i>Premna senensis</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Prenanthes subpeltata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pristimera andongensis</i>	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Priva adhaerens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Priva cordifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Priva curtisiae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Priva curtisiae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prosopis africana</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prosopis juliflora</i>	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Protea caffra</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Protea gaguedi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Protea kilimandscharica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Protea madiensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prunus africana</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Pseudarthria confertiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Pseudarthria hookeri</i>	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
<i>Pseudechinolaena polystachya</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pseuderanthemum hildebrandtii</i>	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0

<i>Pseuderanthemum ludovicianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pseuderanthemum subviscosum</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Pseudobersama mossambicensis</i>	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
<i>Pseudocanthium pseudosetiflorum</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Pseudocarum eminii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pseudoconyza viscosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pseudocyclosorus pulcher</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Pseudognaphalium luteo-album</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Pseudognaphalium oligandrum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pseudosopubia elata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pseudosopubia hildebrandtii</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pseudospondias microcarpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pseudovigna argentea</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Psiadia punctulata</i>	0	1	0	0	0	1	0	0	1	0	0	1	0	0	1	1
<i>Psilotrichum elliotii</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Psilotrichum gnaphalobryum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Psilotrichum sceleranthum</i>	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Psilotrichum schimperi</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Psilotrichum sericeum</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Psilotum nudum</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Psoralea foliosa</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Psorospermum febrifugum</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Psychotria amboniana</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Psychotria amboniana</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Psychotria bagshawei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Psychotria capensis</i>	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0
<i>Psychotria crassipetala</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Psychotria faucicola</i>	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
<i>Psychotria fractinervata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Psychotria holtzii</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Psychotria kirkii</i>	1	1	0	0	0	0	0	0	0	0	1	1	1	0	1	1
<i>Psychotria lauracea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Psychotria lauracea</i>	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	0

<i>Psychotria leucopoda</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Psychotria mahonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Psychotria orophila</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1
<i>Psychotria peduncularis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Psychotria petitii</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Psychotria punctata</i>	0	0	1	0	1	1	0	1	1	1	0	0	0	0	0	0
<i>Psychotria punctata</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Psychotria tanganyicensis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Psydrax faulknerae</i>	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Psydrax livida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Psydrax parviflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Psydrax polhillii</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Psydrax recurvifolia</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Psydrax schimperiana</i>	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	1
<i>Psydrax schimperiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Pteleopsis tetraptera</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Pteridium aquilinum</i>	0	0	0	0	1	0	0	0	1	0	1	0	1	0	0	0
<i>Pteris auquieri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pteris buchananii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pteris catoptera</i>	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0

<i>Pteris cretica</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Pteris dentata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Pteris dentata</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
<i>Pteris friesii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pteris mohasiensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pteris muricella</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Pteris preussii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pteris pteridioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Pteris quadriaurita</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Pteris usambarensis</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Pteris vittata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pterocephalus frutescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Pterodiscus ruspolii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pteroglossaspis eustachya</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pteroglossaspis ruwenzoriensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pterolobium stellatum</i>	1	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0
<i>Punica granatum</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Pupalia lappacea</i>	0	1	1	1	1	0	0	1	1	1	1	0	0	0	0	0

<i>Pycnocomma littoralis</i>	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0
<i>Pycnostachys coerulea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pycnostachys deflexifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pycnostachys meyeri</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
<i>Pycnostachys speciosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pycnostachys stuhlmannii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pycnostachys umbrosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Pycnostachys umbrosa</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pycneus elegantulus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pycneus flavescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pycneus hildebrandtii</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Pycneus lanceolatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pycneus macrostachyus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pycneus mundtii</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pycneus polystachyos</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Pycneus pumilus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pygeum africanum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pyracantha angustifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Pyrenacantha kaurabassana</i>	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Pyrenacantha malvifolia</i>	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
<i>Pyrostria bibracteata</i>	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Pyrostria phyllanthoidea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Pyrostria phyllanthoidea</i>	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Pyrrosia schimperiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Quassia undulata</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Quisqualis littorea</i>	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
<i>Randia longiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rangaeris amaniensis</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1
<i>Rangaeris amaniensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rangaeris brachyceras</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rangaeris muscicola</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Ranunculus aberdaricus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ranunculus keniensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ranunculus multifidus</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Ranunculus oreophytus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ranunculus stagnalis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Ranunculus volkensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rapanea melanophloeos</i>	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0
<i>Raphanus raphanistrum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Raphia farinifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Raphidiocystis chrysocoma</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rauvolfia caffra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rauvolfia caffra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Rauvolfia mannii</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Rauvolfia mannii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Rauvolfia mombasiana</i>	0	0	1	0	0	1	1	1	1	1	0	0	0	0	0	0
<i>Rauvolfia rosea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ravenia spectabilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rawsonia lucida</i>	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	0
<i>Rawsonia lucida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Reichardia tingitana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Renealmia engleri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rhamnus prinoides</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Rhamnus staddo</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1

<i>Rhamphicarpa ajugifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Rhamphicarpa cameronianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Rhamphicarpa herzfeldianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
<i>Rhinacanthus ndorensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rhipidoglossum rutilum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rhipidoglossum subsimpler</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rhipsalis baccifera</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0
<i>Rhizophora mucronata</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Rhoicissus revoilii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Rhoicissus revoilii</i>	1	0	0	0	0	0	0	1	0	1	1	0	0	0	0	1
<i>Rhoicissus tridentate</i>	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Rhopalopilina umbellulata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Rhus glaucescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Rhus longipes</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Rhus longipes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Rhus natalensis</i>	1	1	1	0	0	1	1	1	1	1	1	0	1	1	1	1
<i>Rhus pyroides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Rhus ruspolii</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Rhus tenuinervis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rhus vulgaris</i>	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
<i>Rhynchelytrum repens</i>	1	1	0	0	0	0	0	0	0	0	1	0	1	0	1	1
<i>Rhynchelytrum scabridum</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Rhynchelytrum subglabrum</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rhynchosia alluaudii</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1
<i>Rhynchosia congensis</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Rhynchosia densiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Rhynchosia elegans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Rhynchosia hirta</i>	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Rhynchosia holstii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Rhynchosia kilimandischarica</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Rhynchosia kilimandscharica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rhynchosia malacophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rhynchosia minima</i>	0	0	1	1	0	0	0	1	1	0	0	0	1	0	0	1
<i>Rhynchosia nyasica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Rhynchosia orthobotrya</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rhynchosia resinosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rhynchosia sublobata</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Rhynchosia totta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Rhynchosia usambarensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Rhynchosia velutina</i>	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
<i>Rhynchosia verdcourtii</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Rhynchosia viscosa</i>	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0
<i>Richardia brasiliensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ricinus communis</i>	0	1	0	0	1	1	0	0	1	0	0	0	0	0	1	0
<i>Rikliella rehmannii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rinorea arborea</i>	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
<i>Rinorea brachypetala</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rinorea elliptica</i>	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
<i>Rinorea ilicifolia</i>	0	0	0	0	1	1	0	1	0	1	0	0	0	0	0	0
<i>Rinorea poggei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rinorea squamosa</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Ritchiea albersii</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Ritchiea capparoides</i>	0	0	1	0	1	0	0	1	1	1	0	0	0	0	0	0
<i>Roifia dictyocarpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Romulea camerooniana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Romulea fischeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Romulea keniensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rorippa micrantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rorippa microphylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rorippa nasturtium-aquaticum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rorippa nudiuscula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rotala repens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rotala tenella</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rothea myricoides</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Rothmannia fischeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Rothmannia fischeri</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rothmannia longiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rothmannia macrosiphon</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Rothmannia manganjae</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rothmannia urcelliformis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Rottboellia cochinchinensis</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0

<i>Rourea coccinea</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Rourea orientalis</i>	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0
<i>Rourea thomsonii</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Rubia cordifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Rubus adolfi-friederici</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
<i>Rubus apetalus</i>	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Rubus friesiorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rubus keniensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rubus niveus</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Rubus pinnatus</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rubus rigidus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Rubus scheffleri</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Rubus steudneri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rubus volkensii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ruellia megachlamys</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Ruellia patula</i>	0	1	1	0	1	0	0	1	1	1	0	0	0	0	0	0
<i>Ruellia rivularis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rumex abyssinicus</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
<i>Rumex bequaertii</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Rumex nepalensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Rumex ruwenzoriensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rumex steudelii</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Rumex usambarensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Rutidea fuscescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rutidea orientalis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rutidea smithii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rutidea syringoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ruttya fruticosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Rytigynia acuminatissima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rytigynia bugoyensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rytigynia celastroides</i>	1	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Rytigynia decussata</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Rytigynia eickii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rytigynia mrimaensis</i>	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
<i>Rytigynia neglecta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rytigynia uhligii</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0
<i>Saba comorensis</i>	1	1	1	0	1	1	1	1	1	0	0	1	0	0	0	0
<i>Saccharum spontaneum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sacciolepis curvata</i>	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0

<i>Sacleuxia newii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Sacleuxia tuberosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sagina abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sagina afroalpina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Saintpaulia teitensis</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Salacia cerasifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Salacia elegans</i>	0	0	1	0	1	1	1	1	1	1	0	0	0	0	0	0
<i>Salacia erecta</i>	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0
<i>Salacia lehmbachii</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Salacia leptoclada</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Salacia madagascariensis</i>	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Salacia stuhlmanniana</i>	0	0	1	0	1	1	1	0	1	1	0	0	0	0	0	0
<i>Salicornia pachystachya</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Salix mucronata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Salsola dendroides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Salvadora persica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Salvadora persica</i>	0	0	0	1	0	0	0	0	1	1	1	0	0	0	0	0
<i>Salvia coccinea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Salvia involucrata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Salvia leucantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Salvia merjamie</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Salvia nilotica</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Sambucus africana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sanicula elata</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
<i>Sansevieria arborescens</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Sansevieria conspicua</i>	1	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0
<i>Sansevieria ehrenbergii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sansevieria forskaoliana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sansevieria gracilis</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Sansevieria intermedia</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sansevieria kirkii</i>	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0
<i>Sansevieria longiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sansevieria parva</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Sansevieria powellii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sansevieria raffillii</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sansevieria robusta</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sansevieria suffruticosa</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sapium ellipticum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Sarcophyte sanguinea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Sarcostemma andongense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sarcostemma viminale</i>	0	1	0	0	0	0	0	0	0	1	0	1	0	0	1	1
<i>Satureja abyssinica</i>	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Satureja biflora</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1
<i>Satureja pseudosimensis</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Satureja uhligii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Satyrium carsonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Satyrium coriophoroides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Satyrium crassicaule</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Satyrium fimbriatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Satyrium macrophyllum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Satyrium robustum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Satyrium sceptrum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Satyrium volkensii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Scabiosa columbaria</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Scadoxus multiflorus</i>	0	0	0	0	1	1	0	1	1	1	1	0	0	0	0	0
<i>Schefflera abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Schefflera myriantha</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0

<i>Schefflera volkensii</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1
<i>Schizostephanus alatus</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Schizozygia coffaeoides</i>	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0
<i>Schkuhria pinnata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Schlechterella africana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Schlechterina mitostemmatoides</i>	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
<i>Schoenefeldia transiens</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Schoeneplectiella lateriflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Schoenoplectiella articulata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Schoenoplectus confusus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Schoenoxiphium lehmannii</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Schrebera alata</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
<i>Schrebera arborea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Scilla indica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Scilla kirkii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Scirpus confusus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Scirpus costatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Scirpus fluitans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Scirpus maritimus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Scirpus setaceus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Scleranthus annuus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Scleria bulbifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Scleria distans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Scleria foliosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Scleria lithosperma</i>	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0
<i>Sclerocarya birrea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Sclerocarya birrea</i>	1	0	0	0	0	1	0	1	1	0	0	0	1	0	0	0
<i>Sclerocarya gillettii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sclerochiton boivini</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Sclerochiton vogelii</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Scolopia rhamniphylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Scolopia rhamniphylla</i>	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
<i>Scolopia zeyheri</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Scorodophloeus fischeri</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Scutellaria paucifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Scutellaria schweinfurthii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Scutia myrtina</i>	1	0	0	0	0	0	0	1	0	0	1	0	1	0	1	1

<i>Sebaea brachyphylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Sebaea grandis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Sebaea pentandra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sebaea pumila</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Secamone attenuifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Secamone parvifolia</i>	0	0	0	0	1	1	0	1	1	1	0	0	0	0	0	0
<i>Secamone punctulata</i>	1	0	0	0	0	1	0	0	1	0	1	0	0	0	0	1
<i>Secamone retusa</i>	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0
<i>Securidaca</i>																
<i>longipedunculata</i>	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
<i>Securidaca welwitschii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Securinea virosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Seddera arabica</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Seddera bagshawei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Seddera hirsuta</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Seddera latifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sedum crassularia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sedum meyeri-johannis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Sedum ruwenzoriense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sehima nervosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Selaginella caffrorum</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Selaginella abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Selaginella dregei</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Selaginella dregei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Selaginella eublepharis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Selaginella goudotiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Selaginella kraussiana</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Selaginella mittenii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Selaginella perpusilla</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Selaginella phillipsiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Selaginella wightii</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Selago thomsonii</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Senecio battiscombei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Senecio brassica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Senecio citrifolius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Senecio deltoideus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Senecio discifolius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Senecio hadiensis</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Senecio hochstetteri</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Senecio jacksonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Senecio keniodendron</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Senecio keniophytum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Senecio lyratripartitus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Senecio moorei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Senecio petitianus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Senecio purtschelleri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Senecio roseiflorus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Senecio ruwenzoriensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Senecio schweinfurthii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Senecio snowdenii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Senecio stuhlmannii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Senecio subsessilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Senecio syringifolius</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1
<i>Senecio transmarinus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Senecio trichopterygius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Senecio ukambensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Senecio vulgaris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Senna alexandrina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Senna bicapsularis</i>	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0
<i>Senna didymobotrya</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Senna italica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Senna longiracemosa</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Senna obtusifolia</i>	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0
<i>Senna occidentalis</i>	0	0	1	1	1	1	0	0	1	0	0	0	0	0	0	0
<i>Senna septemtrionalis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Senna singueana</i>	0	1	0	0	1	1	1	1	1	0	0	0	1	0	0	0
<i>Senna spectabilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Senra incana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sericocomopsis hildebrandtii</i>	0	0	0	1	0	0	0	0	0	0	1	0	1	0	0	0
<i>Sericocomopsis pallida</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Sericostachys scandens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Seriphium kilimandscharicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sesamothamnus busseanus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sesamothamnus rivae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sesamum alatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sesamum angolense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sesamum angustifolium</i>	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Sesamum calycinum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sesamum latifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Sesbania bispinosa</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Sesbania dummeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sesbania keniensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Sesbania quadrata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Sesbania sericea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sesbania sesban</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sesuvium portulacastrum</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Sesuvium sesuvioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Setaria acromelaena</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Setaria appendiculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Setaria chevalieri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Setaria geminata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Setaria homonyma</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Setaria incrassata</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
<i>Setaria italica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Setaria longisetia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Setaria megaphylla</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Setaria orthosticha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Setaria pallide-fusca</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Setaria petiolata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Setaria plicatilis</i>	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
<i>Setaria poiretiana</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Setaria pumila</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Setaria sphacelata</i>	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Setaria verticillata</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Shirakiopsis elliptica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sibthorpia europaea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sida acuta</i>	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0
<i>Sida alba</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sida cordifolia</i>	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0
<i>Sida ovata</i>	0	1	0	1	1	0	0	1	0	0	0	0	0	0	1	1
<i>Sida rhombifolia</i>	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
<i>Sida schimperiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Sida tenuicarpa</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
<i>Sida ternata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Sideroxylon inerme</i>	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0
<i>Siegesbeckia abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Silene burchellii</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Silene gallica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Silene macrosolen</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0

<i>Simicratea welwitschii</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Simirestis brianii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Simirestis goetzei</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Simirestis scheffleri</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Sinarundinaria alpina</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Smilax anceps</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Smilax aspera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Smithia elliotii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Solanecio angulatus</i>	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Solanecio cydoniifolius</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Solanecio mannii</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Solanecio mannii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Solanecio nandensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Solanum aculeastrum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Solanum aculeatissimum</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Solanum anguivi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Solanum arundo</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Solanum benderianum</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Solanum campylacanthum</i>	1	1	1	1	0	0	0	0	1	0	1	0	1	0	1	1

<i>Solanum coagulans</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Solanum giganteum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Solanum goetzei</i>	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0
<i>Solanum hastifolium</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Solanum indicum</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1
<i>Solanum laxum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Solanum macrocarpon</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Solanum mauense</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Solanum mauritianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Solanum nigriviolaceum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Solanum nigrum</i>	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	1
<i>Solanum phuxocarpum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Solanum pseudocapsicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Solanum renschii</i>	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Solanum richardii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Solanum runsoriense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Solanum schumannianum</i>	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
<i>Solanum sepicula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Solanum sessilistellatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Solanum setaceum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Solanum somalense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Solanum taitense</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Solanum terminale</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1
<i>Solanum tettense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Solanum tuberosum</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Solanum usaramense</i>	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
<i>Solanum violaceum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Solanum wendlandii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Solanum zanzibarense</i>	0	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0
<i>Solenangis aphylla</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Solenangis wakefieldii</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Solenostemon autranii</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Solenostemon rotundifolius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sonchus afromontanus</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Sonchus asper</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sonchus luxurians</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Sonchus oleraceus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Sonchus schweinfurthii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sonchus stenophyllus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Sonneratia alba</i>	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
<i>Sopubia karaguensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Sopubia ramosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Sopubia simplex</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sorghastrum stipoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Sorghum arundinaceum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sorghum versicolor</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Sorghum verticilliflorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sorghum virgatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sorindeia madagascariensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Sorindeia madagascariensis</i>	0	0	1	0	1	1	1	1	1	0	1	1	0	0	0	0
<i>Sparrmannia ricinocarpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Spathodea campanulata</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Spathodea nilotica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Spergula arvensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Spermacoce</i>																
<i>chaetocephala</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Spermacoce filituba</i>	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Spermacoce laevis</i>	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Spermacoce princeae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Spermacoce pusilla</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Spermacoce senensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Spermacoce</i>																
<i>sphaerostigma</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Spermacoce subvulgata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphaeranthus bullatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Sphaeranthus</i>																
<i>confertifolius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Sphaeranthus</i>																
<i>gomphrenoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphaeranthus</i>																
<i>greenwayi</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Sphaeranthus kirkii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphaeranthus napierae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Sphaeranthus steetzii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphaeranthus</i>																
<i>suaveolens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Sphaeranthus ukambensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Sphaeranthus zavatarii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphaerocodon caffrum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphaerocoryne gracilis</i>	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0
<i>Sphaerothylox abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphenostylis stenocarpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Spilanthes mauritiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Spirostachys africana</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Spirostachys venenifera</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sporobolus africanus</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
<i>Sporobolus agrostoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Sporobolus confinis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sporobolus consimilis</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sporobolus cordofanus</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sporobolus discosporus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Sporobolus festivus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sporobolus fimbriatus</i>	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1
<i>Sporobolus geminatus</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0

<i>Sporobolus helvolus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sporobolus indicus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sporobolus ioclados</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sporobolus macranthelus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Sporobolus marginatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sporobolus panicoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sporobolus pellucidus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sporobolus piliferus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sporobolus pyramidalis</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1
<i>Sporobolus rangei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sporobolus spicatus</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sporobolus stapfianus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sporobolus stolzii</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Sporobolus tenuissimus</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Sporobolus virginicus</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Stachys aculeolata</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Stachys hildebrandtii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Stachys pseudonigricans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Stachytarpheta</i> <i>urticifolia</i>	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
<i>Stadmannia</i> <i>oppositifolia</i>	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
<i>Stapelia gigantea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Stathmosteima</i> <i>pedunculatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Stathmosteima</i> <i>praetermissum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Stathmostelma</i> <i>pedunculatum</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Stathmostelma</i> <i>rhacodes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Steganotaenia</i> <i>araliacea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Steganotaenia</i> <i>araliacea</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Stegnogramma pozoi</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Stellaria mannii</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Stellaria media</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Stellaria sennii</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Stemodia serrata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Stemodiopsis rivae</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Stenogrammitis strangeana</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Stenostelma trident</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Stenotaphrum dimidiatum</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Stephania abyssinica</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Stephania cyanantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Stephania tomentella</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sterculia africana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Sterculia africana</i>	0	1	1	0	1	0	0	1	1	0	0	0	0	0	0	0
<i>Sterculia appendiculata</i>	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0
<i>Sterculia rhynchocarpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sterculia schliebenii</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Sterculia stenocarpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Stereospermum kunthianum</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Stictocardia beraviensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Stictocardia incomta</i>	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Stipa dregeana</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
<i>Stipa keniensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Stipagrostis hirtigluma</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Stipagrostis uniplumis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Stoebe</i>																
<i>kilimandscharica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Stolzia repens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Stomatanthes africanus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Streblus usambarensis</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Streptocarpus</i>																
<i>caulescens</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0
<i>Streptocarpus</i>																
<i>glandulosissimus</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Streptocarpus kirkii</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Streptocarpus</i>																
<i>montanus</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Streptocarpus saxorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Streptocarpus</i>																
<i>suffruticosus</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Streptopetalum</i>																
<i>hildebrandtii</i>	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Streptopetalum</i>																
<i>serratum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Streptosolen jamesonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Striga asiatica</i>	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	1
<i>Striga elegans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Striga forbesii</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Striga gesnerioides</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Striga hermonthica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Striga latericea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Striga linearifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Strombosia scheffleri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Strombosia scheffleri</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
<i>Strombosiopsis pentamera</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Strophanthus courmontii</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Strophanthus kombe</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Strophanthus mirabilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Strophanthus petersianus</i>	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
<i>Struthiola thomsonii</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Strychnos decussata</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
<i>Strychnos henningsii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Strychnos henningsii</i>	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	1
<i>Strychnos madagascariensis</i>	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0
<i>Strychnos mitis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

<i>Strychnos panganensis</i>	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Strychnos spinosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Strychnos spinosa</i>	1	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0
<i>Strychnos usambarensis</i>	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0
<i>Strychnos xylophylla</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Stuckenia pectinata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Stylochaeton salaamicus</i>	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0
<i>Stylosanthes fruticosa</i>	1	0	0	1	1	0	0	1	0	1	0	0	0	0	0	0
<i>Suaeda monoica</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Subularia monticola</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Suregada procera</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Suregada zanzibariensis</i>	0	0	1	0	1	0	0	1	1	1	0	0	0	1	0	0
<i>Swertia crassiuscula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Swertia kilimandscharica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Swertia lugardae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Swertia scandens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Swertia subnivalis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Swertia uniflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Swertia usambarensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Swertia volkensii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Swietenia mahogani</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Synadenium compactum</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Synadenium compactum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Synadenium glaucescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Synadenium grantii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Synadenium molle</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Synadenium pereskiaefolium</i>	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0
<i>Synaptolepis kirkii</i>	0	0	1	0	1	1	1	1	1	1	0	0	0	0	0	0
<i>Synedrella nodiflora</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Synsepalum brevipes</i>	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
<i>Synsepalum cerasiferum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Synsepalum subverticillatum</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Syzygium cordatum</i>	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
<i>Syzygium cumini</i>	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0

<i>Syzygium guineense</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0
<i>Tabernaemontana elegans</i>	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0
<i>Tabernaemontana pachysiphon</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
<i>Tabernaemontana stapfiana</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
<i>Tabernaemontana stapfiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Tabernaemontana ventricosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tacazzea apiculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tacazzea conferta</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Tacazzea galactogoga</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Tacca leontopetaloides</i>	0	0	1	0	0	1	1	0	1	0	0	0	0	0	0	0	0
<i>Taccazea apiculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Taccazea galactoga</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Tagetes minuta</i>	0	1	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1
<i>Talinum portulacifolium</i>	1	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0
<i>Tallnum caffrum</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Tamarindus indica</i>	0	1	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0
<i>Tamarindus indica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0

<i>Tamarix nilotica</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tapinanthus aurantiacus</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Tapinanthus kayseri</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Tapinanthus sansibarensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Tapinanthus zizyphifolius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Tapiphyllum schumannianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Tapiphyllum schumannianum</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tapura fischeri</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Tarchonanthus camphoratus</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Tarenna drummondii</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Tarenna graveolens</i>	0	1	0	0	0	0	0	0	0	1	1	0	0	0	1	1
<i>Tarenna graveolens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Tarenna nigrescens</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Tarenna pavettoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tarenna supra-axillaris</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Taxillus wiensii</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

<i>Teclea grandifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Teclea hanangensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Teclea nobilis</i>	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
<i>Teclea simplicifolia</i>	0	0	0	0	0	1	0	0	0	0	1	0	1	0	1	1
<i>Teclea trichocarpa</i>	1	0	0	0	0	0	0	1	0	1	0	0	0	1	1	1
<i>Tecoma capensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Tectaria gemmifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Tectaria gemmifera</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Tenaris rostrata</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Tennantia sennii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Tennantia sennii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tephrosia athensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Tephrosia elata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tephrosia emeroides</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Tephrosia hildebrandtii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Tephrosia holstii</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Tephrosia interrupta</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1
<i>Tephrosia linearis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Tephrosia lurida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tephrosia noctiflora</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0

<i>Tephrosia nubica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tephrosia paniculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tephrosia pumila</i>	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0
<i>Tephrosia purpurea</i>	0	0	1	0	0	0	0	1	1	1	0	0	0	0	0	0
<i>Tephrosia rhodesica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tephrosia subtriflora</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Tephrosia uniflora</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Tephrosia villosa</i>	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0
<i>Tephrosia vogelii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Teramnus labialis</i>	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	1
<i>Teramnus repens</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Teramnus uncinatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Terminalia boivinii</i>	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0
<i>Terminalia brevipes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Terminalia brownii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Terminalia brownii</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Terminalia catappa</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Terminalia kilimandscharica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Terminalia mollis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Terminalia orbicularis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Terminalia parvula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Terminalia prunioides</i>	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0
<i>Terminalia prunioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Terminalia sambesiaca</i>	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0
<i>Terminalia spinosa</i>	0	1	1	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Tetracera boiviniana</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Tetracera litoralis</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Tetracera potatoria</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tetradenia riparia</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tetraena simplex</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tetragonia acanthocarpus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tetrapleura tetraptera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tetrapogon cenchriformis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tetrapogon spathaceus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tetrapogon tenellus</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thalictrum rhynchocarpum</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Thecacoris usambarensis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Thelypteris bergiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Thelypteris dentata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thelypteris gueintiziana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Thelypteris gueintziana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Thelypteris hispidula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thelypteris longicuspis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thelypteris madagascariensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thelypteris patens</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Thelypteris quadrangularis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thelypteris zambesiaca</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Themeda triandra</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
<i>Thesium kilimandscharicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thesium radicans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thesium schweinfurthii</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Thesium stuhlmannii</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Thesium subaphyllum</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Thespesia danis</i>	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0
<i>Thespesia garkeana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thespesia populnea</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

<i>Thevetia peruviana</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Thonningia sanguinea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thunbergia alata</i>	1	0	0	0	1	0	0	1	0	0	1	1	1	0	1	1
<i>Thunbergia elliotii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thunbergia fasciculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thunbergia fischeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thunbergia gibsonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thunbergia gregorii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Thunbergia guerkeana</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thunbergia holstii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Thunbergia kirkii</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Thunbergia napperae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thunbergia natalensis</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thunbergia paulitschkeana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thunbergia petersiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thunbergia schimbensis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Thunbergia sericea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Thunbergia tsavoensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thunbergia usambarica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thylachium africanum</i>	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0

<i>Thylachium thomasii</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Tibouchina viminea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tieghemia friesiorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tieghemia sulfurea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Tiliacora funifera</i>	0	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0
<i>Tiliacora kenyensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tinnea aethiopica</i>	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0
<i>Tinnea aethiopica</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Tinnea aethiopica</i>	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1
<i>Tinospora caffra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tinospora oblongifolia</i>	0	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0
<i>Tithonia diversifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
<i>Toddalia asiatica</i>	0	0	0	0	1	1	0	0	1	0	0	0	1	0	1	1
<i>Toddaliopsis sansibarensis</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Tolpis capensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Torenia thouarsii</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Torilis arvensis</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Trachyandra saltii</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Trachypermum aethusifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0

<i>Tragia benthamii</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Tragia brevipes</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Tragia furialis</i>	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0
<i>Tragia hildebrandtii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tragia kirkiana</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Tragia plukenetii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tragiella natalensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Tragus bertonianus</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trema guineensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trema orientalis</i>	1	0	0	0	1	1	1	0	1	0	0	0	1	0	1	0
<i>Triainolepis africana</i>	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
<i>Trianthema portulacastrum</i>	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0
<i>Trianthema triquetra</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Triaspis mozambica</i>	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0
<i>Triaspis niedenzuiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tribulus cistoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tribulus parvispinus</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Tribulus terrestris</i>	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0
<i>Tribulus zeyheri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tricalysia ovalifolia</i>	0	0	1	0	1	1	0	1	1	1	0	0	0	1	0	0

<i>Tricalysia ovalifolia</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Tricalysia pallens</i>	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0
<i>Triceratorhynchus viridiflorus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trichilia dregeana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trichilia emetica</i>	0	1	1	0	1	1	1	1	1	0	0	0	0	0	0	0
<i>Trichilia emetica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Trichilia roka</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trichilia strigulosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trichocalyx mwasumbii</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Trichocladus ellipticus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
<i>Trichodesma hildebrandtii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trichodesma physaloides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trichodesma zeylanicum</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tricholaena teneriffae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Trichomanes borbonicum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Trichomanes chevalieri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Trichomanes erosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0

<i>Trichomanes mannii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Trichomanes melanotrichum</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
<i>Trichomanes pyxidiferum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trichomanes ramitrichum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trichomanes rigidum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Triclisia sacleuxii</i>	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
<i>Tridactyle anthomaniaca</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tridactyle bicaudata</i>	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	1
<i>Tridactyle cruciformis</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Tridactyle filifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tridactyle furcistipes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tridactyle scottellii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tridactyle tridentata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tridax procumbens</i>	0	0	1	1	1	1	0	1	1	0	0	1	0	0	0	0
<i>Trifolium acaule</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trifolium baccarinii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trifolium burchellianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Trifolium cryptopodium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Trifolium lanceolatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trifolium lugardii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trifolium multinerve</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trifolium pratense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trifolium rueppellianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Trifolium semipilosum</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1
<i>Trifolium simense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trifolium steudneri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trifolium tembense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trifolium usambarense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trilepisium madagascariense</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Trimeria grandifolia</i>	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0
<i>Trimeria tropica</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Tripogon major</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tripteris vaillantii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trisetopsis elongata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trisetopsis milanjana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trisetopsis umbrosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tristania conferta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

<i>Tristemma</i>																
<i>mauritanum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tristicha trifaria</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Triumfetta annua</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
<i>Triumfetta brachyceras</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Triumfetta flavescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Triumfetta longicornuta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Triumfetta macrophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Triumfetta pentandra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Triumfetta rhomboidea</i>	1	0	1	0	1	0	0	1	1	1	0	0	0	0	1	0
<i>Triumfetta</i>																
<i>ruwenzoriensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Triumfetta tomentosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Trochomeria</i>																
<i>macrocarpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Turbina stenosiphon</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Turraea abyssinica</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Turraea cornucopia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Turraea floribunda</i>	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0
<i>Turraea holstii</i>	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Turraea mombassana</i>	1	0	0	0	1	0	0	1	0	1	0	0	0	0	0	1

<i>Turraea nilotica</i>	0	0	1	0	1	1	0	1	1	0	0	0	0	0	0	0
<i>Turraea robusta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Turraea robusta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Turraea vogelioides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Turraea wakefieldii</i>	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0
<i>Turritis glabra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tylophora heterophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tylophora sp</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Tylosema fassoglensis</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Typha domingensis</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Uebelinia crassifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Uebelinia rotundifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Umbilicus botryoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Uncaria africana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Urena lobata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Urera cameroonensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Urera hypselodendron</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Urera sansibarica</i>	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0
<i>Urera trinervis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Urginea altissima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

<i>Urochloa brachyura</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
<i>Urochloa jubata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Urochloa mosambicensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Urochloa oligotricha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Urochloa panicoides</i>	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
<i>Urochloa setigera</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Urochloa trichopus</i>	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
<i>Urtica massaica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Utricularia arenaria</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Utricularia gibba</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Utricularia inflexa</i>	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
<i>Utricularia livida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Uvaria acuminata</i>	0	0	0	0	1	1	0	1	1	1	0	0	0	0	0	0
<i>Uvaria acuminata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Uvaria leptocladon</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Uvaria lucida</i>	1	0	1	0	1	1	1	1	0	1	0	1	0	0	0	0
<i>Uvaria puguensis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Uvaria scheffleri</i>	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0
<i>Uvaria welwitschii</i>	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
<i>Uvariadendron kirkii</i>	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0

<i>Uvariiodendron anisatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Uvariiodendron gorgonis</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Uvariiodendron kirkii</i>	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0
<i>Uvariopsis congensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Valeriana capensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Valeriana kilimandscharica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Valeriana volkensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Valerianella microcarpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vandenboschia melanotricha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vangueria apiculata</i>	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Vangueria infausta</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Vangueria linearisepala</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
<i>Vangueria madagascariensis</i>	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Vangueria madagascariensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Vangueria randii</i>	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0
<i>Vangueria volkensis</i>	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

<i>Vanilla polylepis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vanilla roscheri</i>	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
<i>Vatovaea pseudolablab</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ventilago diffusa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vepris amaniensis</i>	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0
<i>Vepris eugeniifolia</i>	1	0	0	0	0	1	0	1	1	1	0	0	1	1	0	0
<i>Vepris glandulosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vepris glomerata</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Vepris robertsonae</i>	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0
<i>Vepris sansibarensis</i>	0	0	0	0	0	1	1	1	1	0	1	0	0	0	0	0
<i>Verbascum brevipedicellatum</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1
<i>Verbascum scrophulariifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Verbascum sinaiticum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Verbena bonariensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Verbena officinalis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Verbena rigida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vernonia adoensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vernonia aemulans</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0

<i>Vernonia albocinerascens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vernonia amygdalina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vernonia aurantiaca</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vernonia biafrae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vernonia brachycalyx</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
<i>Vernonia calvoana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vernonia campanea</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Vernonia cinerascens</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vernonia cinerea</i>	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0
<i>Vernonia conferta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vernonia dummeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Vernonia fischeri</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vernonia galamensis</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
<i>Vernonia glabra</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Vernonia hildebrandtii</i>	0	0	1	0	0	1	1	1	1	0	0	0	0	0	0	0
<i>Vernonia hochstetteri</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Vernonia holstii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
<i>Vernonia homilantha</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Vernonia hymenolepis</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Vernonia ituriensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Vernonia jugalis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Vernonia karaguensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vernonia lasiopus</i>	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
<i>Vernonia pauciflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
<i>Vernonia popeana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vernonia stenolepis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Vernonia syringifolia</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Vernonia tufnelliae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vernonia wollastonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vernonia zanzibarensis</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Veronica abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Veronica anagallis-aquatica</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
<i>Veronica glandulosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Veronica gunae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Veronica javanica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Veronica speciosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vicia benghalensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vicia faba</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vicia hirsuta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vicia paucifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Vicia sativa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vigna friesiorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Vigna frutescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vigna heterophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vigna hosei</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Vigna luteola</i>	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vigna macrorhyncha</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Vigna maranguensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vigna membranacea</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0
<i>Vigna oblongifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vigna parkeri</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Vigna radiata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vigna schimperi</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1
<i>Vigna triphylla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vigna unguiculata</i>	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0
<i>Vigna vexillata</i>	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Viola abyssinica</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
<i>Viola eminii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Viola nannae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Viscum combreticola</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Viscum fischeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Viscum hildebrandtii</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Viscum schimperi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Viscum triflorum</i>	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1
<i>Viscum tuberculatum</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
<i>Vismia orientalis</i>	0	0	1	0	1	0	0	1	1	1	0	0	0	0	0	0
<i>Vitellariopsis kirkii</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Vitex buchananii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vitex doniana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vitex ferruginea</i>	0	0	1	0	1	0	0	0	1	1	0	0	0	0	0	0
<i>Vitex fischeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vitex keniensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vitex mombassae</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Vitex payos</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vitex strickeri</i>	0	0	0	0	1	0	0	1	0	1	0	0	0	0	1	0
<i>Vittaria guineensis</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Vittaria guineensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Vittaria isoetifolia</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
<i>Vittaria volkensii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Voacanga thouarsii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Volkensinia prostrata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Volutaria lippii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Vossia cuspidata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vulpia bromoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Wahlenbergia abyssinica</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Wahlenbergia capillacea</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Wahlenbergia hirsuta</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Wahlenbergia krebsii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Wahlenbergia lobelioides</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
<i>Wahlenbergia napiformis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Wahlenbergia pusilla</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Wahlenbergia scottii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Wahlenbergia virgata</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
<i>Waltheria indica</i>	1	0	1	1	1	0	0	1	1	1	0	0	0	0	1	0
<i>Warburgia ugandensis</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Warneckia amaniensis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Whitfieldia elongata</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Widdringtonia whytei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Withania somnifera</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Woodfordia uniflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Wrightia demartiniana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Wurmbea tenuis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Xanthium strumarium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Xerophyta schnizleinia</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Xerophyta spekei</i>	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0
<i>Ximenia americana</i>	1	1	1	0	0	0	0	1	1	1	0	1	0	0	0	1
<i>Xiphopteris flabelliformis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Xiphopteris strangeana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Xylocarpus moluccensis</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<i>Xylopia parviflora</i>	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0
<i>Xylopia arenaria</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Xylopia longipetala</i>	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0
<i>Xylothea tettensis</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<i>Xymalos monospora</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0
<i>Xyris capensis</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Xyris straminea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Xysmalobium heudelotianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<i>Xysmalobium undulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Zaleya pentandra</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Zamioculcas zamiifolia</i>	0	0	1	0	0	1	1	1	1	1	0	0	0	0	0	0
<i>Zanha africana</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Zanha golungensis</i>	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0
<i>Zanthoxylum chalybeum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Zanthoxylum chalybeum</i>	0	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0
<i>Zanthoxylum gillettii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Zanthoxylum holtzianum</i>	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
<i>Zanthoxylum mildbraedii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Zanthoxylum paracanthum</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Zanthoxylum rubescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Zanthoxylum usambarense</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Zehneria anomala</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Zehneria minutiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Zehneria pallidinervia</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0

<i>Zehneria scabra</i>	0	1	0	0	0	0	0	0	0	0	0	1	1	0	1	0
<i>Zehneria thwaitesii</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Zeuxine elongata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ziziphus abyssinica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Ziziphus mauritiana</i>	0	0	1	0	0	1	0	0	1	1	0	0	0	0	0	0
<i>Ziziphus mucronata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Ziziphus mucronata</i>	0	1	1	1	1	1	0	1	0	1	1	0	0	0	0	0
<i>Ziziphus pubescens</i>	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
<i>Ziziphus robertsoniana</i>	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0
<i>Zornia apiculata</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Zornia capensis</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
<i>Zornia glochidiata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Zornia pratensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Zornia setosa</i>	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1
<i>Zygophlebia devoluta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Zygophyllum simplex</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Appendix 2. Matrix of the climatic variables of the BIOCLIM for sites used in characterization of the vegetation of Kenya plant communities

Sites	Mean annual temperature (°C)	Mean diurnal range (°C)	Isothermality	Temperature seasonality	Mean maximum temperature of the warmest month (°C)	Mean minimum temperature of the coldest month (°C)	Temperature annual range (°C)	Mean temperature of the wettest quarter (°C)	Mean temperature of the driest quarter (°C)	Mean temperature of the warmest quarter (°C)
Mumoni (Mum)	20.2	15.9	0.08	1.147	30.2	10.4	19.8	20.7	18.4	21.4
Bogoria (Bo)	24.0	16.2	0.087	0.631	33.5	15.0	18.5	24.7	24.1	24.8
L. Kenyatta (L.Ke)	26.8	7.1	0.068	1.036	31.8	21.4	10.4	26.9	27.7	28.1
L. Jipe (L.Ji)	22.9	11.7	0.07	1.628	31.9	15.2	16.7	23.6	20.8	24.7
Mrima (Mri)	25.9	8.8	0.065	1.507	32.8	19.4	13.4	25.6	27.5	27.7
Kinondo(Kin)	26.2	8.4	0.065	1.442	32.9	20.0	12.9	26.0	27.6	27.9
Jibana(Ji)	25.3	8.1	0.065	1.387	31.9	19.5	12.4	25.1	26.8	26.9
Shimba hills (Sh)	23.8	8.4	0.065	1.442	30.6	17.7	12.9	23.6	25.5	25.5
Shimoni (Shi)	26.4	8.6	0.065	1.478	33.0	19.9	13.1	26.1	27.8	28.1
Arabuko (Ar)	25.6	8.2	0.068	1.22	32.0	20.0	12.0	25.6	26.8	27.0
Mt. Nyiro (Mt.N)	18.0	15.3	0.084	0.911	27.7	9.6	18.1	18.9	16.8	19.1
Taita hills (Tai)	18.5	10.4	0.068	1.492	26.6	11.5	15.1	19.0	16.5	20.3
Chyulu (Chy)	18.6	11.4	0.071	1.375	26.9	11.0	15.9	19.0	16.6	20.1
Kasigau (Kas)	22.2	10.2	0.068	1.536	30.2	15.2	15.0	22.7	20.2	24.0
Karura (Kar)	18.7	12.1	0.072	1.256	27.5	10.9	16.6	19.6	17.1	20.0
Ngong forest (Ng)	17.5	11.5	0.072	1.216	25.7	9.9	15.8	18.5	15.9	18.8
KF region (KF)	28.8	11.7	0.079	0.829	37.1	22.4	14.7	29.1	28.3	30.0
Marsabit (Mar)	21.8	15.4	0.083	0.91	31.4	12.9	18.5	22.6	20.6	22.9
Kiang'ombe hill (Kia)	20.7	16.8	0.082	1.034	31.2	10.9	20.3	21.2	19.2	21.8
Aberderes (Abe)	11.2	12.8	0.079	0.652	19.7	3.5	16.2	12.0	11.2	12.0

Mt. Kenya (Mt. K)	13.8	13.8	0.079	0.646	22.8	5.5	17.3	14.6	13.0	14.6
Mt Elgon (Mt. E)	14.2	13.0	0.084	0.677	22.8	7.4	15.4	13.3	14.7	15.1
Ng'utwa (Ng')	20.8	13.2	0.076	1.271	29.7	12.4	17.3	21.2	19.1	22.1
Bura (Bu)	27.4	11.1	0.07	1.355	35.4	19.7	15.7	27.7	25.5	29.0
Kakamega forest (Kak)	19.9	16.6	0.087	0.714	29.6	10.7	18.9	19.8	20.5	20.7
Nandi North (Na. N)	17.5	16.2	0.086	0.794	27.4	8.7	18.7	17.5	18.0	18.5
Nandi South (Na. S)	18.2	16.0	0.087	0.749	27.8	9.5	18.3	18.0	18.7	19.1
Cheragany (Che)	15.2	14.4	0.085	0.647	24.3	7.5	16.8	15.4	15.4	16.0
Mutha (Muth)	23.3	12.7	0.076	1.275	31.8	15.2	16.6	23.7	21.4	24.8
Endau (End)	24.2	13.5	0.078	1.194	32.9	15.7	17.2	24.6	22.3	25.5
Nuu (Nu)	22.6	14.0	0.078	1.176	31.6	13.8	17.8	23.0	20.8	23.8
Mutito (Muti)	22.0	13.9	0.078	1.181	31.0	13.4	17.6	22.4	20.2	23.3

Appendix 2. cont'

Sites	Mean temperature of the coldest quarter	Mean annual precipitation (mm)	Precipitation of the wettest month	Precipitation of the driest month	Precipitation seasonality	Precipitation of wettest quarter	Precipitation of driest quarter	Precipitation of warmest quarter	Precipitation of coldest quarter
Mumoni	18.4	963	276	3	108	483	13	370	13
Bogoria	23.2	720	96	28	37	237	105	181	223
L. Kenyatta	25.4	1014	297	6	89	578	52	172	192
L. Jipe	20.6	608	133	7	79	293	24	177	25
Mrima	24.0	1141	255	20	68	552	112	123	202
Kinondo	24.3	1300	317	18	76	677	104	112	253
Jibana	23.5	1195	266	15	66	561	100	264	274

Shimba hills	21.9	1103	216	23	56	467	118	118	218
Shimoni	24.4	1343	332	20	78	707	114	130	230
Arabuko	23.9	955	202	14	61	442	81	193	198
Mt. Nyiro	16.7	633	141	16	66	284	75	236	81
Taita hills	16.5	1200	249	14	81	524	54	295	54
Chyulu	16.6	973	254	4	95	500	19	252	19
Kasigau	20.2	802	137	16	63	318	65	191	65
Karura	16.7	946	209	16	74	467	63	362	80
Ngong forest	15.6	967	216	14	78	490	59	353	72
KF region	27.8	294	61	1	78	136	18	68	25
Marsabit	20.6	689	204	5	98	337	25	288	25
Kiang'ombe	19.2	1010	267	5	103	460	22	402	22
Aberderes	10.3	1250	166	41	37	438	165	340	289
Mt. Kenya	13.0	1236	227	39	60	503	162	391	162
Mt Elgon	13.3	1538	216	36	44	536	150	357	536
Ng'utwa	18.8	991	265	4	95	483	20	357	24
Bura	25.5	476	92	14	54	186	64	82	64
Kakamega forest	18.9	1883	254	64	37	678	253	312	550
Nandi North	16.5	1611	221	53	41	558	190	405	541
Nandi South	17.2	1731	238	66	33	590	249	483	483
Cheragany	14.3	1153	167	29	44	405	130	292	359
Mutha	21.4	716	236	2	116	425	9	228	9
Endau	22.3	817	296	2	122	505	7	251	7
Nuu	20.8	871	310	2	123	517	8	292	8
Mutito	20.2	941	321	2	118	536	11	332	11

Appendix 3. List of species of woody plants encountered in the study's non-spiny and spiny vegetation types alongside their respective percentage frequency of occurrence (%). n = number of plots sampled

Taxon	Vegetation formation	
	Non-spiny, broad leaved (n =25)	Spiny, narrow leaved (n = 32)
	%	%
Acanthaceae		
<i>Barleria eranthemoides</i> R. Br. ex C.B. Clarke	—	12.50
<i>Dyschoriste thunbergiiflora</i> (S. Moore) Lindau	8.00	—
Amaranthaceae		
<i>Achyranthes aspera</i> L.	—	3.13
<i>Aerva lanata</i> (L.) Juss. ex Schult.	—	6.25
<i>Pupalia lappacea</i> (L.) Juss.	—	6.25
Anacardiaceae		
<i>Lannea rivae</i> (Chiov.) Sacleux	36.00	15.63
<i>Ozoroa insignis</i> Delile	8.00	—
<i>Searsia natalensis</i> (Bernh. ex C. Krauss) F. A. Barkley	24.00	6.25
<i>S. rehmanniana</i> (Engl.) Moffett	—	9.38
Annonaceae		
<i>Uvaria scheffleri</i> Diels	12.00	—
Apocynaceae		
<i>Carissa spinarum</i> L.	4.00	—
<i>Cynanchum viminalis</i> (L.) L.	—	6.25
Asparagaceae		
<i>Asparagus racemosus</i> Willd.	—	12.50
Asteraceae		
<i>Aspilia mossambicensis</i> (Oliv.) Wild	12.00	31.25
<i>Kleinia squarrosa</i> Cufod.	—	12.50
<i>Vernonia fischeri</i> O. Hoffm.	—	3.13
Balanitaceae		
<i>Balanites aegyptiacus</i> (L.) Delile	4.00	25.00
Bignoniaceae		
<i>Kigelia africana</i> (Lam.) Benth.	—	3.13
Boraginaceae		
<i>Cordia monoica</i> Roxb.	—	25.00
Burseraceae		
<i>Commiphora africana</i> (A. Rich.) Engl.	20.00	9.38
<i>C. kua</i> (R. Br. ex Royle) Vollesen	8.00	—
<i>Commiphora</i> sp.	—	6.25
Caesalpiniaceae		
<i>Bauhinia tomentosa</i> L.	8.00	—

<i>Senna singueana</i> (Delile) Lock	20.00	9.38
Capaparaceae		
<i>Capparis tomentosa</i> Lam.	—	3.13
Celastraceae		
<i>Gymnosporia putterlickioides</i> Loes.	32.00	21.88
<i>G. senegalensis</i> (Lam.) Loes.	4.00	—
<i>Mystroxydon aethiopicum</i> (Thunb.) Loes.	4.00	—
Combretaceae		
<i>Combretum aculeatum</i> Vent.	4.00	28.13
<i>C. apiculatum</i> Sond.	40.00	—
<i>C. collinum</i> Fresen.	44.00	3.13
<i>C. pisoniiflorum</i> (Klotzsch) Engl.	36.00	—
<i>C. zeyheri</i> Sond.	68.00	—
<i>Terminalia brownii</i> Fresen.	72.00	34.38
<i>T. spinosa</i> Engl.	4.00	9.38
Cucurbitaceae		
<i>Kedrostis foetidissima</i> (Jacq.) Cogn.	—	6.25
Dracaenaceae		
<i>Sansevieria</i> sp.	—	6.25
Ebenaceae		
<i>Euclea divinorum</i> Hiern	4.00	—
Euphorbiaceae		
<i>Acalypha fruticosa</i> Forssk.	4.00	15.63
<i>Bridelia taitensis</i> Vatke & Pax	4.00	6.25
<i>Croton dichogamus</i> Pax	4.00	3.13
<i>Euphorbia candelabrum</i> Trémaux ex Kotschy	—	6.25
<i>Flueggea virosa</i> (Roxb. ex Willd.) Royle	16.00	25.00
Fabaceae (Faboideae)		
<i>Abrus precatorius</i> L.	—	9.38
<i>Albizia amara</i> (Roxb.) Boivin	—	3.13
<i>A. anthelmintica</i>	—	6.25
<i>Dalbergia melanoxylon</i> Guill. & Perr.	4.00	—
<i>Erythrina abyssinica</i> Lam. ex DC.	4.00	—
<i>Indigofera gracilis</i> Spreng.	12.00	18.75
<i>I. lupatana</i> Baker f.	4.00	—
<i>Ormocarpum kirkii</i> S. Moore	20.00	3.13
<i>Philenoptera eriocalyx</i> (Harms) Schrire	12.00	12.50
<i>Vigna frutescens</i> A. Rich.	4.00	—
Lamiaceae		
<i>Endostemon camporum</i> (Gürke) M. Ashby	4.00	—
<i>Hoslundia opposita</i> Vahl	8.00	15.63
<i>Ocimum gratissimum</i> L.	4.00	15.63
<i>Platostoma hildebrandtii</i> (Vatke) A. J. Paton	8.00	—
<i>Plectranthus pseudomarrubiioides</i> R. H. Willemse	4.00	3.13
<i>Rotheca myricoides</i> (Hochst.) Steane & Mabb.	8.00	—

Loganiaceae		
<i>Ochna thomasiana</i> Engl. & Gilg	4.00	—
Malvaceae		
<i>Hibiscus calyphyllus</i> Cav.	4.00	6.25
<i>H. macranthus</i> Hochst. ex A. Rich.	—	6.25
<i>H. meyeri</i> Harv.	—	—
<i>H. praeteritus</i> R. A. Dyer	16.00	—
<i>Pavonia arenaria</i> (Murr.) Roth	4.00	3.13
Mimosaceae		
<i>Acacia ataxacantha</i> DC.	4.00	25.00
<i>A. brevispica</i> Harms	8.00	34.38
<i>A. elatior</i> Brenan	—	3.13
<i>A. hockii</i> De Wild.	8.00	3.13
<i>A. mellifera</i> (Vahl) Benth.	4.00	81.25
<i>A. nilotica</i> (L.) Willd. ex Delile	4.00	43.75
<i>A. senegal</i> (L.) Willd.	—	37.50
<i>A. seyal</i> auct.	—	3.13
<i>A. tortilis</i> (Forssk.) Hayne	8.00	87.50
<i>Dichrostachys cinerea</i> (L.) Wight & Arn.	24.00	6.25
<i>Entada leptostachya</i> Harms	—	3.13
Oleaceae		
<i>Jasminum fluminense</i> Vell.	8.00	—
<i>Ximenia americana</i> auct.	4.00	6.25
Opiliaceae		
<i>Opilia amentacea</i> Roxb.	—	6.25
Pittosporaceae		
<i>Pittosporum viridiflorum</i> Sims	4.00	—
Rhamnaceae		
<i>Ziziphus mucronata</i> Willd.	8.00	9.38
Rhamnaceae		
<i>Rhamnus staddo</i> A. Rich.	4.00	—
Rubiaceae		
<i>Catunaregam nilotica</i> (Stapf) Tirveng.	4.00	—
<i>Conostomium quadrangulare</i> (Rendle) Cufod.	4.00	—
<i>Hymenodictyon parvifolium</i> Oliv.	8.00	—
<i>Pavetta subumbellata</i> Bridson	12.00	—
<i>Pentas parvifolia</i> Hiern	20.00	—
<i>Pyrostria phyllanthoidea</i> (Baill.) Bridson	—	6.25
<i>Rothmannia fischeri</i> (K. Schum.) Bullock	4.00	—
<i>Vangueria madagascariensis</i> J. F. Gmel.	—	3.13
Rutaceae		
<i>Zanthoxylum gillettii</i> (De Wild.) P. G. Waterman		3.13
Salicaceae		
<i>Dovyalis abyssinica</i> (A. Rich.) Warb.	4.00	—
Sapindaceae		

<i>Allophylus rubifolius</i> (Hochst. ex A. Rich.) Engl.	4.00	3.13
Simaroubaceae		
<i>Harrisonia abyssinica</i> Oliv.	4.00	—
Solanaceae		
<i>Lycium europaeum</i> L.	—	3.13
<i>Solanum lichtensteinii</i> Willd.	16.00	34.38
<i>S. tettense</i> Klotzsch	—	15.63
Sterculiaceae		
<i>Dombeya kirkii</i> Mast.	4.00	—
<i>Hermannia uhligii</i> Engl.	16.00	34.38
<i>Melhanian velutina</i> Forssk.	4.00	—
<i>Sterculia stenocarpa</i> H. Winkl.	—	3.13
<i>Waltheria indica</i> L.	4.00	—
Strychnaceae		
<i>Strychnos henningsii</i> Gilg	4.00	—
<i>S. spinosa</i> Lam.	4.00	—
Thymelaeaceae		
<i>Gnidia latifolia</i> (Oliv.) Gilg	32.00	25.00
Tiliaceae		
<i>Grewia bicolor</i> Juss.	28.00	34.38
<i>G. similis</i> K. Schum.	8.00	37.50
<i>G. tembensis</i> Fresen.	4.00	37.50
<i>G. villosa</i> Willd.	—	46.88
Verbenaceae		
<i>Lippia javanica</i> (Burm. f.) Spreng.	8.00	—
<i>Lantana camara</i> L.	48.00	12.50
<i>Premna oligotricha</i> Baker	32.00	34.38
<i>Vitex payos</i> (Lour.) Merr.	4.00	—
Vitaceae		
<i>Cissus phymatocarpa</i> Masinde & L. E. Newton	4.00	18.75
<i>C. rotundifolia</i> (Forssk.) Vahl	4.00	21.88

Appendix 4. List of woody plants for the Acacia and Combretum plant communities' common species alongside their respective four leaf traits (specific leaf area [SLA], nitrogen content [N], carbon content [C] and condensed tannins [CTs]) used for investigations of the trade-off between structural and chemical defenses against herbivory phenomenon in African savanna woody plants

Species	Study site	SLA (cm ² g ⁻¹)	N %	C %	CTs%
<i>A.mellifera</i>	Acacia WL1	129.101	3.354	42.779	4.704
<i>A.mellifera</i>	Acacia WL1	112.774	3.129	45.441	5.229
<i>A.mellifera</i>	Acacia WL1	131.122	3.222	45.378	4.565
<i>A.mellifera</i>	Acacia WL4	128.514	3.414	43.586	3.502
<i>A.mellifera</i>	Acacia WL4	135.644	2.967	43.163	4.275
<i>A.mellifera</i>	Acacia WL4	124.917	3.545	45.554	5.452
<i>A.mellifera</i>	Acacia WL5	134.680	3.431	45.158	3.242
<i>A.mellifera</i>	Acacia WL5	127.862	3.589	43.74	4.062
<i>A.mellifera</i>	Acacia WL5	150.819	3.05	43.316	5.492
<i>A.mellifera</i>	Acacia WL7	133.033	3.438	45.585	4.901
<i>A.mellifera</i>	Acacia WL7	149.052	3.060	45.576	3.645
<i>A.mellifera</i>	Acacia WL7	137.524	3.505	43.816	3.304
<i>A.nilotica</i>	Acacia WL1	146.948	2.622	48.708	0.936
<i>A.nilotica</i>	Acacia WL1	129.246	2.164	48.336	0.810
<i>A.nilotica</i>	Acacia WL1	138.843	2.407	48.051	0.559
<i>A.nilotica</i>	Acacia WL4	137.163	2.843	47.282	0.832
<i>A.nilotica</i>	Acacia WL4	146.948	2.474	48.523	0.829
<i>A.nilotica</i>	Acacia WL4	129.173	2.134	48.312	0.666
<i>A.nilotica</i>	Acacia WL5	147.997	2.408	47.958	0.773
<i>A.nilotica</i>	Acacia WL5	102.588	2.854	47.734	0.594
<i>A.nilotica</i>	Acacia WL5	117.117	2.235	48.281	0.741
<i>A.senegal</i>	Acacia WL1	176.535	3.925	43.898	0.173
<i>A.senegal</i>	Acacia WL1	123.972	3.910	42.126	0.250
<i>A.senegal</i>	Acacia WL1	108.986	3.529	42.778	0.244
<i>A.senegal</i>	Acacia WL4	110.449	3.109	43.367	0.660
<i>A.senegal</i>	Acacia WL4	157.772	3.656	43.328	0.142
<i>A.senegal</i>	Acacia WL4	161.418	3.966	41.648	0.115
<i>A.senegal</i>	Acacia WL5	117.000	4.044	44.056	0.323
<i>A.senegal</i>	Acacia WL5	111.057	3.450	42.622	0.166
<i>A.senegal</i>	Acacia WL5	143.735	3.933	42.092	0.497
<i>A.tortilis</i>	Acacia WL1	104.671	2.643	45.876	6.089
<i>A.tortilis</i>	Acacia WL1	156.167	2.774	44.743	5.607
<i>A.tortilis</i>	Acacia WL1	125.268	2.285	43.065	6.021
<i>A.tortilis</i>	Acacia WL4	117.543	2.597	42.551	8.708
<i>A.tortilis</i>	Acacia WL4	166.242	2.438	43.957	7.337
<i>A.tortilis</i>	Acacia WL4	168.665	2.278	42.571	9.057
<i>A.tortilis</i>	Acacia WL5	107.221	2.930	43.71	9.362
<i>A.tortilis</i>	Acacia WL5	122.391	2.321	44.424	5.395

<i>A.tortilis</i>	Acacia WL5	149.453	2.777	44.242	9.149
<i>A.tortilis</i>	Acacia WL7	139.842	2.184	42.239	5.771
<i>A.tortilis</i>	Acacia WL7	103.346	2.803	43.256	9.903
<i>A.tortilis</i>	Acacia WL7	122.811	3.602	43.260	9.879
<i>C.apiculatum</i>	Combretum WL2	85.800	2.587	45.308	1.045
<i>C.apiculatum</i>	Combretum WL2	72.348	2.488	44.930	4.007
<i>C.apiculatum</i>	Combretum WL2	76.483	1.968	44.154	2.343
<i>C.apiculatum</i>	Combretum WL3	81.904	2.198	45.903	2.738
<i>C.apiculatum</i>	Combretum WL3	92.472	2.451	44.742	2.176
<i>C.apiculatum</i>	Combretum WL3	95.055	2.645	44.921	3.204
<i>C.apiculatum</i>	Combretum WL6	85.916	2.635	46.560	1.666
<i>C.apiculatum</i>	Combretum WL6	92.505	2.523	44.595	2.807
<i>C.apiculatum</i>	Combretum WL6	95.604	2.219	44.962	0.558
<i>C.collinum</i>	Combretum WL2	83.925	2.030	40.433	4.555
<i>C.collinum</i>	Combretum WL2	79.501	1.812	40.684	5.868
<i>C.collinum</i>	Combretum WL2	97.763	2.324	43.151	4.209
<i>C.collinum</i>	Combretum WL3	98.773	1.731	40.845	5.283
<i>C.collinum</i>	Combretum WL3	88.333	1.873	40.814	2.806
<i>C.collinum</i>	Combretum WL3	87.653	2.017	40.394	3.943
<i>C.collinum</i>	Combretum WL6	89.178	2.354	44.016	5.723
<i>C.collinum</i>	Combretum WL6	85.965	1.619	41.559	6.101
<i>C.collinum</i>	Combretum WL6	84.545	1.717	42.16	5.037
<i>C.collinum</i>	Combretum WL8	90.595	1.982	40.472	4.729
<i>C.collinum</i>	Combretum WL8	88.439	2.352	41.594	4.572
<i>C.collinum</i>	Combretum WL8	86.643	1.689	41.749	6.691
<i>C.zeyheri</i>	Combretum WL2	60.105	1.768	44.667	0.718
<i>C.zeyheri</i>	Combretum WL2	75.142	2.814	44.817	3.074
<i>C.zeyheri</i>	Combretum WL2	59.470	1.946	45.195	1.101
<i>C.zeyheri</i>	Combretum WL3	71.524	2.725	46.921	2.083
<i>C.zeyheri</i>	Combretum WL3	62.587	1.905	45.413	1.055
<i>C.zeyheri</i>	Combretum WL3	69.175	2.667	46.573	2.315
<i>C.zeyheri</i>	Combretum WL6	74.524	2.627	47.271	1.251
<i>C.zeyheri</i>	Combretum WL6	67.587	1.971	45.317	1.937
<i>C.zeyheri</i>	Combretum WL6	70.175	2.767	45.476	2.407
<i>T.brownii</i>	Combretum WL2	72.858	2.386	43.451	2.349
<i>T.brownii</i>	Combretum WL2	74.981	2.494	40.52	1.786
<i>T.brownii</i>	Combretum WL2	91.512	1.943	42.458	2.413
<i>T.brownii</i>	Combretum WL3	85.443	2.288	41.553	3.367
<i>T.brownii</i>	Combretum WL3	81.549	2.249	40.072	1.308
<i>T.brownii</i>	Combretum WL3	73.606	2.500	43.554	2.669
<i>T.brownii</i>	Combretum WL6	81.367	1.942	42.458	3.290
<i>T.brownii</i>	Combretum WL6	93.189	2.136	40.755	1.413
<i>T.brownii</i>	Combretum WL6	96.455	2.530	43.666	2.775

Appendix 5. A list of species used in the phylogenetic study, showing distribution of plant species in the three phytochoria (SM=Somali-Masai, A= Afromontane archipelago and AI= Zanzibar-Inhambane). Given also is Crown age (CA) of taxon inferred with evolutionary distinctiveness for each phytogeographical region, recovered sequences for *rbcl* and *matk* gene markers, and taxa sequenced by this study (**bolded**)

Taxon	Voucher	rbcl	Matk	CA	S-M	A	Z-I
<i>Abrus precatorius</i> L.	Abbott24803	1	1		1	1	1
<i>Abutilon angulatum</i> (Guill. & Perr.) Mast.	OM1934 (JRAU)	1	1		1	1	1
<i>Abutilon hirtum</i> (Lam.) Sweet	Abhir14314	1	1		1	1	0
<i>Abutilon mauritianum</i> (Jacq.) Medik.	UHURU95114	1	1		1	1	1
<i>Abutilon sonneratianum</i> (Cav.) Sweet	LTM034 (JRAU)	1	1		1	0	0
<i>Acacia amythethophylla</i> Steud. ex A. Rich.	RL1314	1	1	6.44	1	0	0
<i>Acacia ataxacantha</i> DC.	RL1326 (JRAU)	1	1		1	0	1
<i>Acacia brevispica</i> Harms	JKM448 (EAH)	1	1		1	0	1
<i>Acacia brevispica</i> subsp. <i>dregeana</i> (Benth.) Brenan	RL1333 (JRAU)	1	0		1	0	1
<i>Acacia caffra</i> (Thunb.) Willd.	RL1335 (JRAU)	1	1		0	0	0
<i>Acacia chariessa</i> Milne-Redh.	MvdB2158 (JRAU)	1	1		0	0	0
<i>Acacia eriocarpa</i> Brenan	MvdB2157 (JRAU)	1	1		0	0	0
<i>Acacia erubescens</i> Welw. ex Oliv.	OM0780 (JRAU)	1	1		0	0	0
<i>Acacia exuvialis</i> I. Verd.	Vaexu260	1	1		0	0	0
<i>Acacia fleckii</i> Schinz	RL1328	1	1		0	0	0
<i>Acacia goetzei</i> Harms	RL1322 (JRAU)	0	1		1	0	1
<i>Acacia goetzei</i> subsp. <i>microphylla</i> Brenan	RL1320 (JRAU)	1	1		1	0	1
<i>Acacia hamulosa</i> Benth.	JKM951 (EAH)	1	1	0.45	1	0	0
<i>Acacia hebeclada</i> DC subsp. <i>tristis</i>	Vahebt1049	1	1		0	0	0
<i>Acacia hereroensis</i> Engl.	RL1332 (JRAU)	1	1		0	0	0
<i>Acacia kraussiana</i> Meisn. ex Benth.	RL1287 (JRAU)	1	1		0	0	0

<i>Acacia mellifera</i> (Vahl) Benth.	UHURU136415 (EAH)	0	1		1	0	1
<i>Acacia mellifera</i> subsp. <i>detinens</i> (Burch.) Brenandetinens	RL1329 (JRAU)	1	0		1	0	1
<i>Acacia montis-usti</i> Merxm. & A. Schreib.	OM1065 (JRAU)	1	1		0	0	0
<i>Acacia nigrescens</i> Oliv.	RBN314 (KNP)	1	1		0	0	1
<i>Acacia pentagona</i> (Schumach. & Thonn.) Hook. f.	JKM654 (EAH)	1	0		1	0	1
<i>Acacia polyacantha</i> subsp. <i>campylacantha</i> (Hochst. ex A. Rich.) Brenan campylacantha	RL1323 (JRAU)	0	1		1	0	1
<i>Acacia polyacantha</i> Willd.	JKM415 (EAH)	1	1		1	0	1
<i>Acacia robusta</i> subsp. <i>clavigera</i> (E. Mey.) Brenan	JKM&AMM354 (EAH)	1	1		1	0	1
<i>Acacia robynsiana</i> Merxm. & A. Schreib.	OM1066 (JRAU)	1	1		0	0	0
<i>Acacia schweinfurthii</i> Brenan & Exell	OM1539 (JRAU)	1	1		1	0	1
<i>Acacia senegal</i> var. <i>leiorhachis</i> Brenan	OM0866 (JRAU)	1	0		0	0	0
<i>Acacia senegal</i> var. <i>rostrata</i> Brenan	OM0255 (JRAU)	1	1		0	0	0
<i>Acacia theronii</i> P. P. Sw.	RL1313	1	1		0	0	0
<i>Acacia welwitschii</i> subsp. <i>delagoensis</i> (Harms) J.H. Ross & Brenandelagoensis	OM2548 (JRAU)	1	1		0	0	1
<i>Acalypha chirindica</i> S. Moore	OM2341 (JRAU)	1	1		0	0	0
<i>Acalypha glabrata</i> ssp. <i>pilosa</i> Pax	OM1979 (JRAU)	1	1	0.49	0	0	1
<i>Acalypha glabrata</i> Thunb. ssp. <i>glabrata</i>	OM0441 (JRAU)	1	1	0.49	0	0	1
<i>Acokanthera oblongifolia</i> (Hochst.) Codd	OM2240 (JRAU)	1	1		0	0	1
<i>Acokanthera oppositifolia</i> (Lam.) Codd	OM3240 (JRAU)	1	1		0	1	1
<i>Acokanthera rotundata</i> (Codd) Kupicha	OM2009 (JRAU)	1	1	1.26	0	0	1
<i>Acridocarpus chloropterus</i> Oliv.	Burrows11403	1	1	0.63	0	0	1
<i>Acridocarpus natalitius</i> A. Juss.	OM2034 (JRAU)	1	1	1.31	0	0	1
<i>Acridocarpus zanzibaricus</i> A. Juss.	Davis99	1	1		1	0	1
<i>Actiniopteris semiflabellata</i> Pic. Serm.	AMM7477 (EAH)	1	0		1	0	0

<i>Adansonia digitata</i> L.	OM1306 (JRAU)	1	1		1	0	0
<i>Adenia fruticosa</i> Burt Davy subsp. <i>Fruticosa</i>	OM1950 (JRAU)	1	1		0	0	0
<i>Adenia gummifera</i> (Harv.) Harms	OM2473 (JRAU)	1	1		1	1	0
<i>Adenia spinosa</i> Burt Davy	OM1618 (JRAU)	1	1		0	0	0
<i>Adenium multiflorum</i> Klotzsch	OM1161 (JRAU)	1	1		0	0	0
<i>Adenium obesum</i> (Forssk.) Roem. & Schult.	Livschultz03	0	1		1	0	1
<i>Adenium swasicum</i>	OM1172 (JRAU)	1	1		0	0	0
<i>Adenopodia spicata</i> (E. Mey.) C. Presl	MWC28710 (K)	1	1		0	0	0
<i>Aeschynomene pfundii</i> Taub.	Lavin s.n.	0	1		0	0	0
<i>Afrocanthium lactescens</i> (Hiern) Lantz	Luke&Luke 9045 (UPS)	0	1	0.5	1	0	0
<i>Afrocanthium mundianum</i> (Cham. & Schltdl.) Lantz	Abbott9224 (BNRH)	1	1	1.01	0	0	1
<i>Afrocanthium racemulosum</i> (S. Moore) Lantz	OM2592 (JRAU)	1	1		0	0	0
<i>Afzelia bella</i> Harms	PM4985	0	1		0	0	0
<i>Afzelia quanzensis</i> Welw.	OM2113 (JRAU)	1	1	0.49	0	0	1
<i>Aganope stuhlmannii</i> (Taub.) Adema	Xestu2398	1	1		0	0	0
<i>Agelanthus zizyphifolius</i> (Engl.) Polhill & Wiens	Agziz621	1	0		0	0	0
<i>Alafia zambesiaca</i> Kupicha	Burrows12811	0	1		0	0	0
<i>Alangium chinense</i> (Lour.) Harms	Arnold Arb. #15866	1	1		0	0	0
<i>Alberta magna</i> E. Mey.	Abbott9117 (BNRH)	1	1		0	0	1
<i>Albizia adianthifolia</i> (Schumach.) W. Wight	OM2610 (JRAU)	1	1	1.47	0	0	1
<i>Albizia amara</i> (Roxb.) Boivin	OM2136 (JRAU)	1	1		1	1	0
<i>Albizia anthelmintica</i> Brongn.	JKM444 (EAH)	0	1		1	0	1
<i>Albizia brevifolia</i> Schinz	OM0826 (JRAU)	1	1		0	0	0
<i>Albizia forbesii</i> Benth.	OM0331 (JRAU)	1	1	1.47	0	0	1
<i>Albizia glaberrima</i> (Schumach. & Thonn.) Benth.	OM2605 (JRAU)	1	1		0	0	0
<i>Albizia grandibracteata</i> Taub.	Koenen159	0	1		1	1	0

<i>Albizia gummifera</i> (J.F.Gmel.) C.A.Sm.	OM3880	1	1		0	1	1
<i>Albizia harveyi</i> E.Fourn.	OM0773 (JRAU)	1	1		0	0	0
<i>Albizia petersiana</i> (Bolle) Oliv. subsp. <i>Evansii</i>	OM1378 (JRAU)	1	1		0	0	1
<i>Albizia schimperiana</i> Oliv.	OM3888	1	1		1	1	0
<i>Albizia suluensis</i> Gerstner	OM2227 (JRAU)	1	1	2.45	0	0	1
<i>Albizia tanganyicensis</i> Baker f.	OM1972 (JRAU)	1	1		0	0	0
<i>Albizia versicolor</i> Welw. ex Oliv.	OM2535 (JRAU)	1	1	0.49	0	0	1
<i>Albizia zimmermannii</i> Harms	OM2363 (JRAU)	1	1		0	0	0
<i>Alchornea hirtella</i> Benth.	MWC36209 (K)	1	1		0	0	0
<i>Alchornea laxiflora</i> (Benth.) Pax & K. Hoffm.	OM2330 (JRAU)	1	1		0	0	1
<i>Allocassine laurifolia</i> (Harv.) N. Robson	Abbott9147 (BNRH)	1	1	0.51	0	0	1
<i>Allophylus africanus</i> P. Beauv.	Abbott9141 (BNRH)	1	1	1.68	1	0	0
<i>Allophylus decipiens</i> (Sond.) Radlk.	OM1846 (JRAU)	1	1		0	0	1
<i>Allophylus dregeanus</i> (Sond.) De Winter	Abbott9136 (BNRH)	1	1		0	0	0
<i>Allophylus megaphyllus</i> Hutch. & Dalziel	PM4804	1	1		0	0	0
<i>Allophylus natalensis</i> (Sond.) De Winter	OM2224 (JRAU)	0	1	0.51	0	0	1
<i>Allophylus rubifolius</i> (Hochst. ex A. Rich.) Engl.	AMM7485 (EAH)	1	0		1	1	1
<i>Aloe kulalensis</i> L. E. Newton & Beentje	Bjoraewton130	0	1	0.57	1	0	0
<i>Aloe africana</i> Mill.	OM3190 (JRAU)	1	1		0	0	0
<i>Aloe angelica</i> Pole-Evans	OM2960 (JRAU)	1	1		0	0	0
<i>Aloe arborescens</i> Mill.	Abbott9167 (BNRH)	1	1	0.5	0	0	1
<i>Aloe castanea</i> Schönland	OM2961 (JRAU)	0	1		0	0	0
<i>Aloe cheranganiensis</i> S. Carter & Brandham	JKM436 (EAH)	0	1	1.28	0	1	0
<i>Aloe comosa</i> Marloth & A. Berger	BHD385 (JRAU)	1	1		0	0	0
<i>Aloe excelsa</i> A. Berger	OM1621 (JRAU)	1	1		0	0	0
<i>Aloe ferox</i> Mill.	Abbott9235 (BNRH)	1	1		0	0	0
<i>Aloe marlothii</i> A. Berger subsp. <i>Marlothii</i>	OM1490 (JRAU)	1	1	0.52	0	0	1
<i>Aloe nyeriensis</i> Christian	UHURU83414	0	1		0	0	0

<i>Aloe pluridens</i> Haw.	Abbott9217 (BNRH)	1	1		0	0	0
<i>Aloe speciosa</i> Baker	BHD394 (JRAU)	1	1		0	0	0
<i>Aloe spicata</i> L. f.	OM1522 (JRAU)	1	1	4.43	0	0	1
<i>Aloe thraskii</i> Baker	BHD411 (JRAU)	1	1		0	0	0
<i>Aloe tongaensis</i> Van Jaarsv.	OM3941	1	1	11.12	0	0	1
<i>Aloe volkensii</i> Engl.	BjoraHemp524	0	1		0	0	1
<i>Aloidendron barberae</i> (Dyer) Klopper & Gideon F. Sm.	Abbott9219 (BNRH)	1	1		0	0	0
<i>Aloidendron dichotomum</i> (Masson) Klopper & Gideon F. Sm.	OM2953 (JRAU)	1	1		0	0	0
<i>Aloidendron pillansii</i> (L. Guthrie) Klopper & Gideon F. Sm.	OM1490 (JRAU)	1	1		0	0	0
<i>Aloidendron ramosissimum</i> (Pillans) Klopper & Gideon F. Sm.	Alram2954	1	1		0	0	0
<i>Alstonia boonei</i> De Wild.	PM5095	1	1		0	1	0
<i>Amblygonocarpus andongensis</i> (Welw. ex Oliv.) Exell & Torre	OM2609 (JRAU)	1	1		1	0	1
<i>Anastrabe integerrima</i> E. Mey. ex Benth.	OM2197 (JRAU)	1	1		0	0	1
<i>Ancylobothrys capensis</i> (Oliv.) Pichon	Ancap1615	1	1		0	0	1
<i>Ancylobothrys petersiana</i> (Klotzsch) Pierre	OM3604	1	0	35.4	0	0	1
<i>Androstachys johnsonii</i> Prain	OM3354 (JRAU)	1	0	0.47	0	0	1
<i>Anginon difforme</i> (L.) B.L. Burtt	OM2292 (JRAU)	1	1		0	0	0
<i>Angylocalyx braunii</i> Harms	JKM855 (EAH)	1	1		0	0	0
<i>Angylocalyx oligophyllus</i> (Baker) Baker f.	PM4887	1	1		0	0	0
<i>Angylocalyx pynaertii</i> De Wild.	PM5379	1	1		0	0	0
<i>Anisophyllea boehmii</i> Engl.	OM4154	1	0		0	0	0
<i>Anisophyllea boehmii</i> Engl.	Anpom13487	1	1		0	1	1
<i>Anisophyllea polyneura</i> Floret	SIMAB 042502	1	1		0	0	0
<i>Anisophyllea polyneura</i> Floret	AnsorGeban	1	1		0	0	0
<i>Anisophyllea purpurascens</i> Hutch. & Dalziel	AnpurGeban	1	1		0	0	0

<i>Anisotes formosissimus</i> (Klotzsch) Milne-Redh.	OM0868 (JRAU)	1	1	2.21	0	0	1
<i>Anisotes longitrobus</i> (C.B. Clarke) Vollesen	Melon15	1	1		0	0	0
<i>Anisotes tanensis</i> Baden	JKM938 (EAH)	1	1	1.05	1	0	0
<i>Annickia affinis</i> (Exell) Versteegh & Sosef	Philippe 103	1	1		0	0	0
<i>Annona senegalensis</i> Pers. ssp. <i>senegalensis</i>	OM2732 (JRAU)	1	1		1	1	1
<i>Annona stenophylla</i> Engl. & Diels	Burrows13362	1	1		0	0	0
<i>Anthocleista grandiflora</i> Gilg	OM2671 (JRAU)	1	1	37.2	0	1	0
<i>Anthonothea fragrans</i> (Baker f.) Exell & Hillc.	SIMAB 041811	1	0		0	0	0
<i>Anthonothea lamprophylla</i> (Harms) J. Léonard	PM5206	1	0		0	0	0
<i>Anthonothea macrophylla</i> P. Beauv.	PM5134	1	0		0	0	0
<i>Antiaris toxicaria</i> ssp. <i>welwitschii</i> var. <i>usambarensis</i>	OM3977	1	1	16.07	0	0	1
<i>Antidesma venosum</i> Tul.	AnvenGeban	1	1		1	0	1
<i>Antidesma vogelianum</i> Müll. Arg.	AnvogGeban	1	0		0	0	1
<i>Aorantho cladantha</i> (K. Schum.) Somers	PM5452	1	1		0	0	0
				108.5			
<i>Aphloia theiformis</i> (Vahl) Benn.	OM3397 (JRAU)	1	1	7	0	0	1
<i>Apodytes dimidiata</i> E. Mey. ex Arn.	OM2485 (JRAU)	1	1		0	1	1
<i>Argomuelleria macrophylla</i> Pax	Gereau6285 (MO)	1	1	1.01	0	1	0
<i>Aristogeitonia monophylla</i> Airy Shaw	ArmonGeban	1	1	44.51	0	0	1
<i>Aristolochia albida</i> Duch.	AralbGeban	1	1		0	0	1
<i>Artabotrys brachypetalus</i> Benth.	OM2697 (JRAU)	1	1	0.54	0	0	1
<i>Artabotrys modestus</i> ssp. <i>macranthus</i> Verdc.	JKM845 (EAH)	1	0	0.54	0	0	1
<i>Artemisia afra</i> Jacq. ex Willd.	BS0167	1	1	0.51	0	1	0
<i>Aspalathus linearis</i> (Burm. f.) R. Dahlgren	AMM4783 (BOL)	1	1		0	0	0
<i>Aspalathus pendula</i> R. Dahlgren	AMM4066 (BOL)	1	1		0	0	0
<i>Asparagus racemosus</i> Willd.	JKM446 (EAH)	1	1		1	0	1
<i>Aspilia mossambicensis</i> (Oliv.) Wild	AMM7508 (EAH)	0	1	0.51	1	0	0
<i>Asteranthe asterias</i> (S. Moore) Engl. & Diels	JKM862 (EAH)	1	0	0.53	0	0	1

<i>Atalaya alata</i> (Sim) H. M. L. Forbes	Chase1126 (K)	1	1	0.67	0	0	1
<i>Atalaya natalensis</i> R. A. Dyer	Abbott9212 (BNRH)	1	1		0	0	1
<i>Aulacocalyx caudata</i> (Hiern) Keay	PM5000	1	1		0	0	0
<i>Aulacocalyx jasminiflora</i> Hook. f. subsp. <i>Jasminiflora</i>	PM4826	1	1		0	0	0
<i>Aulacocalyx talbotii</i> (Wernham) Keay	PM4838	1	1		0	0	0
<i>Avicennia marina</i> (Forssk.) Vierh.	OM2475 (JRAU)	1	1	28.4	0	0	1
<i>Azima tetracantha</i> Lam.	OM1315 (JRAU)	1	1		1	0	1
<i>Bachmannia woodii</i> (Oliv.) Gilg	MWC35838 (K)	1	1	0.46	0	0	1
<i>Baikiaea plurijuga</i> Harms	M660 (JRAU)	1	1		0	0	0
<i>Baissea myrtifolia</i> (Benth.) Pichon	Burrows12566	1	1	0.48	0	0	1
<i>Balanites aegyptiaca</i> (L.) Delile	JKM&AMM452 (EAH)	0	1	0.5	1	0	0
<i>Balanites glabra</i> Mildbr. & Schltr.	PMMBALAG(EAH)	1	1	0.45	1	0	0
<i>Balanites maughamii</i> Sprague	OM0994 (JRAU)	1	0	0.43	0	0	1
<i>Balanites pedicellaris</i> Mildbr. & Schltr. subsp. <i>Pedicellaris</i>	OM0901 (JRAU)	1	1		1	0	1
<i>Balanites rotundifolia</i> (Tiegh.) Blatt.	UHURU35714	1	1	0.43	1	0	0
<i>Baphia longepedicellata</i> subsp. <i>keniensis</i> (Brummitt) Soladoye	JKM659 (EAH)	1	0	0.48	0	1	0
<i>Baphia mambillensis</i> Soladoye	BalauGeban	0	1		0	0	0
<i>Baphia massaiensis</i> Taub.	RBN130 (KNP)	1	1		0	0	0
<i>Baphia racemosa</i> (Hochst.) Baker	OM2221 (JRAU)	0	1		0	0	1
<i>Barleria albostellata</i> C.B. Clarke	OM0899 (JRAU)	1	1		1	0	0
<i>Barleria ramulosa</i> C.B. Clarke	UHURUK1207	1	1		1	0	1
<i>Barleria rotundifolia</i> Oberm.	OM1327 (JRAU)	1	1		0	0	0
<i>Barleria volkensii</i> Lindau	PMM134815	1	1	1.63	1	0	0
<i>Barringtonia racemosa</i> (L.) Spreng.	OM1830 (JRAU)	1	1	2.31	0	0	1
<i>Barteria fistulosa</i> Mast.	PM4831	1	1		0	0	0
<i>Bauhinia galpinii</i> N.E. Br.	Forest347 (NBG)	1	0	2.4	0	0	1

<i>Bauhinia mendoncae</i> Torre & Hillc.	Burrows13457	1	1		0	0	0
<i>Bauhinia mombassae</i> Vatke	JKM873 (EAH)	1	1	0.42	0	0	1
<i>Bauhinia natalensis</i> Oliv. ex Hook.	CS07 (JRAU)	1	1		0	0	1
<i>Bauhinia petersiana</i> Bolle	Bapet2243	1	1		0	0	0
<i>Bauhinia petersiana</i> subsp. <i>macrantha</i> (Oliv.) Brummitt & J.H. Ross	Bamic13876	1	0		0	0	0
<i>Bauhinia tomentosa</i> L.	OM2391 (JRAU)	0	1		1	0	0
<i>Beilschmiedia acuta</i> Kosterm.	PM5321	1	1		0	0	0
<i>Beilschmiedia jacques-felixii</i> Robyns & R. Wilczek	PM4823	1	1		0	0	0
<i>Belonophora talbotii</i> (Wernham) Keay	PM4948	1	1		0	0	0
<i>Belonophora wernhamii</i> Hutch. & Dalziel	PM5053	1	1		0	0	0
<i>Berchemia discolor</i> (Klotzsch) Hemsl.	OM2437 (JRAU)	1	1		1	0	1
<i>Berchemia zeyheri</i> (Sond.) Grubov	OM1165 (JRAU)	1	1	0.51	0	0	1
<i>Bergbambos tessellata</i> (Nees) Stapleton	Thtes2308	1	1		0	0	0
<i>Berlinia auriculata</i> Benth.	PM4890	1	1		0	0	0
<i>Berlinia hollandii</i> Hutch. & Dalziel	PM5562	1	1		0	0	0
<i>Berlinia orientalis</i> Brenan	Burrows10892	1	1	0.48	0	0	1
<i>Bersama abyssinica</i> Fresen. subsp. <i>abyssinica</i>	JKM652 (EAH)	1	0		1	1	0
<i>Bersama lucens</i> (Hochst.) Szyszyl	OM1562 (JRAU)	1	1		0	0	1
<i>Bersama tysoniana</i> Oliv.	Betys1891	1	1		0	0	1
<i>Bertiera laxa</i> Benth.	PM5507	0	1		0	0	0
<i>Bertiera racemosa</i> (G. Don) K. Schum.	PM4936	1	1		0	0	0
<i>Berzelia lanuginosa</i> (L.) Brongn.	OM3091 (JRAU)	1	1		0	0	0
<i>Bivinia jalbertii</i> Tul.	OM2418 (JRAU)	1	1	2.52	0	0	1
<i>Blepharis turkanae</i> Vollesen	JKM&FB2017/2 (EAH)	0	1	1.25	1	0	0
<i>Blepharispermum zanguebaricum</i> Oliv. & Hiern	JKM604 (EAH)	1	1		1	0	1
<i>Blighia unijugata</i> Baker	OM1856 (JRAU)	1	1		1	1	0

<i>Bobgunnia madagascariensis</i> (Desv.) J. H. Kirkbr. & Wiersema	Swmad3566	1	1		0	0	0
<i>Boehmeria virgata</i> (G.Forst.) Guill. subsp. <i>macrophylla</i> (Hornem.) Friis & Wilmot-Dear	J411	0	1		0	0	0
<i>Bolusanthus speciosus</i> (Bolus) Harms	OM0240 (JRAU)	1	1		0	0	0
<i>Borassus aethiopum</i> Mart.	Boaet16	1	0		0	0	0
<i>Boscia albitrunca</i> (Burch.) Gilg & Gilg-Ben.	OM1274 (JRAU)	1	1		0	0	0
<i>Boscia angustifolia</i> A. Rich.	OM2069 (JRAU)	0	1	0.57	1	0	0
<i>Boscia foetida</i> Schinz	OM0296 (JRAU)	1	1		0	0	1
<i>Boscia foetida</i> subsp. <i>filipes</i> (Gilg) Lötter	Bofoef1916	1	1		0	0	0
<i>Boscia mossambicensis</i> Klotzsch	OM0250 (JRAU)	1	1	0.51	1	0	0
<i>Boscia salicifolia</i> Oliv.	OM2543 (JRAU)	1	1		1	0	0
<i>Bosqueiopsis carvalhoana</i> Engl.	Burrows10692	1	1	0.52	0	0	1
<i>Bottegoa insignis</i> Chiov.	Boins4824	1	0		1	1	0
<i>Bowkeria cymosa</i> MacOwan	OM2026 (JRAU)	1	1		0	0	1
<i>Bowkeria verticillata</i> (Eckl. & Zeyh.) Schinz	OM&MvdB72 (JRAU)	1	1	0.5	0	0	1
<i>Brabejum stellatifolium</i> L.	OM2257 (JRAU)	1	1		0	0	0
<i>Brachylaena discolor</i> DC.	BS0103 (JRAU)	1	1	0.54	0	0	1
<i>Brachylaena elliptica</i> (Thunb.) DC.	Koekemoer&Funk 1971 (PRE)	1	1	0.55	0	0	1
<i>Brachylaena huillensis</i> O. Hoffm.	OM0247 (JRAU)	1	1		0	1	1
<i>Brachylaena neriifolia</i> (L.) R. Br.	OM3093 (JRAU)	1	1		0	0	0
<i>Brachylaena rotundata</i> S. Moore	OM1938 (JRAU)	1	1		0	0	0
<i>Brachylaena transvaalensis</i> E. Phillips & Schweick.	OM0571 (JRAU)	1	1	0.53	0	0	1
<i>Brachystegia allenii</i> Hutch. & Burt Davy	Burrows13435	1	1	0.49	0	0	1
<i>Brachystegia boehmii</i> Taub.	OM3534 (JRAU)	1	1		0	0	0
<i>Brachystegia bussei</i> Harms	Herendeen 20-XII-97-2 (US)	0	1		0	0	0
<i>Brachystegia floribunda</i> Benth.	Burrows12203	1	1		0	0	0

<i>Brachystegia longifolia</i> Benth.	Burrows11258	1	1		0	0	0
<i>Brachystegia microphylla</i> Harms	Burrows12213	1	1		0	0	0
<i>Brachystegia spiciformis</i> Benth.	BrspiGeban	0	1	1.51	0	0	1
<i>Brachystegia stipulata</i> De Wild.	OM2043 (BNRH)	1	1		0	0	0
<i>Brackenridgea arenaria</i> (De Wild. & T. Durand) N. Robson	Burrows13453	1	0		0	0	0
<i>Brackenridgea zanguebarica</i> Oliv.	OM2377 (BNRH)	1	1	0.49	0	0	1
<i>Breonadia salicina</i> (Vahl) Hepper & J.R.I. Wood	OM2571 (JRAU)	1	1		0	1	1
<i>Brexia madagascariensis</i> (Lam.) Ker Gawl.	OM2676 (JRAU)	1	1	3.06	0	0	1
<i>Bridelia atroviridis</i> Müll.Arg.	Mwangoka1371 (M)	0	1		0	0	0
<i>Bridelia cathartica</i> G. Bertol. subsp. <i>Cathartica</i>	OM0455 (JRAU)	1	1	0.48	0	0	1
<i>Bridelia micrantha</i> (Hochst.) Baill.	OM1435 (JRAU)	0	1		1	0	0
<i>Bridelia mollis</i> Hutch.	OM1958 (JRAU)	1	1		0	0	0
<i>Bridelia taitensis</i> Vatke & Pax	JKM426A (EAH)	0	1		1	0	1
<i>Bridelia tenuifolia</i> Müll. Arg.	Leyens&Lobin206 (M)	0	1		0	0	0
<i>Brucea antidysenterica</i> J. F. Mill.	JKM647 (EAH)	0	1		1	1	0
<i>Bruguiera gymnorhiza</i> (L.) Savigny	OM2487 (JRAU)	1	1	0.5	0	0	1
<i>Brunia albiflora</i> E. Phillips	OM3116 (JRAU)	1	1		0	0	0
<i>Buddleja dysophylla</i> (Benth.) Radlk.	OM2296 (JRAU)	1	1		0	0	0
<i>Buddleja saligna</i> Willd.	OM1783 (JRAU)	1	1		0	0	0
<i>Buddleja salviifolia</i> (L.) Lam.	OM1780 (JRAU)	1	1		0	0	0
<i>Bullockia pseudosetiflora</i> (Bridson) Razafim., Lantz & B. Bremer	PMMCANTP (EAH)	1	0		1	1	0
<i>Bullockia setiflora</i> (Hiern) Razafim., Lantz & B. Bremer	JKM&AMM882 (EAH)	1	1		0	1	1
<i>Bullockia setiflora</i> (Hiern) Razafim., Lantz & B. Bremer	JKM&AMM574 (EAH)	1	1		0	0	0
<i>Burchellia bubalina</i> (L. f.) Sims	OM3160 (JRAU)	1	1		0	0	0
<i>Burkea africana</i> Hook.	OM2128 (JRAU)	1	1		0	0	0

<i>Burttidavya nyasica</i> Hoyle	OM1666 (JRAU)	1	1	1.92	0	0	1
<i>Buxus macowanii</i> Oliv.	OM1762 (JRAU)	1	1		0	0	1
<i>Buxus natalensis</i> (Oliv.) Hutch.	OM1768 (JRAU)	1	1	0.25	0	0	1
<i>Buxus obtusifolia</i> (Mildbr.) Hutch.	JKM851 (EAH)	1	0	0.3	0	0	1
<i>Cadaba aphylla</i> (Thunb.) Wild	OM3203 (JRAU)	1	1		0	0	0
<i>Cadaba farinosa</i> Forssk.	JKM&AMM421 (EAH)	1	1		1	0	1
<i>Cadaba kirkii</i> Oliv.	OM3579 (JRAU)	1	1		0	0	1
<i>Cadaba termitaria</i> N.E. Br.	OM1930 (JRAU)	1	1		0	0	1
<i>Caesalpinia decapetala</i> (Roth) Alston	JKM&AMM410 (EAH)	1	1	0.48	0	1	0
<i>Caesaria</i> sp	Casp12551	1	0		0	0	0
<i>Callichilia orientalis</i> S. Moore	OM2181 (JRAU)	1	1	0.47	0	0	1
<i>Calodendrum capense</i> Thunb.	OM1542 (JRAU)	1	1		0	0	0
<i>Calpocalyx dinklagei</i> Harms	PM4845	1	1		0	0	0
<i>Calpurnia aurea</i> (Aiton) Benth.	OM1532 (JRAU)	1	1	0.49	1	0	0
<i>Calpurnia sericea</i> Harv.	Abbott9196 (BNRH)	1	1		0	0	1
<i>Calycosiphonia macrochlamys</i> (K. Schum.) Robbr.	PM5098	1	1		0	0	0
<i>Campylospermum calanthum</i> (Gilg) Farron	PM4821	1	0		0	0	0
<i>Campylospermum flavum</i> (Schumach. & Thonn.) Farron	PM5012	1	0		0	0	0
<i>Campylospermum laxiflorum</i> (De Wild. & T. Durand) Tiegh.	PM4847	1	0		0	0	0
<i>Campylospermum mannii</i> (Oliv.) Tiegh.	PM5176	1	0		0	0	0
<i>Campylospermum sulcatum</i> (Tiegh.) Farron	PM5491	1	0		0	0	0
<i>Canarium madagascariense</i> Engl.	Burrows09710	1	1	3.36	0	0	1
<i>Canthium armatum</i> (K. Schum.) Lantz	OM1548 (JRAU)	1	1		0	0	0
<i>Canthium ciliatum</i> (Klotzsch ex Eckl. & Zeyh.) Kuntze	OM1741 (JRAU)	1	1		0	0	0

<i>Canthium inerme</i> (L. f.) Kuntze	OM1547 (JRAU)	1	1		0	0	0
<i>Canthium kilifiense</i> Bridson	JKM849 (EAH)	0	1	0.5	0	0	1
<i>Canthium spinosum</i> (Klotzsch ex Eckl. & Zeyh.) Kuntze	Abbott9256 (BNRH)	1	1	1.14	0	0	1
<i>Canthium suberosum</i> Codd	Abbott9239 (BNRH)	1	1		0	0	0
<i>Canthium vanwykii</i> Tilney & Kok	Abbott9155 (BNRH)	1	1		0	0	0
<i>Capparis erythrocarpos</i> Isert	OM2332 (JRAU)	1	1		1	0	1
<i>Capparis fascicularis</i> DC.	OM1640 (JRAU)	1	1		1	1	1
<i>Capparis sepiaria</i> var. <i>citrifolia</i> (Lam.) Toelken	OM3626	0	1	0.51	0	0	1
<i>Capparis sepiaria</i> var. <i>subglabra</i> (Oliv.) DeWolf	OM2746 (JRAU)	1	1	0.49	1	0	0
<i>Capparis tomentosa</i> Lam.	OM1112 (JRAU)	1	1		1	0	1
<i>Carapa procera</i> DC.	PM4995	1	1		0	0	0
<i>Carissa bispinosa</i> (L.) Desf. ex Merxm.	OM3065 (JRAU)	1	1		1	0	1
<i>Carissa bispinosa</i> (L.) Desf. ssp. <i>bispinosa</i>	OM0409 (JRAU)	1	1		1	0	1
<i>Carissa macrocarpa</i> (Eckl.) A. DC.	OM1751 (JRAU)	1	1		0	0	1
<i>Carissa macrocarpa</i> (Eckl.) A. DC.	OM2650 (JRAU)	1	1		0	0	1
<i>Carissa spinarum</i> L.	JKM511 (EAH)	1	1		1	0	1
<i>Carissa tetramera</i> (Sacleux) Stapf	RBN210 (KNP)	1	1	0.53	0	0	1
<i>Carpodiptera africana</i> Mast.	OM3504	1	1	0.51	0	0	1
<i>Carpolobia goetzei</i> Gürke	OM2459 (JRAU)	1	1	1.53	0	0	1
<i>Carpolobia lutea</i> G. Don	PM5244	1	1		0	0	0
<i>Carvalhoa campanulata</i> K.Schum.	Massawe147	0	1		0	0	0
<i>Casearia barteri</i> Mast.	PM5482	1	1		0	0	0
<i>Casearia gladiiformis</i> Mast.	OM2323 (JRAU)	1	1		0	1	0
<i>Casearia</i> sp. nov.	Abbott9191 (BNRH)	1	1		0	0	0
<i>Cassia abbreviata</i> Oliv.	JKM863 (EAH)	1	0		1	0	1
<i>Cassia abbreviata</i> Oliv. ssp. <i>abbreviata</i>	OM2047 (JRAU)	1	1		0	0	1
<i>Cassia abbreviata</i> Oliv. ssp. <i>beareana</i>	OM3388 (JRAU)	1	1		0	0	1
<i>Cassia afrodistula</i> Brenan var. <i>patentipila</i>	OM2629 (JRAU)	1	1		0	0	1

<i>Cassine peragua</i> L.	Abbott9178 (BNRH)	1	1		0	0	0
	Van Jaarsveld s.n.						
<i>Cassine schinoides</i> (Spreng.) R. H. Archer	(PRE)	0	1		0	0	1
<i>Cassinopsis ilicifolia</i> (Hochst.) Kuntze	OM1892 (JRAU)	1	1		0	0	1
<i>Cassinopsis tinifolia</i> Harv.	Abbott9166 (BNRH)	1	1		0	0	1
<i>Cassipourea gummiflua</i> Tul. var. <i>verticillata</i>	OM1882 (JRAU)	1	1		0	0	0
<i>Cassipourea malosana</i> (Baker) Alston	Abbott9115 (BNRH)	1	1		0	1	1
<i>Cassipourea sericea</i> (Engl.) Alston	PM5249	1	1		0	0	0
	JKM&AMM636						
<i>Cassytha filiformis</i> L.	(EAH)	1	0		1	0	1
<i>Catha edulis</i> (Vahl) Forssk.	OM2079 (JRAU)	1	1	0.49	1	0	0
<i>Catunaregam nilotica</i> (Stapf) Tirveng.	JKM631 (EAH)	1	0		1	1	1
<i>Catunaregam obovata</i> (Hochst.) A.E. Gonç.	OM3277 (JRAU)	1	1	0.49	0	0	1
<i>Catunaregam spinosa</i> (Thunb.) Tirveng. ssp. <i>spinosa</i>	OM1406	1	1		1	0	1
<i>Catunaregam swynnertonii</i> (S. Moore) Bridson	OM2353 (JRAU)	1	1		0	0	0
<i>Catunaregam taylorii</i> (S. Moore) Bridson	OM3932	1	1		0	0	1
<i>Cavacoa aurea</i> (Cavaco) J. Léonard	OM2035 (JRAU)	1	1	1.52	0	0	1
<i>Celtis africana</i> Burm. f.	OM1225 (JRAU)	1	1		1	1	1
<i>Celtis gomphophylla</i> Baker	Abbott9159 (BNRH)	1	1		1	1	1
<i>Celtis mildbraedii</i> Engl.	OM1567 (JRAU)	1	1		0	1	1
<i>Celtis philippensis</i> Blanco	Burrows12722	1	1		0	1	1
<i>Cephalanthus natalensis</i> Oliv.	OM1583 (JRAU)	1	1		0	0	0
<i>Ceriops tagal</i> (Perr.) C.B. Rob.	Chang9711902 (SYS)	1	1	0.5	0	0	1
<i>Chaetachme aristata</i> Planch.	OM1530 (JRAU)	1	1		0	1	0
<i>Chamaecrista mimosoides</i> (L.) Greene	JKM499 (EAH)	1	0		1	1	1
<i>Chasmanthera dependens</i> Hochst.	JKM561 (EAH)	1	1		1	1	0
<i>Chassalia kenyensis</i> Verdc.	JKM526 (EAH)	1	0	0.49	0	1	0
<i>Chassalia parvifolia</i> K.Schum.	Chpar9107	1	0		0	0	0

<i>Chassalia umbraticola</i> Vatke	Chumb8321	1	0		0	0	0
<i>Chazaliella abrupta</i> (Hiern) E.M.A. Petit & Verdc.	JKM864 (EAH)	1	1	11.98	0	0	1
	AMM,GM&JKM7476						
<i>Cheilanthes viridis</i> (Forssk.) Sw.	(EAH)	1	0		1	0	1
<i>Chionanthus foveolatus</i> (E. Mey.) Stearn	OM1832 (JRAU)	1	1		0	0	0
<i>Chlamydocola chlamydantha</i> (K. Schum.) M. Bodard	PM4873	1	1		0	0	0
<i>Chrysanthemoides monilifera</i> (L.) Norl.	Abbott9171 (BNRH)	1	1		0	0	1
<i>Chrysobalanus icaco</i> L.	PM5199	1	1		0	0	0
<i>Chrysophyllum subnudum</i> Baker	Philippe 133	1	0		0	0	0
<i>Chrysophyllum viridifolium</i> J. M. Wood & Franks	OM2668 (JRAU)	1	1		1	1	0
<i>Chytranthus prieurianus</i> Baill.	ChprieKE272	0	1		0	0	0
<i>Chytranthus talbotii</i> (Baker f.) Keay	PM4819	1	1		0	0	0
<i>Cissampelos pareira</i> L.	AMM7505 (EAH)	1	0		1	1	1
<i>Cissus aphylla</i> Chiov.	JKM434 (EAH)	1	1		0	0	0
<i>Cissus cactiformis</i> Gilg	OM1316 (JRAU)	1	1	0.51	1	0	0
<i>Cissus cornifolia</i> (Baker) Planch.	OM2542 (JRAU)	1	1		0	0	0
<i>Cissus integrifolia</i> (Baker) Planch.	OM2397 (JRAU)	1	1		0	1	1
<i>Cissus petiolata</i> Hook. f.	JKM663 (EAH)	1	1		1	1	0
<i>Cissus phymatocarpa</i> Masinde & L. E. Newton	JKM483 (EAH)	0	1		0	0	0
<i>Cissus rotundifolia</i> (Forssk.) Vahl	JKM438 (EAH)	1	1		1	0	0
<i>Cladostemon kirkii</i> (Oliv.) Pax & Gilg	OM2389 (JRAU)	1	1	16.09	0	0	1
	JKM&AMM547						
<i>Clausena anisata</i> (Willd.) Hook. f. ex Benth.	(EAH)	0	1		1	1	0
<i>Cleistanthus polystachyus</i> Planch.	Festo457 (MO)	0	1		0	0	0
<i>Cleistanthus schlechteri</i> (Pax) Hutch.	OM2539 (JRAU)	1	1	3.18	0	0	1
<i>Cleistoclamis kirkii</i> (Benth.) Oliv.	OM2339 (JRAU)	1	1		0	0	0
<i>Clematis brachiata</i> Thunb.	OM1974 (JRAU)	1	1		1	1	0

<i>Clerodendrum buchneri</i> Gürke	OM4093	1	0		0	0	0
<i>Clerodendrum cephalanthum</i> Oliv.	Burrows12817	1	1		0	0	0
<i>Clerodendrum frutectorum</i> S. Moore	Burrows13497	1	1		0	0	0
<i>Clerodendrum glabrum</i> E. Mey.	Abbott9161 (BNRH)	1	1		0	0	1
	Burrows11018						
<i>Clerodendrum incisum</i> Klotzsch	(BNRH)	1	1	0.5	0	0	1
<i>Clerodendrum ternatum</i> Schinz	Burrows12422	1	1		0	0	0
<i>Cliffortia burchellii</i> Stapf	TEM.702.2	1	1		0	0	0
<i>Cliffortia densa</i> Weim.	CM.702.26	1	1		0	0	0
<i>Cliffortia ferruginea</i> L. f.	CM.710.22	1	0		0	0	0
<i>Cliffortia graminea</i> L. f.	OM3089	1	1		0	0	0
<i>Cliffortia heterophylla</i> Weim.	ET.625.13	1	1		0	0	0
<i>Cliffortia serpyllifolia</i> Cham. & Schltl.	TEM.704.9	1	1		0	0	0
<i>Cliffortia stricta</i> Weim.	EFG.706.20	1	1		0	0	0
<i>Cliffortia subsetacea</i> (Eckl. & Zeyh.) Diels ex Bolus & Wolley-Dod	CC.626.12	1	1		0	0	0
<i>Cliffortia tricuspidata</i> Harv.	Clfil71119	1	0		0	0	0
<i>Cliffortia triloba</i> Harv.	SM.731.11	1	1		0	0	0
	JKM&AMM409						
<i>Clitoria ternatea</i> L.	(EAH)	1	1		1	0	1
<i>Clutia abyssinica</i> Jaub. & Spach	Abbott9231 (BNRH)	1	1	0.52	0	1	0
var. <i>abyssinica</i>							
<i>Clutia monticola</i> S. Moore	BB12688	1	0		0	0	0
<i>Clutia pulchella</i> L.	Abbott9112 (BNRH)	1	1		0	0	0
<i>Clutia</i> sp. nov.	Abbott9205 (BNRH)	1	1		0	0	0
<i>Cnestis polyphylla</i> Lam.	Abbott9113 (BNRH)	1	1	2.87	0	0	1
<i>Cocculus</i> sp.	CoGeba	1	1		1	0	1
<i>Cocos nucifera</i> L.	Conuc4480	1	1		0	0	0
<i>Coddia rudis</i> (E. Mey. ex Harv.) Verdc.	OM2687 (JRAU)	1	1	4.31	0	0	1
<i>Coelocaryon preussii</i> Warb.	PM5486	0	1		0	0	0

	Swensen228 (USNC)						
<i>Coffea arabica</i> L.	/ n.a.	1	1		1	1	0
<i>Coffea eugenioides</i> S. Moore	JKM317 (EAH)	0	1	0.49	0	1	0
<i>Coffea ligustroides</i> S. Moore	MWC16159 (K)	0	1		0	0	0
<i>Coffea pseudozanguebariae</i> Bridson	JKM853 (EAH)	1	1	0.49	0	0	1
<i>Coffea racemosa</i> Lour.	OM2434 (JRAU)	1	1		0	0	0
<i>Coffea rhamniphylla</i> (Chiov.) Bridson	Corha5277	0	1		1	0	1
<i>Coffea salvatrix</i> Swynn. & Phillipson	MWC19445 (K)	1	1		0	0	0
<i>Coffea sessiliflora</i> Bridson	Coses9024	1	1		0	0	0
<i>Coffea zanguebariae</i> Lour.	OM3515	1	1	0.98	0	0	1
<i>Cola acuminata</i> (P. Beauv.) Schott & Endl.	Philippe 061	1	1		0	0	0
<i>Cola cauliflora</i> Mast.	PM4866	1	1		0	0	0
<i>Cola digitata</i> Mast.	PM4993	1	1		0	0	0
<i>Cola greenwayi</i> Brenan	OM2160 (JRAU)	0	1	0.48	0	0	1
<i>Cola lateritia</i> K. Schum.	PM4955	1	1		0	0	0
<i>Cola lepidota</i> K. Schum.	PM4815	1	1		0	0	0
<i>Cola mossambicensis</i> Wild	OM2321 (JRAU)	1	1	0.96	0	0	1
<i>Cola natalensis</i> Oliv.	OM1860 (JRAU)	1	1	0.48	0	0	1
<i>Cola praeacuta</i> Brenan & Keay	PM4960	1	1		0	0	0
<i>Cola rostrata</i> K. Schum.	PM4820	1	1		0	0	0
<i>Cola semecarpophylla</i> K. Schum.	PM4867	1	1		0	0	0
<i>Cola suboppositifolia</i> Cheek	PM4899	1	1		0	0	0
<i>Cola uloloma</i> Brenan	JKM854 (EAH)	1	1	0.5	0	0	1
<i>Coleonema album</i> (Thunb.) Bartl. & H.L. Wendl. juniperinum	OM3124 (JRAU)	1	1		0	0	0
<i>Colophospermum mopane</i> (J. Kirk ex Benth.) J. Kirk ex J. Léonard	RL1558 (JRAU)	1	1		0	0	0
	J.R. Abbott 24812 (FLAS)						
<i>Colubrina asiatica</i> (L.) Brongn.	(FLAS)	1	1	1.01	0	0	1
<i>Combretum aculeatum</i> Vent.	JKM408 (EAH)	1	1	0.53	1	0	0

<i>Combretum adenogonium</i> Steud. ex A. Rich.	OM2123 (JRAU)	1	1		1	0	1
<i>Combretum albopunctatum</i> Suess.	OM1038 (JRAU)	1	1		0	0	0
<i>Combretum apiculatum</i> Sond.	AMM,GM&JKM7511 (EAH)	1	1	0.49	0	0	1
<i>Combretum apiculatum</i> subsp. <i>leutweinii</i> (Schinz) Exell	OM1018 (JRAU)	1	1		0	0	0
<i>Combretum bracteosum</i> (Hochst.) Brandis	OM1676 (JRAU)	1	1		0	0	1
<i>Combretum caffrum</i> (Eckl. & Zeyh.) Kuntze	OM1750 (JRAU)	1	1	2.49	0	0	1
<i>Combretum celastroides</i> ssp. <i>orientale</i> Exell	OM1917 (JRAU)	1	1	0.5	0	0	1
<i>Combretum celastroides</i> Welw. ex M. A. Lawson	OM&MvdB28 (JRAU)	1	1		0	0	0
<i>Combretum collinum</i> Fresen.	JKM&AMM556 (EAH)	1	1		1	0	1
<i>Combretum collinum</i> subsp. <i>suluense</i> (Engl. & Diels) Okafor ssp. <i>suluense</i>	OM&MvdB34 (JRAU)	1	0		0	0	0
<i>Combretum collinum</i> subsp. <i>gazense</i> (Swynn. & Baker f.) Okafor	Cocolg1024	1	0		0	0	0
<i>Combretum collinum</i> subsp. <i>taborense</i> (Engl.) Okafor	RBN170 (KNP)	1	0		0	0	0
<i>Combretum edwardsii</i> Exell	OM1584 (JRAU)	1	1	0.48	0	0	1
<i>Combretum engleri</i> Schinz	OM1025 (JRAU)	1	1		0	0	0
<i>Combretum erythrophyllum</i> (Burch.) Sond.	RL1344 (JRAU)	1	1	0.5	0	0	1
<i>Combretum hereroense</i> Schinz	OM2400 (JRAU)	1	1		1	0	1
<i>Combretum imberbe</i> Wawra	OM1019 (JRAU)	1	1	1.44	0	0	1
<i>Combretum kirkii</i> M. A. Lawson	OM2714 (JRAU)	1	1	1.55	0	0	1
<i>Combretum kraussii</i> Hochst.	OM1582 (JRAU)	1	1		0	0	1
<i>Combretum kraussii</i> Hochst.	Conel26	1	1	0.48	0	0	1
<i>Combretum microphyllum</i> Klotzsch	OM2038 (JRAU)	1	1	0.53	0	0	1
<i>Combretum mkuzense</i> J. D. Carr & Retief	OM1569 (JRAU)	1	1	0.5	0	0	1
<i>Combretum moggii</i> Exell	OM1586 (JRAU)	1	1		0	0	0
<i>Combretum molle</i> R. Br. ex G. Don	RL1644 (JRAU)	1	1		1	0	1

<i>Combretum mossambicense</i> (Klotzsch) Engl.	OM2068 (JRAU)	1	1		0	0	0
<i>Combretum obovatum</i> F. Hoffm.	OM4166	1	0		0	0	0
<i>Combretum oxystachyum</i> Welw. ex M. A. Lawson	OM1056 (JRAU)	1	1		0	0	0
<i>Combretum padoides</i> Engl. & Diels	OM2388 (JRAU)	1	1		0	0	1
<i>Combretum paniculatum</i> Vent.	RL1661 (JRAU)	1	1		1	0	1
<i>Combretum petrophilum</i> Retief	OM2007 (JRAU)	1	1		0	0	0
<i>Combretum pisoniiflorum</i> (Klotzsch) Engl.	OM2600 (JRAU)	1	1		0	0	1
<i>Combretum platypetalum</i> Welw. ex M. A. Lawson	OM2092 (JRAU)	1	1		0	0	0
<i>Combretum psidioides</i> subsp. <i>dinteri</i> (Schinz) Exell	OM1039 (JRAU)	1	1		0	0	1
<i>Combretum psidioides</i> Welw. subsp. <i>psidioides</i>	OM2052 (JRAU)	1	1		0	0	0
<i>Combretum stylesii</i> O. Maurin, Jordaan & A.E. van Wyk	Cotan20719	1	1		0	0	1
<i>Combretum tanaense</i> Clark	Coten1089	1	0	0.96	1	0	0
<i>Combretum tenuipes</i> Engl. & Diels	OM1089 (JRAU)	1	1		1	0	1
<i>Combretum vendae</i> A.E. van Wyk	OM&MvdB09 (JRAU)	1	1		0	0	0
<i>Combretum wattii</i> Exell	OM0995 (JRAU)	1	1		0	0	0
<i>Combretum woodii</i> Dummer	OM1646 (JRAU)	1	1	0.48	0	0	1
<i>Combretum zeyheri</i> Sond.	AMM,GM&JKM7491 (EAH)	1	1		1	0	1
<i>Commiphora africana</i> (A. Rich.) Engl. subsp. <i>Edulis</i>	OM1309 (JRAU)	1	1		1	0	1
<i>Commiphora africana</i> (A. Rich.) Engl. var. <i>africana</i>	AMM,GM&JKM7514 (EAH)	1	0		1	0	1
<i>Commiphora eminii</i> Engl.	JKM&AMM601 (EAH)	0	1	1.06	0	0	1
<i>Commiphora glandulosa</i> Schinz	RBN160 (KNP)	1	1		0	0	0
<i>Commiphora harveyi</i> (Engl.) Engl.	OM1455 (JRAU)	1	1		0	0	1
<i>Commiphora kua</i> (R. Br. ex Royle) Vollesen	Coha110714	1	1	0.5	1	0	0

<i>Commiphora marlothii</i> Engl.	OM1587 (JRAU)	1	1		0	0	0
<i>Commiphora mollis</i> (Oliv.) Engl.	OM1275 (JRAU)	1	1		0	0	0
<i>Commiphora mossambicensis</i> (Oliv.) Engl.	OM4075	1	1		0	0	0
<i>Commiphora neglecta</i> l. Verd.	RL1343 (JRAU)	1	1	0.5	0	0	1
<i>Commiphora pyracanthoides</i> Engl.	OM1310 (JRAU)	1	1		0	0	0
<i>Commiphora samharensis</i> Schweinf.	AMM7515 (EAH)	1	1	0.51	1	0	0
<i>Commiphora schimperi</i> (O. Berg) Engl.	OM1361 (JRAU)	1	1		1	0	1
<i>Commiphora schlechteri</i> Engl.	OM3599 (JRAU)	1	1		0	0	1
<i>Commiphora serrata</i> Engl.	OM2660 (JRAU)	1	1	2.26	0	0	1
<i>Commiphora woodii</i> Engl.	OM2276 (JRAU)	1	1		0	0	1
<i>Commiphora zanzibarica</i> (Baill.) Engl.	OM2432 (JRAU)	1	1	5.19	0	0	1
<i>Conostomium quadrangulare</i> (Rendle) Cufod.	JKM466 (EAH)	1	1	0.49	1	0	0
<i>Copaifera baumiana</i> Harms	Burrows13411	1	0		0	0	0
<i>Coptosperma littorale</i> (Hiern) Degreeef	OM3775 (JRAU)	1	1	0.49	0	0	1
<i>Coptosperma nigrescens</i> Hook. f.	Burrows12707	1	1		0	0	0
<i>Coptosperma rhodesiacum</i> (Bremek.) Degreeef	CS24 (JRAU)	1	1		0	0	0
<i>Coptosperma supra-axillare</i> (Hemsl.) Degreeef ssp. <i>axillare</i>	RBN302 (KNP)	1	1		0	0	0
<i>Coptosperma zygoon</i> (Bridson) Degreeef	OM1908 (JRAU)	1	1		0	0	0
<i>Cordia africana</i> Lam.	JKM&AMM551 (EAH)	1	1		1	1	0
<i>Cordia caffra</i> Sond.	OM1561 (JRAU)	1	1		0	0	1
<i>Cordia goetzei</i> Gürke	OM3479	1	1		0	0	0
<i>Cordia grandicalyx</i> Oberm.	OM0837 (JRAU)	1	1		0	0	0
<i>Cordia monoica</i> Roxb.	JKM451 (EAH)	1	1		1	0	1
<i>Cordia ovalis</i> R. Br. ex A. DC.	OM0353 (JRAU)	1	1		1	0	1
<i>Cordia sinensis</i> Lam.	OM0354 (JRAU)	1	1	3.51	1	0	0
<i>Cordia</i> sp.	JKM&AMM454 (EAH)	1	1		1	0	0

<i>Cordia stuhlmannii</i> Gürke	OM2410 (JRAU)	1	1		0	0	0
<i>Cordia subcordata</i> Lam.	Cosub2071	1	1	4.54	0	0	1
<i>Cordia torrei</i> E. S. Martins	OM2588 (JRAU)	1	1		0	0	0
<i>Cordyla africana</i> Lour.	OM2745 (JRAU)	1	1		1	0	1
<i>Cornus volkensii</i> Harms	OM3999	1	1		0	0	0
	JKM&AMM878						
<i>Craibia brevicaudata</i> (Vatke) Dunn	(EAH)	1	0		1	0	1
<i>Craibia zimmermannii</i> (Harms) Harms ex Dunn	OM2230 (JRAU)	1	1	0.49	0	0	1
<i>Crassula arborescens</i> (Mill.) Willd.	JG053 (JRAU)	1	1		0	0	1
<i>Craterispermum aristatum</i> Wernham	PM4876	1	0		0	0	0
<i>Craterispermum caudatum</i> Hutch.	PM5549	1	1		0	0	0
<i>Craterispermum schweinfurthii</i> Hiern	OM2654 (JRAU)	1	1		0	0	0
<i>Cremaspora triflora</i> (Thonn.) K.Schum. ssp. <i>confluens</i>	Burrows12554	1	1		0	0	0
<i>Crossandra subacaulis</i> C.B. Clarke	AMM7498 (EAH)	1	0	0.58	1	0	0
<i>Crossopteryx febrifuga</i> (G.Don) Benth.	OM2347 (JRAU)	1	1		1	0	1
<i>Crotalaria agatiflora</i> subsp. <i>imperialis</i> (Taub.) Polhill	MIR096	1	1	0.49	1	0	0
<i>Crotalaria axillaris</i> Aiton	Craxi061	1	0		0	1	0
<i>Crotalaria capensis</i> Jacq.	OM3786 (JRAU)	1	1		0	0	1
<i>Crotalaria fascicularis</i> Polhill	Crfas090	1	1	1.46	0	1	0
<i>Crotalaria goodiiiformis</i> Vatke	JKM497 (EAH)	0	1	0.49	1	0	0
<i>Crotalaria keniensis</i> Baker f.	Crken118	1	1		1	1	0
<i>Crotalaria laburnifolia</i> subsp. <i>australis</i> (Baker f.) Polhill ssp. <i>australis</i>	OM0608 (JRAU)	1	1		1	1	1
<i>Crotalaria lachnocarpoides</i> Engl.	Crlac159	1	0	0.49	0	1	0
<i>Crotalaria lachnophora</i> Hochst. ex A. Rich.	Crlac2035	1	1	0.49	0	1	0
<i>Crotalaria lukwangulensis</i> Harms	Crluk104	1	1		0	0	0
<i>Crotalaria mauensis</i> Baker f.	Crmau129	1	1	0.48	1	0	0

<i>Crotalaria monteiroi</i> var. <i>galpinii</i> Burt Davy ex I. Verd.ssp. <i>galpinii</i>	MIR008 (JRAU)	1	1		0	0	1
<i>Croton dichogamus</i> Pax	Crdic17714	1	1		1	1	1
<i>Croton gratissimus</i> Burch. var. <i>gratissimus</i>	OM1946 (JRAU)	1	1		1	0	1
<i>Croton longiracemosus</i> Hutch.	PM5220	1	1		0	0	0
<i>Croton madandensis</i> S. Moore	RL1539 (JRAU)	1	1		0	0	0
<i>Croton megalobotrys</i> Müll. Arg.	RL1574 (JRAU)	1	1		0	0	1
<i>Croton menyharthii</i> Pax	KF147464	1	1		0	0	1
<i>Croton pseudopulchellus</i> Pax	RBN262 (KNP)	1	1		0	0	1
<i>Croton somalensis</i> Vatke ex Pax	JKM945 (EAH)	1	1	0.51	1	0	0
<i>Croton steenkampianus</i> Gerstner	RBN151 (KNP)	1	1		0	0	1
<i>Croton sylvaticus</i> Hochst.	OM2246 (JRAU)	1	1		0	0	1
<i>Crotonogyne strigosa</i> Prain	P4798	1	1		0	0	0
<i>Crotonogynopsis</i> sp.	PM4898	1	1		0	0	0
<i>Cryptocarya latifolia</i> Sond.	Abbott9255 (BNRH)	1	1		0	0	1
<i>Cryptocarya liebertiana</i> Engl.	OM2300 (JRAU)	1	1	0.5	0	0	1
<i>Cryptocarya woodii</i> Engl.	Abbott9116 (BNRH)	1	1	0.5	0	0	1
<i>Cryptocarya wyliei</i> Stapf	Abbott9110 (BNRH)	1	1		0	0	1
<i>Cunonia capensis</i> L.	Abbott9237 (BNRH)	1	1		0	0	0
<i>Curtisia dentata</i> (Burm. f.) C. A. Sm.	OM3167 (JRAU)	1	1		0	0	0
<i>Cussonia arborea</i> Hochst. ex A. Rich.	BDV010 (JRAU)	1	1		1	1	0
<i>Cussonia arenicola</i> Strey	BDV105 (JRAU)	0	1	2.09	0	0	1
<i>Cussonia natalensis</i> Sond.	OM0975 (JRAU)	1	1		0	0	1
<i>Cussonia nicholsonii</i> Strey	BDV077 (JRAU)	0	1		0	0	1
<i>Cussonia paniculata</i> subsp. <i>sinuata</i> (Reyneke & Kok) De Winter	BDV082 (JRAU)	0	1		0	0	1
<i>Cussonia sphaerocephala</i> Strey	OM3747 (JRAU)	0	1	2.71	0	0	1
<i>Cussonia spicata</i> Thunb.	OM1553 (JRAU)	1	1		0	1	1
<i>Cussonia thyrsiflora</i> Thunb.	OM3100 (JRAU)	1	1		0	0	1

<i>Cussonia transvaalensis</i> Reyneke	BDV058 (JRAU)	1	1		0	0	0
<i>Cussonia zimmermannii</i> Harms	OM3922	1	1	1.01	0	0	1
<i>Cussonia zuluensis</i> Strey	BDV022 (JRAU)	0	1	1	0	0	1
<i>Cuviera trilocularis</i> Hiern	PM4922	1	1		0	0	0
<i>Cyathea dregei</i> Kunze	Cydre2587	1	0		0	0	1
<i>Cyathea humilis</i> Hieron.	Cyhum2644	1	0		1	0	0
<i>Cyathea manniana</i> Hook.	Cyman2622	1	0		1	1	0
<i>Cyathula cylindrica</i> Moq.	JKM660 (EAH)	1	0		1	1	0
	Gaudichaud100422						
<i>Cycas thouarsii</i> Gaudich.	(HEID)	1	1		0	0	0
<i>Cyclopia genistoides</i> (L.) R. Br.	JWB022 (NH)	1	1		1	0	0
<i>Cylicomorpha parviflora</i> Urb.	Cypar3212	1	1	2.39	1	0	0
<i>Cynometra suaheliensis</i> (Taub.) Baker f.	JKM848 (EAH)	1	1	1.47	0	0	1
<i>Cyphostemma cyphopetalum</i> (Fresen.) Desc. ex Wild & R. B. Drumm.	JKM413 (EAH)	0	1		1	1	0
<i>Cyphostemma cyphopetalum</i> (Fresen.) Desc. ex Wild & R.B. Drumm. var. cyphopetalum	AMM7493 (EAH)	1	0		0	0	0
<i>Cyphostemma knittelii</i> (Gilg) Desc.	AMM7504 (EAH)	1	0		0	0	0
<i>Dacryodes buettneri</i> (Engl.) H. J. Lam	Philippe 041	1	1		0	0	0
<i>Dacryodes edulis</i> (G. Don) H. J. Lam	Philippe 148	1	1		0	0	0
<i>Dacryodes klaineana</i> (Pierre) H. J. Lam	PM4972	1	1		0	0	0
<i>Dacryodes letestui</i> (Pellegr.) H. J. Lam	SIMAB 010113	1	1		0	0	0
<i>Dactyladenia pallescens</i> (Baill.) Prance & F. White	PM5325	1	0		0	0	0
<i>Dactyladenia staudtii</i> (Engl.) Prance & F. White	PM5363	1	1		0	0	0
<i>Dahlgrenodendron natalense</i> (J. H. Ross) J. J. M. van der Merwe & A.E. van Wyk	Abbott9240 (BNRH)	1	1		0	0	0
<i>Dais cotinifolia</i> L.	OM1708 (JRAU)	0	1		0	0	0
<i>Dalbergia arbutifolia</i> Baker	OM2712 (JRAU)	1	1		0	0	1
<i>Dalbergia armata</i> E. Mey.	OM3271 (JRAU)	1	1	1.93	0	0	1

<i>Dalbergia boehmii</i> Taub.	OM2452 (JRAU)	1	1		0	0	1
	AMM,GM&JKM7499						
<i>Dalbergia melanoxyton</i> Guill. & Perr.	(EAH)	0	1		1	0	1
<i>Dalbergia multijuga</i> E. Mey.	Abbott9158 (BNRH)	1	1	0.49	0	0	1
<i>Dalbergia nitidula</i> Baker	OM2534 (JRAU)	0	1		0	0	0
<i>Dalbergia obovata</i>	Abbott9170 (BNRH)	1	1		0	0	1
	Lavin s.n. (K) /						
<i>Dalbergiella nyasae</i> Baker f.	HU1074 (USDA)	1	1		0	0	0
<i>Dasylepis thomasi</i> Obama & Breteler	PM4966	1	1		0	0	0
<i>Deinbollia borbonica</i> f. <i>arenicola</i> Capuron	OM3588	1	1		0	0	0
<i>Deinbollia kilimandscharica</i> Taub.	DekilGeba	1	1	0.58	1	0	0
<i>Deinbollia maxima</i> Gilg	PM5077	1	1		0	0	1
<i>Deinbollia oblongifolia</i> (E. Mey. ex Arn.) Radlk.	RL1351 (JRAU)	1	1	0.69	0	0	1
<i>Deinbollia pycnophylla</i> Gilg ex Radlk.	PM4967	1	1		0	0	0
<i>Deinbollia xanthocarpa</i> (Klotzsch) Radlk.	OM2067 (JRAU)	1	1		0	0	1
<i>Delonix elata</i> (L.) Gamble	Deela74	1	0	0.48	1	0	0
	PS0263MT01						
<i>Derris trifoliata</i> Lour.	(IMPLAD)	0	1	3.89	0	0	1
<i>Desbordesia glaucescens</i> (Engl.) Tiegh.	PM4968	1	1		0	0	0
<i>Dialium corbisieri</i> Staner	Philippe 059	1	0		0	0	0
<i>Dialium pachyphyllum</i> Harms	PM5015	1	0		0	0	0
<i>Dialium polyanthum</i> Harms	Philippe 054	1	0		0	0	0
<i>Dialium schlechteri</i> Harms	OM2498 (JRAU)	1	1	0.42	0	0	1
<i>Dialium tessmannii</i> Harms	SIMAB 010109	1	1		0	0	0
<i>Dichapetalum barbosae</i> Torre	OM2374 (JRAU)	1	0	1.57	0	0	1
<i>Dichapetalum cymosum</i> (Hook.) Engl.	OM2117	1	0		0	0	0
<i>Dichapetalum deflexum</i> (Klotzsch) Engl.	Burrows11086	1	0	1.57	0	0	1
<i>Dichapetalum edule</i> Engl.	Burrows11413	1	0	0.51	0	0	1
<i>Dichapetalum macrocarpum</i> Engl. ex K. Krause	Burrows12549	1	0		0	0	0

<i>Dichostemma glaucescens</i> Pierre	Philippe 137	1	1		0	0	0
	AMM,GM&JKM7513						
<i>Dichrostachys cinerea</i> (L.) Wight & Arn.	(EAH)	1	0		1	0	1
<i>Dichrostachys cinerea</i> (L.) Wight & Arn. ssp. <i>africana</i>	RBN359 (KNP)	1	1		1	0	1
<i>Dichrostachys cinerea</i> (L.) Wight & Arn. ssp. <i>nyassana</i>	OM0283 (JRAU)	1	1		1	0	1
<i>Dicraeopetalum stipulare</i> Harms	Disti6858	0	1	0.47	1	0	0
<i>Didelta spinosa</i> (L. f.) W. T. Aiton	MWC27188 (K)	1	1		0	0	0
<i>Dielsiothamnus divaricatus</i> (Diels) R.E. Fr.	Burrows10908	1	1		0	0	1
<i>Diogoia zenkeri</i> (Engl.) Exell & Mendonça	PM4927	1	0		0	0	0
<i>Dioscorea elephantipes</i> (L'Hér.) Engl.	LTM019 (JRAU)	1	1		0	0	0
<i>Dioscorea strydomiana</i> Wilkin	AMM6124 (BOL)	1	1	0.58	0	0	1
	Gilbert&Sebseke						
<i>Diospyros abyssinica</i> (Hiern) F. White	8803 (K)	0	1		1	1	0
<i>Diospyros batocana</i> Hiern	MWC21210 (K)	0	1		0	0	0
<i>Diospyros consolatae</i> Chiov.	JKM439 (EAH)	1	1		1	0	1
<i>Diospyros dichrophylla</i> (Gand.) De Winter	Abbott9162 (BNRH)	1	1		0	0	0
<i>Diospyros ferrea</i> (Willd.) Bakh.	MWC21193 (K)	0	1		0	0	0
<i>Diospyros gabunensis</i> Gürke	PM4851	1	1		0	0	0
<i>Diospyros glabra</i> (L.) De Winter	OM2933 (JRAU)	1	1		0	0	0
<i>Diospyros gracilescens</i> Gürke	PM5306	1	1		0	0	0
<i>Diospyros hoyleana</i> F. White	PM5301	1	0		0	0	0
<i>Diospyros inhacaensis</i> F. White	OM2225 (JRAU)	1	1	1.4	0	0	1
<i>Diospyros iturensis</i> (Gürke) Letouzey & F. White	PM5005	1	1		0	0	0
<i>Diospyros kirkii</i> Hiern	OM3526	1	1		0	0	0
<i>Diospyros korupensis</i> Gosline	PM4959	1	1		0	0	0
<i>Diospyros loureriana</i> G. Don subsp. <i>loureiriana</i>	OM2145 (JRAU)	1	1		0	0	0
<i>Diospyros lycioides</i> Desf. subsp. <i>lycioides</i>	OM2126 (JRAU)	1	1		0	0	0

<i>Diospyros lycioides</i> subsp. <i>guerkei</i> (Kuntze) De Winter	RBN343 (KNP)	1	1		0	0	0
<i>Diospyros mannii</i> Hiern	PM4908	1	0		0	0	0
<i>Diospyros mespiliformis</i> Hochst. ex A. DC.	OM0218 (JRAU)	1	1		1	1	1
<i>Diospyros natalensis</i> (Harv.) Brenan subsp. <i>natalensis</i>	OM1763 (JRAU)	1	1		0	0	0
<i>Diospyros natalensis</i> subsp. <i>nummularia</i> (Brenan) Jordaan	OM1838 (JRAU)	1	1		0	0	0
<i>Diospyros obliquifolia</i> (Hiern ex Gürke) F. White	PM5405	1	1		0	0	0
<i>Diospyros parviflora</i> (Schltr.) Bakh.	OM3918	1	1		0	0	0
<i>Diospyros piscatoria</i> Gürke	SIMAB 010205	1	1		0	0	0
<i>Diospyros preussii</i> Gürke	PM4954	1	1		0	0	0
<i>Diospyros pseudomespilus</i> subsp. <i>undabunda</i> (Hiern ex Greves) F. White	Burrows13440	1	1		0	0	0
<i>Diospyros rotundifolia</i> Hiern	OM2468 (JRAU)	1	1	0.44	0	0	1
<i>Diospyros shimbaensis</i> F. White	Abbott9246 (BNRH)	1	1	0.47	0	0	1
<i>Diospyros simii</i> (Kuntze) De Winter	Abbott9204 (BNRH)	1	1		0	0	1
<i>Diospyros squarrosa</i> Klotzsch	OM3485 (JRAU)	1	1		0	0	1
<i>Diospyros truncatifolia</i> Caveney	OM3480	1	1		0	0	0
<i>Diospyros ventricosa</i>	OM3948	1	1		0	0	0
<i>Diospyros verrucosa</i> Hiern	OM2379 (JRAU)	1	1	0.44	0	0	1
<i>Diospyros villosa</i> (L.) De Winter var. <i>villosa</i>	OM1575 (JRAU)	1	1		0	0	1
<i>Diospyros villosa</i> var. <i>parvifolia</i> (De Winter) De Winter	OM1365 (JRAU)	1	1		0	0	0
<i>Diospyros virgata</i> (Gürke) Brenan	Burrows13373	1	0		0	0	0
<i>Diospyros whyteana</i> (Hiern) F. White	OM&MvdB59 (JRAU)	1	1		0	0	0
<i>Diplorhynchus condylocarpon</i> (Müll. Arg.) Pichon	OM2073 (JRAU)	1	1		0	0	0
<i>Discoglypsemna caloneura</i> (Pax) Prain	Philippe 050	1	1		0	0	0
<i>Discopodium eremanthum</i> Chiov.	JKM904 (EAH)	1	1	0.48	0	1	0

<i>Dissotis princeps</i> (Kunth) Triana	OM3806 (JRAU)	1	1		0	0	0
<i>Distephanus divaricatus</i> (Steetz) H. Rob. & B. Kahn	OM2758 (JRAU)	1	1		0	0	1
<i>Dodonaea angustifolia</i> L. f.	OM2129 (JRAU)	1	1	0.59	1	0	0
<i>Dodonaea viscosa</i> Jacq.	JKM&AMM522 (EAH)	1	1		1	0	1
<i>Dolichandrone alba</i> (Sim) Sprague	OM3921B	1	1		0	0	0
<i>Dolichos sericeus</i> E. Mey.	JKM&AMM555 (EAH)	1	0	0.48	1	0	0
<i>Dombeya acutangula</i> Cav.	OM3491	1	1		0	0	1
<i>Dombeya autumnalis</i> I. Verd.	OM2004 (JRAU)	1	1		0	0	0
<i>Dombeya burgessiae</i> Gerrard ex Harv.	OM1537 (JRAU)	1	1		1	1	0
<i>Dombeya cymosa</i> Harv.	OM1507 (JRAU)	1	1	0.5	0	0	1
<i>Dombeya kirkii</i> Mast.	OM2561	1	1	0.51	1	0	0
<i>Dombeya mupangae</i> K. Schum.	OM3834	1	1		0	0	1
<i>Dombeya rotundifolia</i> (Hochst.) Planch.	JKM&AMM580 (EAH)	1	1		1	1	0
<i>Dombeya tiliacea</i> (Endl.) Planch.	Abbott9252 (BNRH)	1	1		0	0	1
<i>Dovyalis abyssinica</i> (A. Rich.) Warb.	JKM&AMM428 (EAH)	0	1	0.48	1	0	0
<i>Dovyalis caffra</i> (Hook. f. & Harv.) Hook. f.	RBN286 (KNP)	1	1		0	0	0
<i>Dovyalis hispidula</i> Wild	OM2581 (JRAU)	1	0	0.46	0	0	1
<i>Dovyalis longispina</i> (Harv.) Warb.	OM2602 (JRAU)	1	1		0	0	0
<i>Dovyalis lucida</i> Sim	Abbott9221 (BNRH)	1	1		0	0	0
<i>Dovyalis rhamnoides</i> (Burch. ex DC.) Burch. & Harv.	Chase271 (NCU)	1	1		0	0	0
<i>Dovyalis xanthocarpa</i> Bullock	OM2442 (JRAU)	1	1		0	0	0
<i>Dracaena aletiformis</i> (Haw.) Bos	Abbott9145 (BNRH)	1	1	2.06	0	0	1
<i>Dracaena ellenbeckiana</i> Engl.	DrellGeban	1	1		1	1	0
<i>Dracaena fragrans</i> (L.) Ker Gawl.	Order00458	1	1		0	1	1

<i>Dracaena laxissima</i> Engl.	PM5556	1	1		1	1	1
<i>Dracaena mannii</i> Baker	OM1828 (JRAU)	1	1		0	0	1
<i>Dracaena steudneri</i> Engl.	OM4009	1	1		1	1	1
<i>Dracaena transvaalensis</i> Baker	OM2008 (JRAU)	1	1		0	0	0
<i>Drypetes arguta</i> (Müll. Arg.) Hutch.	Abbott9149 (BNRH)	1	1	2.23	0	0	1
<i>Drypetes gerrardii</i> Hutch.	OM1840 (JRAU)	1	1		1	0	0
<i>Drypetes ivorensis</i> Hutch. & Dalziel	PM4907	1	0		0	0	0
<i>Drypetes laciniata</i> (Pax) Hutch.	PM4884	1	0		0	0	0
<i>Drypetes mossambicensis</i> Hutch.	RBN175	1	0		0	0	0
<i>Drypetes natalensis</i> (Harv.) Hutch.	OM2651	1	0		0	0	1
<i>Drypetes principum</i> (Müll. Arg.) Hutch.	PM5158	1	1		0	0	0
<i>Drypetes reticulata</i> Pax	RBN270 (KNP)	1	1		0	0	1
<i>Drypetes staudtii</i> (Pax) Hutch.	PM4836	1	1		0	0	0
<i>Duranta erecta</i> L.	JKM434 (EAH)	1	1	2.89	0	1	0
<i>Dyschoriste keniensis</i> Malombe, Mwachala & Vollesen	JKM&AMM437 (EAH)	1	1	2.26	1	0	0
<i>Ecpoma gigantistipula</i> (K.Schum.)N.Hallé	PM5082	1	1		0	0	0
<i>Ehretia amoena</i> Klotzsch	OM2533 (JRAU)	1	1		0	0	1
<i>Ehretia cymosa</i> Thonn.	EhcymGeban	1	0	0.49	0	1	0
<i>Ehretia rigida</i> (Thunb.) Druce	OM0396 (JRAU)	1	1		0	0	1
<i>Ekebergia pterophylla</i> (C.DC.) Hofmeyr	OM3263 (JRAU)	1	1		0	0	0
<i>Elaeis guineensis</i> Jacq.	Elgui1924	1	0		0	0	0
<i>Elaeodendron aquifolium</i> (Fiori) Chiov.	JKM950 (EAH)	1	1		1	0	1
<i>Elaeodendron croceum</i> (Thunb.) DC.	Abbott9197 (BNRH)	1	1		0	0	0
<i>Elaeodendron matabelicum</i> Loes.	Archer s.n. (PRE)	0	1		0	0	0
<i>Elaeodendron transvaalense</i> (Burt Davy) R. H. Archer	OM1229 (JRAU)	1	1		0	0	1
<i>Elephantorrhiza burkei</i> Benth.	OM1945 (JRAU)	1	1		0	0	0
<i>Elephantorrhiza elephantina</i> (Burch.) Skeels	OM0483 (JRAU)	1	1		0	0	0

<i>Elephantorrhiza goetzei</i> (Harms) Harms	OM1207 (JRAU)	1	1		0	0	0
	McClelland828						
<i>Elephantorrhiza obliqua</i> Burt Davy	(BNRH)	0	1		0	0	0
<i>Ellipanthus madagascariensis</i> (G. Schellenb.)	McClelland882						
Capuron ex Keraudren	(BNRH)	1	1	1.52	0	0	1
<i>Embelia xylocarpa</i> P. Halliday	OM2653 (JRAU)	1	1		0	0	0
	DGE129-26.03.2011						
<i>Empleurum unicusculare</i> (L. f.) Skeels	(JRAU)	1	1		0	0	0
<i>Empogona cacondensis</i> (Hiern) Tosh & Robbr.	Burrows13364	1	1		0	0	0
<i>Empogona coriacea</i> (Sond.) Tosh & Robbr.	OM3281 (JRAU)	1	1	0.48	0	0	1
<i>Empogona kirkii</i> subsp. <i>junodii</i> (Schinz) Tosh & Robbr.	OM1601 (JRAU)	1	1		0	0	0
<i>Empogona lanceolata</i> (Sond.) Tosh & Robbr.	MWC24261 (K)	1	1		0	0	0
<i>Empogona ovalifolia</i> (Hiern) Tosh & Robbr.	Emova8356	0	1	0.48	0	0	1
<i>Encephalartos aemulans</i> Vorster	PR861 (JRAU)	1	1		0	0	0
<i>Encephalartos altensteinii</i> Lehm.	PR668 (JRAU)	1	1		0	0	0
<i>Encephalartos arenarius</i> R. A. Dyer	PR854 (JRAU)	1	1		0	0	0
<i>Encephalartos brevifoliolatus</i> Vorster	Xdk2 (JRAU)	1	1		0	0	0
<i>Encephalartos bubalinus</i> Melville	Enbub4255	1	1		0	0	0
<i>Encephalartos chimanimaniensis</i> R. A. Dyer & I. Verd.	PR888 (JRAU)	1	1		0	0	0
<i>Encephalartos concinnus</i> R. A. Dyer & I. Verd.	PR890 (JRAU)	1	1		0	0	0
<i>Encephalartos cupidus</i> R. A. Dyer	PR691 (JRAU)	1	1		0	0	0
<i>Encephalartos dolomiticus</i> Lavranos & D. L. Goode	PR865 (JRAU)	1	1		0	0	0
<i>Encephalartos dyerianus</i> Lavranos & D. L. Goode	PR731 (JRAU)	1	1		0	0	0
<i>Encephalartos eugene-maraisii</i> I. Verd.	PR872 (JRAU)	1	1		0	0	0
<i>Encephalartos ferox</i> G. Bertol.	PR844 (JRAU)	1	1	0.44	0	0	1
<i>Encephalartos friderici-guilielmi</i> Lehm.	PR853 (JRAU)	1	1		0	0	0
<i>Encephalartos ghellinckii</i> Lem.	PR773 (JRAU)	1	1		0	0	0

<i>Encephalartos heenanii</i> R. A. Dyer	PR775 (JRAU)	1	1		0	0	0
<i>Encephalartos hirsutus</i> P.J.H. Hurter	PR718 (JRAU)	1	1		0	0	0
<i>Encephalartos inopinus</i> R. A. Dyer	PR864 (JRAU)	1	1		0	0	0
<i>Encephalartos kisanbo</i> Faden & Beentje	Enkis700 (EAH)	1	1	0.48	0	0	1
<i>Encephalartos laevifolius</i> Stapf & Burt Davy	PR845 (JRAU)	1	1		0	0	0
<i>Encephalartos lanatus</i> Stapf & Burt Davy	PR828 (JRAU)	1	1		0	0	0
<i>Encephalartos latifrons</i> Lehm.	PR811 (JRAU)	1	1		0	0	0
<i>Encephalartos lehmannii</i> Lehm.	PR780 (JRAU)	1	1		0	0	0
<i>Encephalartos longifolius</i> (Jacq.) Lehm.	PR873 (JRAU)	1	1		0	0	0
<i>Encephalartos manikensis</i> (Gilliland) Gilliland	PR903 (JRAU)	1	1		0	0	0
<i>Encephalartos middelburgensis</i> Vorster, Robbertse & S. van der Westh.	PR726 (JRAU)	1	1		0	0	0
<i>Encephalartos msinganus</i> Vorster	PR701 (JRAU)	1	1		0	0	0
<i>Encephalartos natalensis</i> R. A. Dyer & I. Verd.	PR802 (JRAU)	1	1	0.45	0	0	1
<i>Encephalartos nubimontanus</i> P.J.H. Hurter	PR704 (JRAU)	1	1		0	0	0
<i>Encephalartos paucidentatus</i> Stapf & Burt Davy	PR849 (JRAU)	1	1		0	0	0
<i>Encephalartos princeps</i> R. A. Dyer	PR871 (JRAU)	1	1		0	0	0
<i>Encephalartos relictus</i> P.J.H. Hurter	PR732 (JRAU)	1	1		0	0	0
<i>Encephalartos senticosus</i> Vorster	PR833 (JRAU)	1	1		0	0	0
<i>Encephalartos tegulaneus</i> Melville	PR825 (JRAU)	1	1		1	0	0
<i>Encephalartos transvenosus</i> Stapf & Burt Davy	PR832 (JRAU)	1	1		0	0	0
<i>Encephalartos villosus</i> Lem.	PR838 (JRAU)	1	1		0	0	0
<i>Encephalartos woodii</i> Sander	PR875 (JRAU)	1	1		0	0	0
<i>Encephalartos lebomboensis</i> Verd.	PR831 (JRAU)	1	1		0	0	0
<i>Endodesmia calophylloides</i> Benth.	PM5040	1	0		0	0	0
<i>Endostemon camporum</i> (Gürke) M. Ashby	JKM&AMM474 (EAH)	0	1		0	0	0
<i>Englerodaphne ovalifolia</i> (Meisn.) E. Phillips	Abbott9108 (BNRH)	1	1		0	0	0

<i>Englerodaphne pilosa</i> Burt Davy	OM1893 (JRAU)	1	1		0	0	0
<i>Englerophytum magalismontanum</i> (Sond.) T. D. Penn.	MvdB18 (JRAU)	1	1		0	0	0
	JKM&AMM643						
<i>Englerophytum natalense</i> (Sond.) T. D. Penn.	(EAH)	0	0		0	0	1
<i>Ensete ventricosum</i> (Welw.) Cheesman	CS02 (JRAU)	1	1	1.59	1	0	0
<i>Entada abyssinica</i> Steud. ex A. Rich.	OM2316 (JRAU)	1	1	0.47	1	0	0
	JKM&AMM 431						
<i>Entada leptostachya</i> Harms	(EAH)	1	1	0.48	1	0	0
<i>Entada rheedei</i> Spreng.	OM2417 (JRAU)	1	1		0	0	1
<i>Entada wahlbergia</i> Harv.	OM2586 (JRAU)	1	1		0	0	0
<i>Entandrophragma caudatum</i> (Sprague) Sprague	OM1342 (JRAU)	1	1		0	0	0
<i>Erica areolata</i> (N.E. Br.) E.G.H. Oliv.	CM.710.17	1	1		0	0	0
<i>Erica articularis</i> L.	EFG.706.19	1	1		0	0	0
<i>Erica brachialis</i> Salisb.	CC.626.16	1	1		0	0	0
<i>Erica caffra</i> L.	OM2307 (JRAU)	1	1		0	0	1
<i>Erica calycina</i> L.	HKM.706.24	1	1		0	0	0
<i>Erica cerinthoides</i> L.	CM.705.6	1	1		0	0	0
<i>Erica coccinea</i> L.	OM3115	1	1		0	0	0
<i>Erica cordata</i> Andrews	EFG.703.5	1	0		0	0	0
<i>Erica corifolia</i> L.	JS.619.28	1	1		0	0	0
<i>Erica curvifolia</i> Salisb.	TEM.622.1	1	1		0	0	0
<i>Erica daphniflora</i> Salisb.	JL.802.7	1	1		0	0	0
<i>Erica equisetifolia</i> Salisb.	TEM.622.29	1	0		0	0	0
<i>Erica ericoides</i> (L.) E.G.H. Oliv.	CC.627.24	0	1		0	0	0
<i>Erica fascicularis</i> L. f.	CC.621.27	1	1		0	0	0
<i>Erica gracilis</i> J. C. Wendl.	JAS.709.1	1	0		0	0	0
<i>Erica grata</i> Guthrie & Bolus	EFG.708.7	1	0		0	0	0
<i>Erica hispidula</i> L.	CM.702.35	1	1		0	0	0

<i>Erica infundibuliformis</i> Andrews	CM.702.21	1	1	0	0	0
<i>Erica labialis</i> Salisb.	HKM.620.23	1	0	0	0	0
<i>Erica madida</i> E.G.H. Oliv.	HKM.711.28	1	0	0	0	0
<i>Erica massonii</i> L. f.	HKM.628.13	1	1	0	0	0
<i>Erica melanthera</i> L.	HKM.703.24	1	1	0	0	0
<i>Erica muscosa</i> (Aiton) E.G.H. Oliv.	CM.620.35	1	1	0	0	0
<i>Erica natalitia</i> Bolus var. <i>natalitia</i>	Abbott9208 (BNRH)	1	1	0	0	1
<i>Erica nudiflora</i> L.	TEM.704.2	1	1	0	0	0
<i>Erica pectinifolia</i> Salisb.	DGE078-26.03.2011	1	1	0	0	0
<i>Erica penicilliformis</i> Salisb.	EFG.703.6	1	0	0	0	0
<i>Erica placentiflora</i> Salisb.	ET.625.3	1	0	0	0	0
<i>Erica plukenetii</i> L.	CM.705.4	1	0	0	0	0
<i>Erica plumosa</i> Thunb.	SM.731.9	1	0	0	0	0
<i>Erica rigidula</i> (N.E. Br.) E.G.H. Oliv.	HKM.628.11	1	1	0	0	0
<i>Erica rosacea</i> (L. Guthrie) E.G.H. Oliv.	CM.705.13	1	0	0	0	0
<i>Erica serrata</i> Thunb.	CC.621.43	1	0	0	0	0
<i>Erica similis</i> (N.E. Br.) E.G.H. Oliv.	CM.702.22	1	0	0	0	0
<i>Erica sitiens</i> Klotzsch	CC.627.23	1	1	0	0	0
<i>Erica squarrosa</i> Salisb.	HKM.628.10	1	1	0	0	0
<i>Erica triceps</i> Link	CM.710.26	1	0	0	0	0
<i>Erica triflora</i> L.	MWC23115 (K)	0	1	0	0	0
<i>Erica verecunda</i> Salisb.	EFG.726.20	1	0	0	0	0
<i>Erica versicolor</i> Andrews	TEM.704.22	1	1	0	0	0
<i>Erica vestita</i> Thunb.	EFG.708.18	1	1	0	0	0
<i>Erica viscaria</i> L.	HKM.628.4	1	0	0	0	0
<i>Eriosema psoraleoides</i> (Lam.) G Don	OM3284	1	1	0	0	0
<i>Eriosemopsis subanisiphylla</i> Robyns	Burrows12318 (BNRH)	1	1	0	0	0
<i>Erismadelphus exsul</i> Mildbr.	PM5133	1	1	0	0	0

<i>Erythrina abyssinica</i> Lam. ex DC.	OM2095 (JRAU)	1	1		1	0	1
<i>Erythrina acanthocarpa</i> E. Mey.	OM3916B (JRAU)	0	1		0	0	1
<i>Erythrina baumii</i> Harms	Burrows13412	1	0		0	0	0
<i>Erythrina caffra</i> Thunb.	BS0057 (JRAU)	1	1	0.49	0	0	1
<i>Erythrina humeana</i> Spreng.	OM0741 (JRAU)	1	1	0.48	0	0	1
<i>Erythrina latissima</i> E. Mey.	OM1428	1	0		0	0	1
<i>Erythrina livingstoniana</i> Baker	OM2354 (JRAU)	1	1		0	0	1
<i>Erythrina lysistemon</i> Hutch.	RBN329 (KNP)	1	1		0	1	0
<i>Erythrina madagascariensis</i> Du Puy & Labat	Burrows11364	1	0		0	0	0
<i>Erythrina melanacantha</i> Taub. ex Harms	JKM&AMM614 (EAH)	1	1	0.49	1	0	0
<i>Erythrina saclexii</i> Hua	Burrows09221b	0	1	0.48	0	0	1
<i>Erythrina zeyheri</i> Harv.	OM1589 (JRAU)	1	1		0	0	0
<i>Erythrocephalum marginatum</i> (O. Hoffm.) S. Ortiz & Cout.	JKM&AMM594 (EAH)	0	1	4.01	0	0	1
<i>Erythrococca berberidea</i> Prain	OM3784	1	1	0.47	0	0	1
<i>Erythrococca fischeri</i> Pax	Erfis1648	1	1		0	0	0
<i>Erythrococca menyharthii</i> (Pax) Prain	OM2431 (JRAU)	1	1		0	0	0
<i>Erythrococca pubescens</i> Radcl.-Sm.	Erpub6191	1	1	0.49	0	0	1
<i>Erythrococca</i> sp nov	Abbott9148 (BNRH)	1	1		0	0	0
<i>Erythrophleum africanum</i> (Welw. ex Benth.) Harms	OM2537 (JRAU)	1	1		0	0	1
<i>Erythrophleum ivorense</i> A. Chev.	PM4854	1	1		0	0	0
<i>Erythrophleum suaveolens</i> (Guill. & Perr.) Brenan	OM2674 (JRAU)	1	1		0	0	0
<i>Erythrophysa alata</i> (Eckl. & Zeyh.) Hutch.	MWC02870	1	1		0	0	0
<i>Erythroxylum delagoense</i> Schinz	OM1499 (JRAU)	1	1	0.49	0	0	1
<i>Erythroxylum emarginatum</i> Thonn.	OM1545 (JRAU)	1	1		0	0	1
<i>Erythroxylum pictum</i> E. Mey. ex Sond.	Abbott9129 (BNRH)	1	1		0	0	1
<i>Erythroxylum zambesiaceum</i> N. Robson	Burrows13386	1	0		0	0	0

<i>Euclea coriacea</i> A. DC.	MWC22169 (K)	1	1		0	0	0
<i>Euclea crispa</i> (Thunb.) Gürke	OM2254 (JRAU)	1	1		0	0	0
<i>Euclea daphnoides</i> Hiern	OM1381 (JRAU)	1	1		0	0	1
<i>Euclea divinorum</i> Hiern	JKM&AMM440 (EAH)	1	1		1	1	0
<i>Euclea natalensis</i> A. DC. ssp. <i>natalensis</i>	OM0936 (JRAU)	1	1	0.85	0	0	1
<i>Euclea natalensis</i> ssp. <i>rotundifolia</i> F. White	OM3606 (BNRH)	1	1	1.21	0	0	1
<i>Euclea natalensis</i> subsp. <i>angustifolia</i> F. White	RBN287 (KNP)	1	1		0	0	0
<i>Euclea natalensis</i> subsp. <i>obovata</i> F. White	OM2658 (JRAU)	1	1	0.46	0	0	1
<i>Euclea pseudebenus</i> E. Mey.	MWC21190 (K)	1	1		0	0	0
<i>Euclea racemosa</i> L. subsp. <i>racemosa</i>	OM1538 (JRAU)	1	1		0	0	1
<i>Euclea undulata</i> Thunb.	OM1572 (JRAU)	1	1		0	0	1
<i>Euclinia longiflora</i> Salisb.	PM4903	1	1		0	0	0
<i>Eugenia albanensis</i> Sond.	Burrows7021 (BNRH)	1	1		0	0	0
<i>Eugenia capensis</i> (Eckl. & Zeyh.) Harv.	Burrows12289 (BNRH)	1	1		0	0	0
<i>Eugenia erythrophylla</i> Strey	Abbott9121 (BNRH)	1	1		0	0	0
<i>Eugenia natalitia</i> Sond.	OM2699 (JRAU)	1	1		0	0	0
<i>Eugenia</i> sp. nov. C	Abbott9151 (BNRH)	1	1		0	0	0
<i>Eugenia talbotii</i> Keay	PM5037	1	1		0	0	0
<i>Eugenia umtamvunensis</i> A.E.van Wyk	Abbott9120 (BNRH)	1	1		0	0	0
<i>Eugenia uniflora</i> L	PGW1335 (NSW)	0	1		0	0	0
<i>Eugenia woodii</i> Dummer	OM1795 (JRAU)	1	1		0	0	0
<i>Eugenia zuluensis</i> Dummer	Abbott9188 (BNRH)	1	1		0	0	0
<i>Eumorphia davyi</i> Bolus	Magee307	1	1		0	0	0
<i>Euphorbia bicompecta</i> Bruyns	JKM472 (EAH)	1	0	0.49	1	0	0
<i>Euphorbia bussei</i> Pax	EubusGeban	1	0	0.49	1	0	0
<i>Euphorbia cooperi</i> N.E. Br. ex A. Berger	OM1464 (JRAU)	1	1		0	0	1

<i>Euphorbia cupularis</i> Boiss.	Sycup1511	1	1		0	0	1
<i>Euphorbia espinosa</i> Pax	RBN189 (KNP)	1	1		0	0	0
<i>Euphorbia guerichiana</i> Pax	OM0894 (JRAU)	1	1		0	0	0
<i>Euphorbia jatrophioides</i> Pax	JKM936 (EAH)	1	1	0.5	1	0	0
<i>Euphorbia kirkii</i> (N.E. Br.) Bruyns	Sykir2556	1	1		0	0	0
<i>Euphorbia rowlandii</i> R.A. Dyer	RBN263 (KNP)	1	1	1.49	1	0	0
<i>Euphorbia</i> sp.	JKM&AMM560 (EAH)	1	0		1	0	0
<i>Euphorbia tirucalli</i> L.	OM0569 (JRAU)	0	1		1	0	1
<i>Euphorbia triangularis</i> Desf.	Abbott9222 (BNRH)	1	1	1.49	0	0	1
<i>Euphorbia tripartita</i> S. Carter (non Pax)	JKM641 (EAH)	0	1	0.5	1	0	0
<i>Excoecaria bussei</i> (Pax) Pax	OM2385 (JRAU)	1	1	0.51	1	0	0
<i>Excoecaria simii</i> (Kuntze) Pax	Abbott9211 (BNRH)	1	1	1.03	0	0	1
<i>Fadogia homblei</i> De Wild.	Burrows07120	1	1		0	0	0
<i>Fadogia tetraquetra</i> K. Krause	OM3266 (JRAU)	1	1		0	0	0
<i>Fadogia triphylla</i> Baker	Burrows6809 (BNRH)	1	1		0	0	0
<i>Fadogiella rogersii</i> (Wernham) Bridson	Burrows9578 (BNRH)	1	0		0	0	0
<i>Fadogiella stigmatoloba</i> (K. Schum.) Robyns	Burrows9579 (BNRH)	1	1		0	0	0
<i>Faidherbia albida</i> (Delile) A. Chev.	RBN165 (KNP)	1	1	7.15	1	0	0
<i>Faurea galpinii</i> E. Phillips	OM1818 (JRAU)	1	1		0	0	0
<i>Faurea macnaughtonii</i> E. Phillips	Abbott9123 (BNRH)	1	1		0	0	0
<i>Faurea rochetiana</i> (A.Rich.) Pic.Serm.	OM1461 (JRAU)	1	1		1	1	0
<i>Faurea rubriflora</i> Marner	OM4004	1	1		0	0	0
<i>Faurea saligna</i> Harv.	JKM557 (EAH)	1	1		0	0	0
<i>Feretia apodanthera</i> Delile	Feapo8353	0	0		1	0	1
<i>Fernandoa magnifica</i> Seem.	OM2336 (JRAU)	1	1	2.99	0	0	1
<i>Ficus abutilifolia</i> (Miq.) Miq	OM0280 (JRAU)	1	1		0	0	0

<i>Ficus bizanae</i> Hutch. & Burtt Davy	Abbott9218 (BNRH)	1	1		0	0	1
<i>Ficus burkei</i> (Miq.) Miq	OM0972 (JRAU)	1	1		1	1	1
<i>Ficus burt davyi</i> Hutch	MWC20234 (K)	0	1	0.5	0	0	1
<i>Ficus bussei</i> Warb. ex Mildbr. & Burret	OM2444 (JRAU)	1	1		0	0	0
<i>Ficus capreifolia</i> Delile	OM2566 (JRAU)	1	1	1.01	1	0	0
<i>Ficus cordata</i> Thunb. subsp. <i>cordata</i>	Ficor2005	1	1		0	0	0
<i>Ficus craterostoma</i> Warb. ex Mildbr. & Burret	Abbott9168 (BNRH)	1	1	3.56	0	0	1
<i>Ficus exasperata</i> Vahl	OM4016	1	1	0.49	1	0	0
<i>Ficus glumosa</i> Delile	OM0564 (JRAU)	0	1		1	0	1
<i>Ficus ilicina</i> (Sond.) Miq.	MWC20240 (K)	1	1		0	0	1
<i>Ficus ingens</i> (Miq.) Miq.	OM0593 (JRAU)	1	1		1	0	1
<i>Ficus mucoso</i> Welw. ex Ficalho	Burrows11659	1	1		1	0	0
<i>Ficus natalensis</i> Hochst.	OM2229 (JRAU)	1	1		1	0	1
<i>Ficus palmata</i> Forssk.	JKM&AMM664 (EAH)	1	0		1	1	0
<i>Ficus petersii</i> Warb.	RL1487 (JRAU)	1	1		1	1	1
<i>Ficus polita</i> Vahl	OM1823 (JRAU)	1	1		1	0	1
<i>Ficus pygmaea</i> Welw. ex Hiern	MWC20237 (K)	1	1		0	0	0
<i>Ficus rokko</i> Warb. & Schweinf	OM2249 (JRAU)	0	1		1	1	1
<i>Ficus salicifolia</i> Vahl	OM2005 (JRAU)	1	1		0	0	1
<i>Ficus sansibarica</i> Warb.	OM2752 (JRAU)	1	1		0	0	0
<i>Ficus sansibarica</i> Warb.	OM0749 (JRAU)	1	1		0	0	0
<i>Ficus sur</i> Forssk.	OM1556 (JRAU)	1	1		1	1	1
<i>Ficus sycomorus</i> L.	JKM&AMM423 (EAH)	1	1		1	1	1
<i>Ficus sycomorus</i> subsp. <i>gnaphalocarpa</i> (Miq.) C. C. Berg	OM4151	1	0		1	1	1
<i>Ficus tettensis</i> Hutch.	RBN265 (KNP)	1	1		0	0	0
<i>Ficus tremula</i> Warb. subsp. <i>tremula</i>	OM2738 (JRAU)	1	1		0	0	0

<i>Ficus trichopoda</i> Baker	OM1817 (JRAU)	1	1		0	0	0
	JKM&AMM532						
<i>Filicium decipiens</i> (Wight & Arn.) Thwaites	(EAH)	0	1		0	1	1
<i>Flacourtia indica</i> (Burm. f.) Merr.	RL1216 (JRAU)	1	1		1	1	1
<i>Flagellaria guineensis</i> Schumach.	OM2551	1	1	55.8	0	0	1
	JKM&AMM405						
<i>Flueggea virosa</i> (Willd.) Voigt	(EAH)	1	1		0	0	0
<i>Fockea comaru</i> (E. Mey.) N.E. Br.	MWC3854	1	1		0	0	0
<i>Fockea edulis</i> (Thunb.) K. Schum.	OM2946	1	1	0.49	0	0	1
<i>Fockea multiflora</i> K. Schum.	MWC03853 (K)	1	1		0	0	0
<i>Freylinia lanceolata</i> (L. f.) G. Don	OM2306 (JRAU)	1	1		0	0	0
<i>Funtumia africana</i> (Benth.) Stapf	LeymanS3855 (BR)	0	1		0	0	0
<i>Gaertnera bieleri</i> (De Wild.) E.M.A. Petit	PM5128	1	1		0	0	0
<i>Galiniera saxifraga</i> (Hochst.) Bridson	JKM909 (EAH)	1	0		1	1	0
<i>Galpinia transvaalica</i> N.E. Br.	OM0319 (JRAU)	1	1	70.6	0	0	1
<i>Garcinia acutifolia</i> N. Robson	Burrows11371	1	1		0	0	0
<i>Garcinia conrauana</i> Engl.	Philippe 113	1	0		0	0	0
<i>Garcinia epunctata</i> Stapf	Philippe 051	1	1		0	0	0
<i>Garcinia gerrardii</i> Harv. ex Sim	OM2242 (JRAU)	0	1		0	0	1
<i>Garcinia gnetoides</i> Hutch. & Dalziel	PM5163	1	1		0	0	0
<i>Garcinia kola</i> Heckel	Philippe 063	1	0		0	0	0
<i>Garcinia livingstonei</i> T. Anderson	OM1189 (JRAU)	1	1		1	0	1
<i>Garcinia lucida</i> Vesque	Philippe 010	1	0		0	0	0
<i>Garcinia mannii</i> Oliv.	PM5192	1	0		0	0	0
<i>Garcinia ovalifolia</i> Oliv.	PM4852	0	0		0	0	0
<i>Garcinia punctata</i> Oliv.	Philippe 125	1	1		0	0	0
<i>Garcinia smeathmannii</i> (Planch. & Triana) Oliv.	Philippe 068	1	1		0	0	0
	JKM&AMM645						
<i>Garcinia volkensii</i> Engl.	(EAH)	1	0	8.91	1	0	0

<i>Gardenia cornuta</i> Hemsl.	OM2241 (JRAU)	1	1		0	0	0
<i>Gardenia fiorii</i> Chiov.	Gafio209	0	1		0	0	0
<i>Gardenia lutea</i> Fresen.	Gathu3222	1	1		0	0	0
<i>Gardenia posoquerioides</i> S.Moore	Gapos9552	1	1		0	0	0
<i>Gardenia resiniflua</i> Hiern	OM1272 (JRAU)	1	1		0	0	0
<i>Gardenia ternifolia</i> Schumach. & Thonn.	OM2356 (JRAU)	1	1		1	1	0
<i>Gardenia tinneae</i> Kotschy & Heuglin	Gasub12202	1	1		0	0	0
<i>Gardenia transvenulosa</i> Verdc.	Gatra9721	0	1		0	0	1
<i>Gardenia volkensii</i> K.Schum.	OM1966 (JRAU)	1	1		1	0	1
<i>Gerrardina foliosa</i> Oliv.	Abbott9228 (BNRH)	1	1	89.44	0	0	1
<i>Gigasiphon macrosiphon</i> (Harms) Brenan	JKM&AMM879 (EAH)	1	1	3.22	0	0	1
<i>Gilbertiodendron demonstrans</i> (Baill.) J. Léonard	PM5399	1	1		0	0	0
<i>Glenniea africana</i> (Radlk.) Leenh.	OM1857 (JRAU)	1	1		1	0	1
<i>Globulostylis minor</i> Wernham	CuwerGeban	1	0		0	0	0
<i>Glossocalyx longicuspis</i> Benth.	PM5268	1	1		0	0	0
<i>Gloveria integrifolia</i> (L. f.) Jordaan	MWC32835 (K)	1	1		0	0	0
<i>Glyphaea tomentosa</i> Mast.	OM2599 (JRAU)	1	1	1.73	0	0	1
<i>Gnidia latifolia</i> (Oliv.) Gilg	Gnlat7518	1	1		0	0	1
<i>Gonioma kamassi</i> E. Mey.	OM3158 (JRAU)	1	1		0	0	0
<i>Gossypium herbaceum</i> L.	YBK109 (JRAU)	1	1	1.44	1	0	0
<i>Grandidiera boivinii</i> Jaub.	Grboi243	1	0	0.85	0	0	1
<i>Grevea eggelingii</i> Milne-Redh.	JKM858 (EAH)	1	1	0.71	0	0	1
<i>Grewia apetala</i> Juss.	Grped6332	1	0	0.57	0	0	1
<i>Grewia bicolor</i> Juss.	RL1583 (JRAU)	1	1		1	1	0
<i>Grewia caffra</i> Meisn.	OM2329 (JRAU)	1	1	0.5	0	0	1
<i>Grewia calymmatosepala</i> K. Schum.	V68 (EAH)	1	1	0.56	0	0	1
<i>Grewia falcistipula</i> K. Schum.	Burrows13363	1	1		0	0	0

<i>Grewia flava</i> DC.	OM3297	1	0	0	0	1
<i>Grewia flavescens</i> Juss.	RL1365 (JRAU)	1	1	1	1	0
<i>Grewia forbesii</i> Harv. ex Mast.	JKM (EAH)	1	1	1	0	1
<i>Grewia glandulosa</i> Vahl	Grocc3228	1	1	0	0	1
<i>Grewia gonioclinia</i> K. Schum.	Grmic2448	1	1	1	0	1
<i>Grewia gracillima</i> Wild	OM0870 (JRAU)	1	1	0	0	1
<i>Grewia hexamita</i> Burret	OM0351 (JRAU)	1	1	0	0	0
<i>Grewia inaequilatera</i> Garcke	OM0872 (JRAU)	1	1	0	1	1
<i>Grewia kakothamnus</i> K. Schum.	Grkak99814	0	1	1.05	1	0
<i>Grewia lasiocarpa</i> E. Mey. ex Harv.	Abbott9236 (BNRH)	1	1	0	0	1
<i>Grewia lepidopetala</i> Garcke	OM2456 (JRAU)	1	1	1	0	0
<i>Grewia microcarpa</i> K. Schum.	OM2324 (JRAU)	1	1	0	0	1
<i>Grewia microthyrsa</i> K. Schum. ex Burret	OM1286 (JRAU)	1	1	0	0	1
<i>Grewia monticola</i> Sond.	RL1114 (JRAU)	1	1	1	1	0
<i>Grewia pondoensis</i> Burret	Abbott9105 (BNRH)	1	1	0	0	1
<i>Grewia similis</i> K.Schum.	Grsim97514	1	1	1	1	0
<i>Grewia sulcata</i> Mast.	RL1496 (JRAU)	1	1	4.72	0	0
<i>Grewia tephrodermis</i> K.Schum.	JKM477 (EAH)	1	1	3.59	1	0
<i>Grewia transzambesica</i> Wild	OM2628 (JRAU)	1	1	0.53	0	0
<i>Grewia vernicosa</i> Schinz	OM1999 (JRAU)	1	1	0	0	0
<i>Grewia villosa</i> Willd.	JKM453 (EAH)	1	1	1	0	1
<i>Greyia sutherlandii</i> Hook. & Harv.	OM&MvdB73 (JRAU)	1	1	0	0	1
<i>Guarea thompsonii</i> Sprague & Hutch.	PM5279	1	1	0	0	0
<i>Guettarda speciosa</i> L.	OM2491 (JRAU)	1	1	4.27	0	0
<i>Guibourtia coleosperma</i> (Benth.) J. Léonard	OM2116 (JRAU)	1	1	0	0	0
<i>Guibourtia conjugata</i> (Bolle) J. Léonard	OM1287 (JRAU)	1	1	0	0	1
<i>Guibourtia schliebenii</i> (Harms) J. Léonard	Burrows11308	1	0	0.96	0	0
<i>Guibourtia sousae</i> J. Léonard	Burrows10567	1	1	0.48	0	0

<i>Guilandina bonduc</i> L.	OM3615 (JRAU)	1	1		0	0	0
<i>Gymnanthemum auriculiferum</i> (Hiern) Isawumi	JKM,AMM&GM543 (EAH)	1	1	2.83	0	1	0
<i>Gymnosporia arenicola</i> Jordaan	OM4020	1	1	4.79	0	0	1
<i>Gymnosporia bachmannii</i> Loes.	Abbott9144 (BNRH)	1	1		0	1	1
<i>Gymnosporia buchananii</i> Loes.	PMMMYTB (EAH)	1	0	1	1	0	0
<i>Gymnosporia buxifolia</i> (L.) Szyszyl.	RL1397 (JRAU)	1	1		0	0	0
<i>Gymnosporia capitata</i> (E. Mey. ex Sond.) Loes.	vanWyk_551	1	1		0	0	0
<i>Gymnosporia devenishii</i> Jordaan	Abbott9244 (BNRH)	1	1		0	0	1
<i>Gymnosporia glaucophylla</i> Jordaan	Abbott9143	1	1	0.49	0	0	1
<i>Gymnosporia grandifolia</i> (Davison) Jordaan	Abbott9143	1	1		0	0	1
<i>Gymnosporia heterophylla</i> (Eckl. & Zeyh.) Loes.	OM0623 (JRAU)	1	1		1	1	0
<i>Gymnosporia maranguensis</i> (Loes.) Loes.	OM1637 (JRAU)	1	1		0	0	0
<i>Gymnosporia markwardii</i> Jordaan	OM3627	1	1	2.06	0	0	1
<i>Gymnosporia mossambicensis</i> (Klotzsch) Loes.	OM2633 (JRAU)	1	1		0	0	0
<i>Gymnosporia nemorosa</i> (Eckl. & Zeyh.) Szyszyl.	Abbott9187 (BNRH)	1	1		0	0	1
<i>Gymnosporia oxycarpa</i> (N. Robson) Jordaan	RBN282 (KNP)	1	1		0	0	0
<i>Gymnosporia polyacantha</i> Szyszyl.	OM2248 (JRAU)	1	1		0	0	1
<i>Gymnosporia polyacantha vacciniifolia</i> (P. Conrath) Jordaan	Hahn2933	1	1		0	0	0
<i>Gymnosporia pubescens</i> (N. Robson) Jordaan	OM1929 (JRAU)	1	1		0	0	1
<i>Gymnosporia putterlickioides</i> Loes.	JKM&AMM459 (EAH)	1	1	0.49	1	0	0
<i>Gymnosporia rubra</i> (Harv.) Loes.	OM4217	1	1	1.53	0	0	1
<i>Gymnosporia senegalensis</i> (Lam.) Loes.	JKM&AMM493 (EAH)	1	0		1	1	1
<i>Gymnosporia szyszylowiczii</i> (Kuntze) M.Jordaan	Vlok2618	1	1		0	0	0
<i>Gymnosporia tenuispina</i> (Sond.) Szyszyl.	NQ2 (JRAU)	0	1		0	0	1
<i>Gyrocarpus americanus</i> ssp. <i>africanus</i> Kubitzki	OM0874 (JRAU)	1	1	0.6	0	0	1
<i>Gyrocarpus hababensis</i> Chiov.	JKM&FHB4 (EAH)	1	1	0.6	1	0	0

<i>Haematoxylum</i> sp.	HaGeban	1	1		0	0	0
<i>Halleria lucida</i> L.	OM2269 (JRAU)	1	1		1	1	1
<i>Haplocoelum gallaense</i> (Engl.) Radlk.	OM1849 (JRAU)	1	1		0	0	0
<i>Harpephyllum caffrum</i> Bernh.	OM1555 (JRAU)	1	1	2.87	0	0	1
<i>Harrisonia abyssinica</i> Oliv.	JKM&AMM407 (EAH)	1	0		1	1	1
<i>Heeria argentea</i> (Thunb.) Meisn.	PG16 (JRAU)	1	1		0	0	0
<i>Heinsia crinita</i> (Afzel.) G. Taylor	RBN129 (KNP)	1	1		0	0	1
<i>Heisteria parvifolia</i> Sm.	Philippe 090	1	1		0	0	0
<i>Helichrysum glumaceum</i> DC.		1	0		1	1	0
<i>Helichrysum nudifolium</i> (L.) Less.	JKM&AMM625 (EAH)	1	1	0.49	0	1	0
<i>Helinus integrifolius</i> (Lam.) Kuntze	OM2430 (JRAU)	1	1		1	0	1
<i>Heritiera littoralis</i> Aiton	Alverson s.n. (WIS)	1	0	0.48	0	0	1
<i>Heteromorpha arborescens</i> Cham. & Schltdl.	OM2726 (JRAU)	1	1	0.57	0	1	0
<i>Heteromorpha arborescens</i> var. <i>abyssinica</i> (Hochst. ex A. Rich.) H. Wolff	JKM&AMM544 (EAH)	1	0		0	0	1
<i>Heteromorpha arborescens</i> var. <i>frutescens</i> P.J.D. Winter	OM1430 (JRAU)	1	1		0	0	0
<i>Heteromorpha involucrata</i> Conrath	Burrows13481	1	1		0	0	0
<i>Heteropyxis natalensis</i> Harv	OM1944 (JRAU)	1	1		0	0	1
<i>Heterosamara galpinii</i> (Hook. f.) Paiva	Burrows09560	1	1		0	0	0
<i>Heterotis canescens</i> (Graham) Jacq.-Fél.	Burrows12691 (BNRH)	1	1		0	0	0
<i>Hexalobus monopetalus</i> (A. Rich.) Engl. & Diels	OM1284 (JRAU)	1	1		0	0	1
<i>Heywoodia lucens</i> Sim	CS09 (JRAU)	1	1		0	0	0
<i>Hibiscus calyphyllus</i> Cav.	RBN108 (KNP)	1	1		1	1	0
<i>Hibiscus faulknerae</i> Vollesen	JKM&AMM870 (EAH)	1	0		1	0	1
<i>Hibiscus fuscus</i> Garcke	JKM&AMM550 (EAH)	1	1		0	0	0

<i>Hibiscus micranthus</i> L.f	OM1608 (JRAU)	1	1		1	1	1
<i>Hibiscus tiliaceus</i> f. albiflorus (O.Deg. & Greenwell) H.St.John	OM2157 (JRAU)	1	1	0.48	0	0	1
<i>Hildebrandtia sepalosa</i> Rendle	JAL10	1	1	3.19	1	0	0
<i>Hippobromus pauciflorus</i> (L. f.) Radlk.	OM1996 (JRAU)	1	1		0	0	0
<i>Hippocratea crenata</i> (Klotzsch) K. Schum. & Loes.	OM2441 (JRAU)	1	1	0.49	0	0	1
<i>Hirtella zanzibarica</i> Oliv.	OM2649 (JRAU)	1	1	1.04	0	0	1
<i>Hoffmannanthus abbotianus</i> (O. Hoffm.) H. Rob., S.C. Keeley & Skvarla	Vebr154515	0	1	0.49	0	1	0
<i>Holarrhena pubescens</i> Wall. ex G. Don	OM2083 (JRAU)	1	1		0	0	1
<i>Homalium abdessammadii</i> Asch. & Schweinf.	OM3592	1	1		0	0	0
<i>Homalium africanum</i> (Hook. f.) Benth.	PM5432	1	1		0	0	0
<i>Homalium dentatum</i> (Harv.) Warb.	OM1420 (JRAU)	1	1		0	0	0
<i>Homalium letestui</i> Pellegr.	PM5485	1	1		0	0	0
<i>Homalium longistylum</i> Mast.	PM5109	1	1		0	0	1
<i>Homalium rufescens</i> Benth.	Abbott9215 (BNRH)	1	1		0	0	0
<i>Huberantha mossambicensis</i> (Vollesen)							
Chaowasku	JKM846 (EAH)	1	0	0.54	0	0	1
<i>Hugonia castaneifolia</i> Engl.	Hucas6206	1	1	0.47	0	0	1
<i>Hugonia</i> sp.	Hubus2364	1	1		0	0	1
<i>Hugonia orientalis</i> Engl.	RBN145 (KNP)	1	1		0	0	1
<i>Hunteria umbellata</i> (K. Schum.) Hallier f.	PM5259	1	1		0	0	0
<i>Hyaenanche globosa</i> (Gaertn.) Lamb. & Vahl	OM1873 (JRAU)	1	1		0	0	0
<i>Hymenaea verrucosa</i> Gaertn.	n.a / Herendeen11-XII-97-3 (US)	0	1	0.48	0	0	1
<i>Hymenocardia acida</i> Tul.	OM3558	1	0		0	0	1
<i>Hymenocardia ulmoides</i> Oliv.	OM2686 (JRAU)	1	1		0	0	1
<i>Hymenodictyon floribundum</i> (Hochst. & Steud.) B. L. Rob.	Anderson s.n. (GB)	1	1		0	1	0

<i>Hymenodictyon parvifolium</i> Oliv.	JKM&AMM433 (EAH)	0	1		1	0	1
<i>Hymenostegia afzelii</i> (Oliv.) Mackinder & Wieringa	PM4881	1	1		0	0	0
<i>Hymenostegia bakeriana</i> Hutch. & Dalziel	PM5107	1	1		0	0	0
<i>Hymenostegia klainei</i> Pierre ex Pellegr.	Philippe 108	1	1		0	0	0
<i>Hymenostegia ngounyensis</i> Pellegr.	Philippe 048	1	1		0	0	0
<i>Hyperacanthus amoenus</i> (Sims) Bridson	RBN320 (KNP)	1	1		0	0	0
<i>Hyperacanthus microphyllus</i> (K. Schum.) Bridson	OM3732	0	1	0.48	0	0	1
<i>Hypericum revolutum</i> Vahl	OM3994	1	0	1.74	0	1	0
<i>Hypericum roeperianum</i> G. W. Schimp. ex A. Rich.	OM3992	1	0	2.99	1	0	0
<i>Hyphaene coriacea</i> Gaertn.	OM2427 (JRAU)	1	1		0	0	1
<i>Hyphaene petersiana</i> Klotzsch ex Mart.	OM1296 (JRAU)	1	1		0	0	0
<i>Hypocalyptus sophoroides</i> (P.J. Bergius) Baill.	OM3051 (JRAU)	1	1		0	0	0
<i>Hypodaphnis zenkeri</i> (Engl.) Stapf	PM5264	1	0		0	0	0
<i>Icuria dunensis</i> Wieringa	Burrows11243	1	1	0.48	0	0	1
<i>Ilex mitis</i> (L.) Radlk.	OM3182	1	1		1	1	0
<i>Indigofera arrecta</i> A.Rich.	AMM3707	0	1		1	1	0
<i>Indigofera atriceps</i> Hook. f.	JKM&AMM527 (EAH)	1	1	0.95	0	1	0
<i>Indigofera binderi</i> auct.	JKM&AMM529 (EAH)	0	1	0.98	1	0	0
<i>Indigofera circinella</i> Baker f.	JKM&AMM506 (EAH)	0	1		0	0	0
<i>Indigofera cytisoides</i> (L.) L.	AMM5739 (BOL)	1	1		0	0	0
<i>Indigofera filifolia</i> Thunb.	Stirton13192 (BOL)	1	1		0	0	0
<i>Indigofera frutescens</i> L. f.	CS01 (JRAU)	1	1		0	0	1
<i>Indigofera fulgens</i> Baker	OM2382 (JRAU)	1	1		0	0	1
<i>Indigofera hofmanniana</i> Schinz	InsufGeban	0	1		0	0	0

<i>Indigofera lupatana</i> Baker f.	AMM&JKM7482 (EAH)	1	1		1	0	0
<i>Indigofera natalitia</i>	Abbott9172 (BNRH)	1	1		0	0	0
<i>Indigofera rhytidocarpa</i> Benth. ex Harv.	OM0669 (JRAU)	1	1		0	0	0
<i>Indigofera sanguinea</i> N.E. Br.	Burrows12693 (BNRH)	1	1		0	0	0
<i>Indigofera schimperi</i> Jaub. & Spach	JKM&AMM414 (EAH)	1	1		1	1	1
<i>Indigofera</i> sp.	JKM&AMM476 (EAH)	1	0		1	0	0
<i>Indigofera swaziensis</i> Bolus	JKM569 (EAH)	1	1	1.47	1	0	0
<i>Indigofera tanganyikensis</i> Baker f.	JKM507 (EAH)	0	1		1	0	0
<i>Indigofera tinctoria</i> var. <i>arcuata</i> J.B. Gillett	OM1933 (JRAU)	1	1		1	0	1
<i>Indigofera trita</i> L.f.	JKM&AMM412 (EAH)	1	1		1	1	1
<i>Indigofera vohemarensis</i> Baill.	JKM&AMM468 (EAH)	1	0		1	1	0
<i>Indigofera volkensii</i> Taub.	AMM,GM&JKM7481 (EAH)	1	0		1	1	0
<i>Inhambanella henriquesii</i> (Engl. & Warb.) Dubard	OM2760 (JRAU)	1	1		0	0	0
<i>Ipomoea cicatricosa</i> Baker	lpcic6967	0	1	1.05	1	0	0
<i>Ipomoea donaldsonii</i> Rendle	lpcdon6942	0	1	1.65	1	0	0
<i>Ipomoea fistulosa</i> Mart. ex Choisy	Abbott 25278 (FLAS)	1	1	2.33	0	0	1
<i>Ipomoea kituiensis</i> ssp. <i>massaiensis</i> (Pilg.) Verdc.	JKM&AMM430 (EAH)	0	1	0.51	1	0	0
<i>Ipomoea spathulata</i> Hallier f.	lpspaGenban	0	1	0.52	1	0	0
<i>Irvingia gabonensis</i> (Aubry-LeComte ex O'Rorke) Baill.	SIMAB011217	1	1		0	0	0
<i>Isobertlinia angolensis</i> (Welw. ex Benth.) Hoyle & Brenan	Burrows13467	1	1		0	0	0
<i>Isolona cauliflora</i> Verdc.	JKM859 (EAH)	1	1	0.49	0	0	1

<i>Isolona congolana</i> (De Wild. & T. Durand) Engl. & Diels	IscamGeban	1	1		0	0	0
<i>Isolona thonneri</i> (De Wild. & T. Durand) Engl. & Diels	PM5295	1	1		0	0	0
<i>Itea</i> sp.	ItGeban	0	1		0	0	0
<i>Ixora hippoperifera</i> Bremek.	PM5312	1	1		0	0	0
<i>Ixora narcissodora</i> K. Schum.	OM2673 (JRAU)	1	1		0	0	1
<i>Jasminum dichotomum</i> Vahl	Jadic24970	1	1		0	0	0
<i>Jasminum fluminense</i> Vell.	JKM&AMM525 (EAH)	0	1		1	1	1
<i>Jasminum multipartitum</i> Hochst.	OM0782 (JRAU)	1	1		0	0	0
<i>Jasminum quinquatum</i> Schinz	Turpin416 (BNRH)	1	1		0	0	0
<i>Jasminum stenolobum</i> Rolfe	RBN133 (KNP)	1	1		0	0	1
<i>Jatropha curcas</i> L.	Jacur00397	1	1		1	0	0
<i>Jollydora duparquetiana</i> (Baill.) Pierre	PM4839	1	1		0	0	0
<i>Jollydora glandulosa</i> G. Schellenb.	PM5006	1	1		0	0	0
<i>Jubaeopsis caffra</i> Becc.	Sikhakhane139 (NH)	1	1		0	0	1
<i>Julbernardia globiflora</i> (Benth.) Troupin	OM2517 (JRAU)	1	1		0	0	1
<i>Julbernardia paniculata</i> (Benth.) Troupin	OM4100	1	0		0	0	0
<i>Justicia aconitiflora</i> (A. Meeuse) Vollesen	OM1816 (JRAU)	1	1		0	0	0
<i>Justicia adhatodoides</i> (Nees) V.A.W.Graham	OM1759 (JRAU)	1	1		0	0	1
<i>Justicia campylostemon</i> (Nees) T. Anderson	OM2299 (JRAU)	1	1		0	0	1
<i>Justicia odora</i> (Forssk.) Lam.	Juodo99414	0	1		1	0	0
<i>Kanahia laniflora</i> (Forssk.) R.Br.	Kalan88714	0	1		1	1	1
<i>Karomia speciosa</i> (Hutch. & Corbishley) R. Fern.	OM0700 (JRAU)	1	1	0.5	0	0	1
<i>Karomia tettensis</i> (Klotzsch) R. Fern.	OM4174	1	1		0	0	0
<i>Keetia gueinzii</i> (Sond.) Bridson	Abbott9160 (BNRH)	1	1		1	1	0
<i>Keetia venosa</i> (Oliv.) Bridson	OM4115	1	0		0	0	0
<i>Khaya anthotheca</i> (Welw.) C.DC.	OM2604 (JRAU)	1	1		0	0	0

<i>Kigelia africana</i> (Lam.) Benth.	JKM&AMM425 (EAH)	0	1		1	1	1
<i>Kiggelaria africana</i> L.	OM2260 (JRAU)	1	1		0	0	0
<i>Kirkia acuminata</i> Oliv.	OM2720 (JRAU)	1	1		0	0	1
<i>Kirkia wilmsii</i> Engl.	RL1230 (JRAU)	1	1		0	0	0
<i>Klaineanthus gabonae</i> Pierre ex Prain	PM5243	1	1		0	0	0
<i>Kleinia squarrosa</i> Cufod.	AMM&JKM7517 (EAH)	1	1		1	1	1
<i>Kotschya africana</i> Endl.	KoafGenban	0	1		1	1	0
<i>Kraussia speciosa</i> Bullock	Krspe9026	0	1		0	0	0
<i>Kumara plicatilis</i> (L.) G. D. Rowley	Alpli193	1	1		0	0	0
<i>Laccodiscus ferrugineus</i> (Baker) Radlk.	PM4914	1	1		0	0	0
<i>Lachnostylis bilocularis</i> R.A. Dyer	Kurzweil 83/88 (K)	0	1		0	0	0
<i>Lagynias dryadum</i> (S. Moore) Robyns	OM0896 (JRAU)	1	1		0	0	0
<i>Lamprothamnus zanguebaricus</i> Hiern	Lazan8335	0	1	1.46	0	0	1
<i>Landolphia kirkii</i> Dyer	RBN295 (KNP)	1	1		0	0	1
<i>Lannea antiscorbutica</i> (Hiern) Engl.	Burrows12783	1	0		0	0	0
<i>Lannea discolor</i> (Sond.) Engl.	RL1235 (JRAU)	1	1		0	0	0
<i>Lannea edulis</i> (Sond.) Engl.	OM1991 (JRAU)	1	1		0	0	0
<i>Lannea schimperi</i> (Hochst. ex A. Rich.) Engl.	OM2521	1	1		1	1	0
<i>Lannea schweinfurthii</i> (Engl.) Engl.	JKM&AMM486 (EAH)	1	1		1	1	0
<i>Lantana camara</i> L.	Laca145315	0	1		1	1	1
<i>Lantana rugosa</i> Thunb.	OM0459 (JRAU)	1	1	0.52	0	1	0
<i>Lantana trifolia</i> L.	Latri05376	1	1		1	1	0
<i>Lantana viburnoides</i> (Forssk.) Vahl	Lavib47714	0	1		1	1	0
<i>Lasianthera africana</i> P. Beauv.	PM4988	1	1		0	0	0
<i>Lasianthus kilimandscharicus</i> K. Schum.	Lakil119	1	0	11.55	0	1	0
<i>Lasiodiscus marmoratus</i> C.H. Wright	Lamil868	1	1		0	0	0

<i>Lasiodiscus pervillei</i> Baill.	OM2345 (JRAU)	1	1		0	0	0
<i>Laurophyllus capensis</i> Thunb.	MWC28623 (K)	1	1		0	0	0
<i>Lawsonia inermis</i> L.	Laine7LJ01	0	1		1	0	0
<i>Lecaniodiscus fraxinifolius</i> Baker	OM2365 (JRAU)	1	1		0	0	0
<i>Lecomtedoxa klaineana</i> (Pierre ex Engl.) Dubard	PM4879	1	1		0	0	0
<i>Leea guineensis</i> G. Don	Legui8250	1	1		0	0	0
<i>Leonotis leonurus</i> (L.) R. Br.	LTM032 (JRAU)	1	1		0	1	0
	Callmander 627						
<i>Lepisanthes senegalensis</i> (Juss. ex Poir.) Leenh. (MO)		0	1		1	1	0
<i>Leptactina benguelensis</i> (Benth. & Hook. f.) R.D. Good	Burrows11158 (BNRH)	1	1		0	0	0
<i>Leptactina delagoensis</i> K. Schum.	OM1598 (JRAU)	1	1	0.49	0	0	1
<i>Leptactina epinyctios</i> Bullock ex Verdc.	Burrows13506	1	1		0	0	0
<i>Leptactina platyphylla</i> (Hiern) Wernham	Lep1a3064	0	1		0	0	1
<i>Leptaulus daphnoides</i> Benth.	PM5003	1	1		0	0	0
<i>Leptonychia echinocarpa</i> K.Schum.	PM5065	1	1		0	0	0
<i>Leptonychia pallida</i> K.Schum.	PM4956	1	1		0	0	0
<i>Leucadendron arcuatum</i> (Lam.) I. Williams	MWC28310	0	1		0	0	0
<i>Leucadendron argenteum</i> (L.) R. Br.	OM2263 (JRAU)	1	1		0	0	0
<i>Leucadendron brunioides</i> Meisn.	OM2851	1	1		0	0	0
<i>Leucadendron cinereum</i> (Sol. ex Aiton) R. Br.	MWC28387	1	1		0	0	0
<i>Leucadendron coniferum</i> (L.) Meisn.	OM2313 (JRAU)	1	1		0	0	0
<i>Leucadendron corymbosum</i> P.J. Bergius	OM3142	1	1		0	0	0
<i>Leucadendron dregei</i> E. Mey. ex Meisn.	DGE065-26.03.2011	1	1		0	0	0
<i>Leucadendron dubium</i> (Meisn.) E. Phillips & Hutch.	MWC28311	1	1		0	0	0
<i>Leucadendron elimense</i> E. Phillips	MWC28435	1	1		0	0	0
<i>Leucadendron floridum</i> R. Br.	MWC28333	1	1		0	0	0
<i>Leucadendron foedum</i> I. Williams	MWC28366	1	1		0	0	0

<i>Leucadendron galpinii</i> E. Phillips & Hutch.	MWC25211 (K)	1	1	0	0	0
<i>Leucadendron gandogerii</i> Schinz ex Gand.	CC.621.32	1	0	0	0	0
<i>Leucadendron glaberrimum</i> (Schltr.) Compton	MWC28314	1	1	0	0	0
<i>Leucadendron laureolum</i> (Lam.) Fourc.	CM.620.30	1	1	0	0	0
<i>Leucadendron levisanus</i> (L.) P.J. Bergius	MWC28368	1	1	0	0	0
<i>Leucadendron loranthifolium</i> (Salisb. ex Knight) I. Williams	MWC28388	1	1	0	0	0
<i>Leucadendron macowanii</i> E. Phillips	MWC28334 (K)	1	1	0	0	0
<i>Leucadendron microcephalum</i> (Gand.) Gand. & Schinz	OM2266	1	1	0	0	0
<i>Leucadendron nitidum</i> H. Buek ex Meisn.	MWC28313	1	1	0	0	0
<i>Leucadendron pubescens</i> R. Br.	MWC28389 (K)	1	1	0	0	0
<i>Leucadendron pubibracteolatum</i> I. Williams	MWC27988	1	1	0	0	0
<i>Leucadendron remotum</i> I. Williams	MWC28482	1	1	0	0	0
<i>Leucadendron rubrum</i> Burm. f.	PG63 (JRAU)	1	1	0	0	0
<i>Leucadendron salicifolium</i> (Salisb.) I. Williams	PG56 (JRAU)	1	1	0	0	0
<i>Leucadendron salignum</i> P.J. Bergius	CM.705.27	1	1	0	0	0
<i>Leucadendron spissifolium</i> (Salisb. ex Knight) I. Williams	EFG.703.3	1	1	0	0	0
<i>Leucadendron strobilinum</i> (L.) Druce	MWC28010 (K)	1	1	0	0	0
<i>Leucadendron tinctum</i> I. Williams	CM.710.4	1	1	0	0	0
<i>Leucadendron tradouwense</i> I. Williams	MWC28484	1	1	0	0	0
<i>Leucadendron uliginosum</i> R. Br.	MWC28467	0	1	0	0	0
<i>Leucadendron verticillatum</i> (Thunb.) Meisn.	MWC28369	1	1	0	0	0
<i>Leucadendron xanthoconus</i> (Kuntze) K. Schum.	MWC26713	1	1	0	0	0
<i>Leucosidea sericea</i> Eckl. & Zeyh.	OM&MvdB48 (JRAU)	1	1	0	0	0
<i>Leucospermum calligerum</i> (Salisb. ex Knight) Rourke	OM3152	1	1	0	0	0
<i>Leucospermum conocarpodendron</i> (L.) H. Buek	MWC27983 (K)	0	1	0	0	0

<i>Leucospermum conocarpodendron</i> subsp. <i>viridum</i> Rourke	OM3102 (JRAU)	1	1		0	0	0
<i>Leucospermum cuneiforme</i> (Burm. f.) Rourke	OM2267 (JRAU)	1	1		0	0	0
<i>Leucospermum gerrardii</i> Stapf	MWC26648 (K)	1	1		0	0	0
<i>Leucospermum hypophyllocarpodendron</i> (L.) Druce	OM2860	1	1		0	0	0
<i>Leucospermum mundii</i> Meisn.	EFG.708.20	1	0		0	0	0
<i>Leucospermum oleifolium</i> (P.J. Bergius) R. Br.	OM3082A	1	1		0	0	0
<i>Leucospermum rodolentum</i> (Salisb. ex Knight) Rourke	OM2812 (JRAU)	1	1		0	0	0
<i>Leucospermum saxosum</i> S. Moore	Burrows12687 (BNRH)	1	1		0	0	0
<i>Leucospermum tomentosum</i> (Thunb.) R. Br.	JWB511	1	1		0	0	0
<i>Liparia hirsuta</i> Thunb.	JWB020 (NH)	1	1		0	0	0
<i>Liparia myrtifolia</i> Thunb.	JWB039 (NH)	1	1		0	0	0
<i>Liparia racemosa</i> A.L. Schutte	JWB089	1	0		0	0	0
<i>Liparia rafnioides</i> A.L. Schutte	JWB033 (NH)	1	1		0	0	0
<i>Liparia vestita</i> Thunb.	JWB014	1	1		0	0	0
<i>Lippia javanica</i> (Burm. f.) Spreng.	RBN348 (KNP)	1	1		1	1	0
<i>Lopholaena coriifolia</i> (Sond.) E. Phillips & C. A. Sm.	OM&MvdB41 (JRAU)	1	1		0	0	0
<i>Lopholaena disticha</i> (N.E. Br.) S. Moore	OM3909 (BNRH)	1	1		0	0	1
<i>Lovoa swynnertonii</i> Baker f.	Loswy2860	1	0	0.69	0	1	0
<i>Loxostylis alata</i> A. Spreng. ex Rchb.	OM1827 (JRAU)	1	1		0	0	0
<i>Ludia mauritiana</i> J. F. Gmel.	JKM626 (EAH)	1	1		0	0	1
<i>Ludwigia octovalvis</i> (Jacq.) Raven	OM0213 (JRAU)	1	1		0	0	0
<i>Lumnitzera racemosa</i> Willd.	OM2478 (JRAU)	1	1	72.36	0	0	1
<i>Lycium afrum</i> L.	BS0140 (JRAU)	1	1		0	0	0
<i>Lycium cinereum</i> Thunb.	Gubb12801 (PRE)	1	1		0	0	1

	AMM,GM&JKM7631						
<i>Lycium europaeum</i> L.	4 (EAH)	1	1	0.93	1	0	0
<i>Lycium ferocissimum</i> Miers	OM2993 (JRAU)	1	1		0	0	0
<i>Lycium oxycarpum</i> Dunal	OM2936 (JRAU)	1	1		0	0	0
<i>Lycium schizocalyx</i> C. H. Wright	Gubb12489 (PRE)	0	1		0	0	0
	McDonald77/64						
<i>Lycium villosum</i> Schinz	(PRE)	0	1		0	0	0
<i>Lydenburgia abbottii</i> (A.E. van Wyk & M. Prins)							
Steenkamp	Abbott9242 (BNRH)	1	1		0	0	1
	Archer&Archer 2570						
<i>Lydenburgia cassinoides</i> N. Robson	(PRE)	1	1		0	0	0
<i>Macaranga capensis</i> (Baill.) Sim	OM2233	1	0		0	1	1
<i>Macaranga monandra</i> Müll. Arg.	PM4944	1	0		0	0	0
<i>Mackaya bella</i> Harv.	CS14 (JRAU)	1	1		0	0	1
<i>Maclura africana</i> (Bureau) Corne	OM2106 (JRAU)	1	1		0	0	0
	Rabenantonadro108						
<i>Macphersonia gracilis</i> O. Hoffm.	1 (MO)	0	1		0	0	0
<i>Maerua andradae</i> Wild	Lotter1802 (LYD)	1	1	0.47	0	0	1
	JKM&AMM418						
<i>Maerua angolensis</i> DC.	(EAH)	1	1		1	1	1
<i>Maerua cafra</i> (DC.) Pax	OM3189 (JRAU)	1	1		0	0	1
<i>Maerua crassifolia</i> Forssk.	MacraGeba	1	0		1	1	0
<i>Maerua decumbens</i> (Brongn.) DeWolf	OM2097 (JRAU)	1	1		1	1	0
<i>Maerua juncea</i> Pax	OM1592 (JRAU)	1	1		0	0	1
<i>Maerua parvifolia</i> Pax	RL1199 (JRAU)	1	0		0	0	0
<i>Maerua rosmarinoides</i> (Sond.) Gilg & Gilg-Ben.	OM1476 (JRAU)	1	1	0.47	0	0	1
<i>Maerua triphylla</i> A. Rich.	PMMMAERT (EAH)	1	0		1	1	1
<i>Maesobotrya barteri</i> (Baill.) Hutch.	PM5157	1	1		0	0	0
<i>Maesobotrya klaineana</i> (Pierre) J. Léonard	Philippe 147	1	1		0	0	0
<i>Maesobotrya staudtii</i> (Pax) Hutch.	PM4904	1	1		0	0	0

<i>Maesopsis eminii</i> Engl.	PM5303	1	1		0	0	0
<i>Magnistipula glaberrima</i> Engl.	PM4906	1	1		0	0	0
<i>Mallotus oppositifolius</i> (Geiseler) Müll.Arg.	Okoli25 (JRAU)	0	1		1	0	1
<i>Mammea africana</i> Sabine	PM4833	1	0		0	0	0
<i>Manilkara concolor</i> (Harv.) Gerstner	OM0989 (JRAU)	1	1	0.49	0	0	1
<i>Manilkara discolor</i> (Sond.) J. H. Hemsl.	OM2642 (JRAU)	1	1	0.49	0	0	1
<i>Manilkara mochisia</i> (Baker) Dubard	JKM&AMM588 (EAH)	0	1		0	0	1
<i>Manilkara nicholsonii</i> A.E. van Wyk	Abbott9202 (BNRH)	1	1		0	0	0
<i>Manilkara sulcata</i> (Engl.) Dubard	JKM856 (EAH)	1	0		1	0	1
<i>Maprounea africana</i> Müll. Arg.	OM2619 (JRAU)	1	1		0	0	1
<i>Maprounea membranacea</i> Pax & K. Hoffm.	SIMAB 010103	1	1		0	0	0
<i>Mareyopsis longifolia</i> (Pax) Pax & K. Hoffm.	PM5368	1	1		0	0	0
<i>Margaritaria discoidea</i> (Baill.) Webster ssp. <i>discoidea</i>	OM2639 (JRAU)	1	1		0	0	0
<i>Margaritaria discoidea</i> (Baill.) Webster ssp. <i>nitida</i>	OM1922 (JRAU)	1	1		0	0	0
<i>Markhamia obtusifolia</i> (Baker) Sprague	OM2375 (JRAU)	1	1		0	0	1
<i>Markhamia zanzibarica</i> (Bojer ex DC.) K. Schum.	OM3500 (JRAU)	1	1		0	0	1
<i>Marquesia acuminata</i> (Gilg) R. E. Fr.	OM4142	1	0		0	0	0
<i>Mascarenhasia arborescens</i> A.DC.	OM2664 (JRAU)	1	1		0	0	0
<i>Massularia acuminata</i> (G. Don) Bullock ex Hoyle	Archer2169 (PRE)	1	1		0	0	0
<i>Maurocenia frangula</i> Mill.	Abbott9139 (BNRH)	1	1		0	0	0
<i>Maytenus abbottii</i> A.E. van Wyk	Abbott9201 (BNRH)	1	1		0	0	1
<i>Maytenus acuminata</i> (L. f.) Loes.	OM1855 (JRAU)	1	1		1	0	0
<i>Maytenus albata</i> (N.E. Br.) E. Schmidt & Jordaan	Abbott9138 (BNRH)	1	1		0	0	0
<i>Maytenus cordata</i> (E. Mey. ex Sond.) Loes.	AMM,GM&JKM9138 (EAH)	1	1		1	0	0

<i>Maytenus oleoides</i> (Lam.) Loes.	MWC27163 (K)	1	1		0	0	0
<i>Maytenus peduncularis</i> (Sond.) Loes.	MWC27163	1	1		0	0	1
<i>Maytenus procumbens</i> (L. f.) Loes.	OM3602 (JRAU)	0	1		0	0	1
<i>Maytenus</i> sp. A	Abbott9140 (BNRH)	1	1		0	0	0
<i>Meiostemon tetrandrus</i> (Exell) Exell & Stace	OM1653 (JRAU)	1	1		0	0	0
<i>Melia volkensii</i> Gürke	MevolGeban	1	1		1	0	1
<i>Memecylon afzelii</i> G.Don	PM4991	1	1		0	0	0
<i>Memecylon englerianum</i> Cogn.	PM4916	1	1		0	0	0
<i>Memecylon flavovirens</i> Baker	Burrows13489	1	1		0	0	1
<i>Memecylon lateriflorum</i> (G. Don) Bremek.	PM5028	1	1		0	0	0
<i>Memecylon laurentii</i> De Wild.	P4789	1	1		0	0	0
<i>Memecylon natalense</i> Markgr.	MWC35866 (K)	0	1		0	0	1
<i>Metalasia densa</i> (Lam.) P. O. Karis	BS0166 (JRAU)	1	1		0	0	0
<i>Metalasia muricata</i> (L.) D. Don	AM0154 (JRAU)	1	1		0	0	1
<i>Metrosideros angustifolia</i> (L.) Sm	OM2303 (JRAU)	1	1		0	0	0
<i>Mezoneuron angolense</i> Oliv.	OM3976	1	1		1	0	1
<i>Micklethwaitia carvalhoi</i> (Harms) G.P. Lewis & Schrire	Burrows12833	1	1	0.49	0	0	1
<i>Micrococca capensis</i> (Baill.) Prain	Abbott9111 (BNRH)	1	1		0	0	1
<i>Microcos coriacea</i> Burret	PM4856	1	1		0	0	0
<i>Microdesmis afrodecandra</i> Floret, Louis & Reitsma	Philippe 141	1	1		0	0	0
<i>Microdesmis puberula</i> auct.	PM4846	1	1		0	0	0
<i>Milicia excels</i> (Welw.) C.C.Berg	OM2696 (JRAU)	1	1		0	0	0
<i>Milletia makoudensis</i>	Lotter1723 (LYD)	1	1		0	0	0
<i>Millettia grandis</i> (E. Mey.) Skeels	OM1757 (JRAU)	0	1	0.49	0	0	1
<i>Millettia mosambicense</i>	OM2335 (JRAU)	1	1		0	0	0
<i>Millettia stuhlmannii</i> Taub.	OM2522 (JRAU)	1	1		0	0	1
<i>Millettia usaramensis</i> Taub.	OM2433 (JRAU)	1	1		0	0	1

<i>Mimetes arboreus</i> Rourke	Latimer 27107 (NBG)	1	1		0	0	0
<i>Mimetes fimbriifolius</i> Salisb. ex Knight	AM0151 (JRAU)	1	1		0	0	0
<i>Mimusops caffra</i> E. Mey. ex A. DC.	OM2472 (JRAU)	1	1	0.49	0	0	1
<i>Mimusops obovata</i> Nees ex Sond.	OM1554 (JRAU)	1	1		0	0	0
<i>Mimusops obtusifolia</i> Lam.	OM2627 (JRAU)	1	1		0	0	1
<i>Mimusops zeyheri</i> Sond.	RBN248 (KNP)	1	1		0	0	1
<i>Mitragyna ledermannii</i> (K. Krause) Ridsdale	HaledGeba	1	1		0	0	0
<i>Mitriostigma axillare</i> Hochst.	Abbott9153 (BNRH)	1	1		0	0	0
<i>Mkilua fragrans</i> Verdc.	JKM867 (EAH)	1	0	6.86	0	0	1
<i>Monanthotaxis buchananii</i> (Engl.) Verdc.	OM2624 (JRAU)	1	1		0	0	1
<i>Monanthotaxis caffra</i> (Sond.) Verdc.	OM0276 (JRAU)	1	1		0	1	1
<i>Monanthotaxis fornicata</i> (Baill.) Verdc.	JKM881 (EAH)	1	1	0.49	0	0	1
<i>Monanthotaxis obovata</i> (Benth.) P.H. Hoekstra	Frobo2395	1	1		1	1	1
<i>Monanthotaxis parvifolia</i> (Oliv.) Verdc. ssp. <i>kenyensis</i>	JKM&AMM534 (EAH)	1	1		1	0	1
<i>Monanthotaxis trichocarpa</i> (Engl. & Diels) Verdc.	JKM883 (EAH)	1	1		0	0	1
<i>Mondia</i> sp.	Mosp.Geba	0	1		0	0	0
<i>Monodora junodii</i> ssp. <i>junodii</i> Engl. & Diels	RBN288 (KNP)	1	1	0.48	0	0	1
<i>Monodora junodii</i> var. <i>macrantha</i> Paiva	RBN159 (KNP)	1	1		0	0	1
<i>Monodora myristica</i> (Gaertn.) Dunal	Momyr00389	1	1		0	0	1
<i>Monodora stenopetala</i> Oliv.	OM2358 (JRAU)	1	1		0	0	1
<i>Monotes engleri</i> Gilg	Burrows12159	1	0		0	0	0
<i>Monotes glaber</i> Sprague	OM2130 (JRAU)	1	1		0	0	0
<i>Monotes katangensis</i> (De Wild.) De Wild.	OM4138	1	0		0	0	0
<i>Montinia caryophyllacea</i> Thunb	Bremer3521 (UPS)	0	1		0	0	0
<i>Morella brevifolia</i> (E.Mey. ex C.DC.) Killic	OM3812	1	1		0	0	1
<i>Morella cordifolia</i> (L.) Killick	OM2290 (JRAU)	1	1		0	0	0
<i>Morella serrata</i> (Lam.) Killick	Abbott9173 (BNRH)	1	1		0	0	0

<i>Moringa longituba</i> Engl.	JKM704 (EAH)	1	0	0	0	0
<i>Moringa oleifera</i> Lam.	Ilitis 30501 (WIS)	1	1	0	0	0
<i>Moringa ovalifolia</i> Dinter & A.Berger	2000_0148-09 (BR)	0	1	0	0	0
<i>Moringa rivaie</i> Chiov.	JKM&FHB677 (EA)	1	0	0.57	1	0
<i>Morus mesozygia</i> Stapf	OM2387	1	1	0	0	0
<i>Mostuea brunonis</i> Didr.	PM5411	1	1	0	1	1
<i>Mucuna poggei</i> Taub. var. <i>pesa</i>	OM4137	1	0	0	1	0
<i>Multidentia crassa</i> (Hiern) Bridson & Verdc. var. <i>crassa</i>	Burrows12145	1	1	0	0	0
<i>Mundulea sericea</i> (Willd.) A.Chev.	OM2625 (JRAU)	1	1	1	1	1
<i>Musanga cecropioides</i> R. Br.	PM5465	1	1	0	1	0
<i>Mussaenda arcuata</i> Lam. ex Poir.	McPherson16213 (MO)	1	1	1	1	0
<i>Mussaenda erythrophylla</i> Schumach. & Thonn.	Muery10838	0	1	0	0	0
<i>Myrianthus holstii</i> Engl.	OM4012	1	1	0	0	0
<i>Myrica pilulifera</i> Rendle	Mopil3819	1	1	0	0	0
<i>Myrsine africana</i> L.	OM2822 (JRAU)	1	1	1	1	0
<i>Mystroxylon aethiopicum</i> (Thunb.) Loes.	JKM&AMM509 (EA)	1	1	1	0	1
<i>Mystroxylon aethiopicum</i> (Thunb.) Loes.	PMMMYATM (EAH)	0	1	0	0	0
<i>Mystroxylon aethiopicum</i> subsp. <i>burkeanum</i> (Sond.) R. H. Archer	WB0002 (JRAU)	1	0	0	0	1
<i>Mystroxylon aethiopicum</i> subsp. <i>schlechteri</i> (Loes.) R. H. Archer	RBN355 (KNP)	1	1	1	0	1
<i>Napoleonaea talbotii</i> Baker f.	PM4859	1	1	0	0	1
<i>Napoleonaea talbotii</i> Baker f.	NatalGeban	1	1	0	0	0
<i>Necepsia</i> sp.	NeGeban	0	1	0	0	0
<i>Nectaropetalum capense</i> (Bulus) Stapf & Boodle	Abbott9146 (BNRH)	1	0	0	0	1
<i>Nectaropetalum kaessneri</i> Engl.	JKM857 (EAH)	1	0	1	0	1

<i>Nectaropetalum zuluense</i> (Schönland)							
Corbishley	OM2161 (JRAU)	1	1		0	0	1
<i>Neoboutonia mannii</i> Benth.	Fay 6701 (MO)	1	1		0	0	0
<i>Neoholstia tenuifolia</i> (Pax) Rauschert ssp. <i>tenuifolia</i>	Burrows12733	1	1		0	0	0
<i>Neonotonia wightii</i> (Wight & Arn.) J.A. Lackey	Glwig7483	1	0		1	1	0
<i>Newtonia buchananii</i> (Baker) G.C.C.Gilbert & Boutiq	BNBG69-6494 (BR)	0	1		0	0	0
<i>Newtonia duparquetiana</i> (Baill.) Keay	PM5343	1	1		0	0	0
<i>Newtonia hildebrandtii</i> (Vatke) Torre	BNBG73-2891 (BR)	0	1		0	0	1
<i>Newtonia leucocarpa</i> (Harms) G.C.C. Gilbert & Boutique	SIMAB12119	1	1		0	0	0
<i>Nicotiana africana</i> Merxm.	Clarkson020 (BM)	0	1		0	0	0
<i>Noronhia peglerae</i> (C.H. Wright) Hong-Wa & Besnard	Chpeg1766	1	1	0.51	0	0	1
<i>Nuxia congesta</i> R. Br. ex Fresen.	OM&MvdB52 (JRAU)	1	1		0	1	1
<i>Nuxia floribunda</i> Benth.	OM2025 (JRAU)	1	1		0	0	0
<i>Nuxia oppositifolia</i> (Hochst.) Benth.	OM2648 (JRAU)	1	1		0	1	1
<i>Nylandtia</i> sp.	NyGeba	1	1		0	0	0
<i>Nymania capensis</i> (Thunb.) Lindb.	OM1096 (JRAU)	1	1		0	0	0
<i>Obetia tenax</i> (N.E. Br.) Friis	OM0567 (JRAU)	1	1		0	0	0
<i>Ochna angustata</i> N. Robson	OM2659 (BNRH)	1	1	0.61	0	0	1
<i>Ochna arborea</i> Burch. ex DC.	CS03 (JRAU)	1	1		0	0	1
<i>Ochna atropurpurea</i> DC.	H. Schaefer 2008/796 (BM)	1	0		0	0	1
<i>Ochna confusa</i> Burt Davy & Greenway	OM3828 (BNRH)	1	0		0	0	0
<i>Ochna holstii</i> Engl.	OM2286 (JRAU)	1	1		0	0	0
<i>Ochna inermis</i> (Forssk.) Schweinf.	OM1196 (JRAU)	1	1		1	1	0
<i>Ochna natalitia</i> (Meisn.) Walp.	OM2228 (JRAU)	1	1		0	0	0
<i>Ochna pulchra</i> Hook.	OM2127 (JRAU)	1	1		0	0	0

<i>Ocimum gratissimum</i> L.	JKM7519 (EAH)	1	0		1	1	0
<i>Ocotea bullata</i> (Burch.) Baill.	Abbott9194 (BNRH)	1	1		0	0	1
<i>Ocotea usambarensis</i> Engl.	OM10185	1	1	0.54	0	1	0
<i>Octoknema affinis</i> Pierre	PM4977	1	1		0	0	0
<i>Olax dissitiflora</i> Oliv.	OM2070 (JRAU)	1	1		0	0	0
<i>Olax latifolia</i> Engl.	PM5496	1	1		0	0	0
<i>Olax pentandra</i> Sleumer	Burrows10902	1	1	0.47	0	0	1
<i>Oldenburgia grandis</i> (Thunb.) Baill.	Trinder-Smith s.n. (BOL)	0	1		0	0	0
<i>Olea capensis</i> L. ssp. <i>capensis</i>	OM3183 (JRAU)	1	1		0	0	0
<i>Olea capensis</i> subsp. <i>hochstetteri</i> (Baker) Friis & P.S. Green	OM2677 (JRAU)	1	1		1	1	1
<i>Olea europaea</i> L.	OM2818 (JRAU)	1	1		1	1	0
<i>Olea racemosa</i>	OM3219 (JRAU)	1	1		0	0	0
<i>Olea woodiana</i> Knobl.	OM1527 (JRAU)	1	1		0	0	0
<i>Olinia capensis</i> (Jacq.) Klotzsch	Schoenenberger 519 (Z, BOL)	1	1		0	0	0
<i>Olinia emarginata</i> Burt Davy	OM2252 (JRAU)	1	1		0	0	0
<i>Olinia radiata</i> Hofmeyr & E. Phillips	Abbott9119 (BNRH)	1	1		0	0	0
<i>Olinia vanguerioides</i> Baker f.	Blarer s.n. (Z)	1	1		0	0	0
<i>Olinia ventosa</i> (L.) Cufod.	OM3184 (JRAU)	1	1		0	0	0
<i>Oliverella hildebrandtii</i> (Engl.) Tiegh.	JKM&AMM572 (EAH)	1	0		1	0	1
<i>Oncinotis tenuiloba</i> Stapf	Abbott9254 (BNRH)	1	1		0	1	0
<i>Oncoba glauca</i> (P. Beauv.) Planch.	Philippe 153	1	1		0	0	0
<i>Oncoba mannii</i> Oliv.	PM5114	1	1		0	0	0
<i>Oncoba spinosa</i> Forssk.	RBN322 (KNP)	1	1		1	1	0
<i>Oncocalyx fischeri</i> (Engl.) M. G. Gilbert	JKM&AMM634A (EAH)	1	0		1	1	0
<i>Ophrypetalum odoratum</i> Diels	JKM876 (EAH)	1	1	21.99	0	0	1

<i>Opilia amentacea</i> Roxb.	Burrows12529	1	1		1	0	1
<i>Opilia</i> sp.	OpGeban	0	1		0	0	0
<i>Orbivestus cinerascens</i> (Sch. Bip.) H. Rob.	Vecie13214	1	1		1	0	1
<i>Oreobambos buchwaldii</i> K.Schum.	Kare s.n. (TCD)	0	1		0	0	0
<i>Ormocarpum kirkii</i> S.Moore	JKM&AMM637 (EAH)	1	0		0	0	1
<i>Ormocarpum trichocarpum</i> (Taub.) Engl.	OM2508 (JRAU)	1	1	0.48	1	0	0
<i>Osyris compressa</i> (P. J. Bergius) A. DC.	Abbott9227 (BNRH)	1	1		1	0	0
<i>Osyris lanceolata</i> Hochst. & Steud.	JKM&AMM515 (EAH)	0	1		1	1	1
<i>Otholobium caffrum</i> (Eckl. & Zeyh.) C.H. Stirt.	Abbott9245 (BNRH)	1	1		0	0	0
<i>Otholobium polystictum</i> (Benth. ex Harv.) C.H. Stirt.	AMM3678	1	1		0	0	1
<i>Otholobium spicatum</i> (L.) C.H. Stirt.	AMM3445 (BOL)	1	1		0	0	0
<i>Otholobium stachyerum</i> (Eckl. & Zeyh.) C.H. Stirt.	AMM3837 (BOL)	1	1		0	0	0
<i>Otholobium wilmsii</i> (Harms) C.H. Stirt.	AMM3782 (BOL)	1	1		0	0	0
<i>Oubanguia alata</i> Baker f.	PM5138	1	1		0	0	0
<i>Oubanguia laurifolia</i> (Pierre ex De Wild.) Tiegh.	PM4860	1	1		0	0	0
<i>Oxyanthus goetzei</i> K. Schum. subsp. <i>goetzei</i>	Burrows12714	1	1		0	0	0
<i>Oxyanthus latifolius</i> Sond.	OM2344 (JRAU)	1	1		0	0	0
<i>Oxyanthus laxiflorus</i> K. Schum. ex Hutch. & Dalziel	PM5515	1	1		0	0	0
<i>Oxyanthus pyriformis</i> (Hochst.) Skeels	OM2191 (JRAU)	1	1		1	0	0
<i>Oxyanthus speciosus</i> DC.	Abbott9253 (BNRH)	1	1		1	1	1
<i>Oxyanthus speciosus</i> subsp. <i>stenocarpus</i> (K. Schum.) Bridson	Burrows12813	1	1		0	0	0
<i>Oxytenanthera abyssinica</i> (A. Rich.) Munro	OM2572 (JRAU)	1	1		0	0	0
<i>Ozoroa albicans</i> R. Fern. & A. Fern.	Burrows8988 (BNRH)	1	0		0	0	0

<i>Ozoroa barbertonensis</i> Retief	Burrows8069 (BNRH)	1	1		0	0	0
<i>Ozoroa engleri</i> R. Fern. & A. Fern.	OM1169 (JRAU)	1	1		0	0	0
<i>Ozoroa homblei</i> (De Wild.) R. Fern. & A. Fern.	Burrows13461	1	1		0	1	1
<i>Ozoroa insignis</i> Delile	JKM&AMM441 (EAH)	1	0		1	0	0
<i>Ozoroa laetans</i>	Burrows12423 (BNRH)	1	1		1	1	0
<i>Ozoroa longipes</i> (Engl. & Gilg) R. Fern. & A. Fern.	Burrows13365	1	1		0	0	0
<i>Ozoroa nitida</i> (Engl. & Brehmer) R. Fern. & A. Fern.	Burrows13383	1	1		0	0	0
<i>Ozoroa obovata</i> (Oliv.) R. Fern. & A. Fern.	OM2511 (JRAU)	1	1	5.74	0	0	1
<i>Ozoroa paniculosa</i> (Sond.) R. Fern. & A. Fern.	OM1948 (JRAU)	1	1		0	0	0
<i>Ozoroa</i> sp.	AMM,GM&JKM8074 (EAH)	1	1		0	0	0
<i>Ozoroa sphaerocarpa</i> R. Fern. & A. Fern.	OM1106 (JRAU)	1	1		0	0	0
<i>Pachypodanthium</i> sp.	PM4961	1	1		0	0	0
<i>Pachypodium namaquanum</i> (Wyley ex Harv.) Welw.	OM2796 (JRAU)	1	1		0	0	0
<i>Pachypodium saundersii</i> N.E. Br.	OM1149 (JRAU)	1	1		0	0	0
<i>Pachystigma macrocalyx</i> (Sond.) Robyns	Vamac11043	1	1		0	0	0
<i>Pachystigma schumannianum</i> (Robyns) Bridson & Verdc.	JKM&AMM501 (EAH)	0	1		0	0	0
<i>Pachystigma venosum</i> Hochst.	Vaven12325	1	1		0	0	0
<i>Paederia pospischilii</i> K. Schum.	AMM9456 (EAH)	1	0	0.48	0	1	0
<i>Pancovia golungensis</i> (Hiern) Exell & Mendonça	OM2208 (JRAU)	1	1		0	0	1
<i>Pandanus kajui</i> Beentje	Pakaj224	1	1	0.53	0	0	0
<i>Pandanus kirkii</i> Rendle	Pakir40975	0	1	0.55	0	0	1
<i>Pandanus livingstonianus</i> Rendle	OM4015 (BNRH)	1	1		0	0	0
<i>Pappea capensis</i> Eckl. & Zeyh.	PMMPAPPC (EAH)	1	1		1	0	0

<i>Paranomus bracteolaris</i> Salisb. ex Knight	MWC28485 (K)	1	1		0	0	0
<i>Paranomus tomentosus</i> (E. Phillips & Hutch.) N.E. Br.	MWC28312 (K)	1	1		0	0	0
<i>Parinari capensis</i> subsp. <i>incohata</i> F. White	OM3613 (JRAU)	1	1		0	0	0
<i>Parinari curatellifolia</i> Planch. ex Benth.	OM2621 (JRAU)	1	1		1	0	0
<i>Parinari excelsa</i> Sabine	BB10672	1	0		0	0	1
<i>Paropsia braunii</i> Gilg	Burrows10672 (BNRH)	1	0	0.46	0	0	1
<i>Paropsia brazenana</i>	Fishwick sn	1	1		0	0	0
<i>Parthenium hysterophorus</i> L.	JKM&AMM435 (EAH)	1	1		1	1	0
<i>Passerina corymbosa</i> Eckl. ex C. H. Wright	OM3106 (JRAU)	1	1		0	0	0
<i>Passerina drakensbergensis</i> Hilliard & B. L. Burt	Bredenkamp1020	1	0		0	0	0
<i>Passerina falcifolia</i> (Meisn.) C. H. Wright	Bredenkamp915	1	0		0	0	0
<i>Passerina filiformis</i> L.	Abbott9175 (BNRH)	1	1		0	0	0
<i>Passerina montana</i> Thoday	OM3400 (JRAU)	1	1		0	0	0
<i>Passerina montivaga</i> C. L. Bredenkamp & A.E. van Wyk	vanWyk2586	1	0		0	0	0
<i>Passerina rigida</i> Wikstr.	OM1753 (JRAU)	1	1		0	0	0
<i>Paullinia pinnata</i> L.	Papin1193	1	1		1	0	1
<i>Pauridiantha floribunda</i> (K. Schum. & K. Krause) Bremek.	PM5582	1	1		0	0	0
<i>Pauridiantha</i> sp.	PaGeba	0	1		0	0	0
<i>Pauridiantha talbotii</i> (Wernham) Ntore & Dessein	PM5446	1	1		0	0	0
<i>Pausinystalia johimbe</i> (K. Schum.) Pierre	Philippe 242	1	1		0	0	0
<i>Pausinystalia macroceras</i> (K. Schum.) Pierre	Philippe 251	1	1		0	0	0
<i>Pavetta abyssinica</i> Fresen.	Paaby6	0	1		0	0	0
<i>Pavetta bowkeri</i> Harv.	Abbott9184 (BNRH)	1	1		0	0	0
<i>Pavetta cataractarum</i> S. Moore	Burrows12820	1	1		0	0	0

<i>Pavetta catophylla</i> K. Schum.	OM0335 (JRAU)	1	1		0	0	0
<i>Pavetta eylesii</i> S. Moore	OM2504 (JRAU)	1	1		0	0	0
<i>Pavetta eylesii</i> S. Moore	K-0858	1	1		0	0	0
<i>Pavetta galpinii</i> Bremek.	Abbott9251 (BNRH)	1	1		0	0	0
<i>Pavetta gerstneri</i> Bremek.	OM3273	1	0		0	0	0
<i>Pavetta harborii</i> S. Moore	Burrows13891	1	0		0	0	0
<i>Pavetta inandensis</i> Bremek.	Abbott9250 (BNRH)	1	1		0	0	0
<i>Pavetta lanceolata</i> Eckl.	OM2234 (JRAU)	1	1		0	0	0
<i>Pavetta radicans</i> Hiern	Burrows13510	1	1		0	0	0
<i>Pavetta refractifolia</i> K. Schum.	OM3516	1	1		0	0	0
<i>Pavetta revoluta</i> Hochst.	OM2195 (JRAU)	1	1	7.34	0	0	1
<i>Pavetta schumanniana</i> F. Hoffm. ex K. Schum.	OM0941 (JRAU)	1	1		0	0	0
<i>Pavetta staudtii</i> Hutch. & Dalziel	PM5045	1	1		0	0	0
<i>Pavetta teitana</i> K. Schum.	JKM429 (EAH)	0	1		0	0	0
<i>Pavetta zeyheri</i> Sond.	OM1939 (JRAU)	1	1		0	0	0
<i>Peddiea africana</i> Harv.	OM2469 (JRAU)	1	1		0	0	0
<i>Peddiea fischeri</i> Engl.	Burrows13493	1	0		0	0	0
<i>Pelargonium quinquelobatum</i> Hochst. ex A. Rich.	JKM419 (EAH)	1	0		1	1	0
	AMM&JKM7475 (EAH)	1	0		0	0	0
<i>Pellaea longipilosa</i> Bonap.							
<i>Peltophorum africanum</i> Sond.	OM2401 (JRAU)	1	1		0	0	1
<i>Pentadesma butyracea</i> Sabine	PM5211	1	0		0	0	0
<i>Pericopsis angolensis</i> (Baker) Meeuwen	Burrows13443	1	1		0	0	1
<i>Petitiocodon parviflorum</i> (Keay) Robbr.	PM5386	1	1		0	0	0
<i>Phaeoptilum spinosum</i> Radlk.	OM2957 (JRAU)	1	1		0	0	0
<i>Philenoptera bussei</i> (Harms) Schrire	OM2376 (JRAU)	1	1		0	0	1
	JKM&AMM471 (EAH)	1	0	0.49	1	0	0
<i>Philenoptera eriocalyx</i> (Harms) Schrire							

<i>Philenoptera violacea</i> (Klotzsch) Schrire	OM0242 (JRAU)	1	1	0	0	1	
<i>Phoenix reclinata</i> Jacq.	OM1122 (JRAU)	0	1	0	1	0	
<i>Phyllica buxifolia</i> L.	OM3096 (JRAU)	1	1	0	0	0	
<i>Phyllica oleifolia</i> Vent.	MWC03273 (K)	1	1	0	0	0	
<i>Phyllica paniculata</i> Willd.	Abbott9174 (BNRH)	1	1	0	0	1	
<i>Phyllanthus engleri</i> Pax	OM4014	1	1	0	0	0	
<i>Phyllanthus hutchinsonianus</i> S. Moore	PhhutGeban	0	1	0	0	0	
<i>Phyllanthus inflatus</i> Hutch.	OM1884 (JRAU)	1	1	0	0	0	
<i>Phyllanthus ovalifolius</i> Forssk.	OM2455 (JRAU)	1	1	1	1	0	
<i>Phyllanthus pinnatus</i> (Wight) Webster	OM0843 (JRAU)	1	1	0	0	0	
<i>Phyllanthus reticulatus</i> Poir. var. <i>reticulatus</i>	OM0224 (JRAU)	1	1	1	1	1	
<i>Phyllanthus sepialis</i> Müll.Arg.	Phsep42614	0	1	1	1	0	
<i>Phyllobotryon spathulatum</i> Müll. Arg.	PM4800	1	1	0	0	0	
<i>Phymaspermum acerosum</i> (DC.) Källersjö	Magee306 (NH)	1	1	0	0	0	
<i>Phytolacca octandra</i> L.	Phoct13368	1	1	0	0	0	
<i>Piliostigma thonningii</i> (Schumach.) Milne-Redh.	Batho3503	1	0	1	0	1	
<i>Piliostigma thonningii</i> (Schumach.) Milne-Redh.	OM3590	1	0	1	0	1	
<i>Piper capense</i> L.f.	OM4000 (BNRH)	1	0	1	1	0	
<i>Piper umbellatum</i> L.	PiumbGeban	1	0	0	1	0	
<i>Piptostigma oyemense</i> Pellegr.	PM4980	1	1	0	0	0	
<i>Pisonia aculeata</i> L.	Burrows12770	1	1	1	0	0	
<i>Pisonia grandis</i> R. Br.	Pigra1391	1	1	0.47	0	0	1
<i>Pittosporum viridiflorum</i> Sims ssp. <i>viridiflorum</i>	OM2815 (JRAU)	1	1	1	0	0	
<i>Placodiscus</i> sp.	PM5125	1	1	0	0	0	
<i>Platylophus trifolius</i> (L. f.) D. Don	OM3163 (JRAU)	1	1	0	0	0	
<i>Plectranthus barbatus</i> Andrews	Plbar45114	1	1	0.51	1	0	0
<i>Plectranthus fruticosus</i> L'Hér.	RBN292	1	0	0	0	0	

<i>Pleiocarpa pycnantha</i> (K.Schum.) Stapf	OM2652 (JRAU)	1	1		0	0	0
<i>Pleioceras</i> sp.	PIGeban	0	1		0	0	0
<i>Pleurostylia capensis</i> (Turcz.) Loes.	OM1867 (JRAU)	0	1		0	0	0
<i>Pluchea dioscoridis</i> (L.) DC.	OM2428 (JRAU)	1	1		1	1	1
<i>Pluchea ovalis</i> (Pers.) DC.	Plov154815	1	1	0.52	0	1	0
<i>Plumbago auriculata</i> Lam.	OM1686 (JRAU)	1	1		1	0	0
<i>Podalyria calypttrata</i> (Retz.) Willd.	MWC16091 (K)	1	1		0	0	0
<i>Podalyria myrtillifolia</i> (Retz.) Willd.	AMM5052 (BOL)	1	1		0	0	0
<i>Podalyria velutina</i> Burch. ex Benth.	Abbott9127	1	1		0	0	0
<i>Podocarpus elongatus</i> (Aiton) L'Hér. ex Pers.	n.a.	1	1		0	0	0
<i>Podocarpus falcatus</i> Mirb.	Adelaide BG G870288	1	1		0	0	0
<i>Podocarpus henkelii</i> Stapf ex Dallim. & A.B. Jacks.	Adelaide BG 842959	1	1		0	0	0
<i>Podocarpus latifolius</i> (Thunb.) Mirb.	Mt Lofty BG G900695	1	1		0	0	0
<i>Polyceratocarpus parviflorus</i>	PM5038	1	1		0	0	0
<i>Polygala myrtifolia</i> L.	MWC18613 (K)	1	1		0	0	0
<i>Polygala virgata</i> Thunb.	Abbott9243 (BNRH)	1	1		0	0	0
<i>Polygonum afromontanum</i> Greenway	JKM903 (EAH)	1	1	0.43	0	1	0
<i>Polyscias fulva</i> (Hiern) Harms	OM1896 (JRAU)	1	1	7.89	0	1	0
<i>Polysphaeria lanceolata</i> Hiern	OM2647 (JRAU)	1	1		0	0	0
<i>Polysphaeria macrophylla</i> K. Schum.	PM4940	1	1		0	0	0
<i>Polysphaeria parvifolia</i> Hiern	Popar87279	0	1		0	1	1
<i>Populus ilicifolia</i> (Engl.) Rouleau	Poili937	1	1		0	0	0
<i>Portulacaria afra</i> Jacq.	OM3198 (JRAU)	1	1		0	0	0
<i>Portulacaria fruticulosa</i> (H. Pearson & Stephens) Bruyns & Klak	CefruGeban	1	1		0	0	0
<i>Pouteria pseudoracemosa</i> (J. H. Hemsl.) L. Gaut.	Popse861	1	0		0	0	0

<i>Pouteria</i> sp.	PoGeban	0	1		0	0	0
<i>Pouzolzia mixta</i> Solms	OM1417 (JRAU)	1	1		1	1	0
<i>Premna chrysoclada</i> (Bojer) Gürke	JKM844 (EAH)	1	0	0.51	0	0	1
<i>Premna hildebrandtii</i> Gürke	JKM850 (EAH)	1	0		0	0	0
<i>Premna mooiensis</i> (H. Pearson) W. Piep.	OM1645 (JRAU)	1	1		0	0	0
<i>Premna oligotricha</i> Baker	JKM583 (EAH)	1	1	0.5	1	0	0
<i>Prionostemma delagoensis</i> (Loes.) N. Hallé	OM3738 (JRAU)	0	1		0	0	1
<i>Pristimera longipetiolata</i> (Oliv.) N. Hallé	OM1098	1	1		0	0	1
<i>Protea acaulos</i> (L.) Reichard	OM3043	1	1		0	0	0
<i>Protea acuminata</i> Sims	PG0044	1	1		0	0	0
<i>Protea angustata</i> R. Br.	MWC25794	1	1		0	0	0
<i>Protea aurea</i> (Burm. f.) Rourke	MWC24059 (K)	1	1		0	0	0
<i>Protea caffra</i> Meisn. subsp. <i>caffra</i>	Abbott9234 (BNRH)	1	1		0	0	0
<i>Protea canaliculata</i> Andrews	DGE158-26.03.2011	0	1		0	0	0
<i>Protea cordata</i> Thunb.	OM3125	1	1		0	0	0
<i>Protea coronata</i> Lam.	MWC25806 (K)	1	1		0	0	0
<i>Protea decurrens</i> E. Phillips	MWC24069	1	1		0	0	0
<i>Protea eximia</i> (Salisb. ex Knight) Fourc.	EFG.708.1	1	1		0	0	0
<i>Protea gagedi</i> J.F. Gmel.	Turpin471 (BNRH)	1	1		1	1	0
<i>Protea glabra</i> Thunb.	MWC25805 (K)	1	1		0	0	0
<i>Protea humiflora</i> Andrews	MWC24061	1	1		0	0	0
<i>Protea laevis</i> R. Br.	MWC25800	1	1		0	0	0
<i>Protea laurifolia</i> Thunb.	MWC25802 (K)	1	1		0	0	0
<i>Protea lorifolia</i> (Salisb. ex Knight) Fourc.	CM.705.20	1	0		0	0	0
<i>Protea mundii</i> Klotzsch	MWC24058 (K)	1	1		0	0	0
<i>Protea neriifolia</i> R. Br.	Anderson10 (UPS)	0	1		0	0	0
<i>Protea nitida</i> Mill.	MWC25791 (K)	1	1		0	0	0
<i>Protea parvula</i> Beard	OM3817 (BNRH)	1	1		0	0	0

<i>Protea petiolaris</i> (Hiern) Baker & C.H. Wright	OM4013	1	1	0	0	0
<i>Protea piscina</i> Rourke	JAS.709.27	1	0	0	0	0
<i>Protea pityphylla</i> E. Phillips	MWC25798	1	1	0	0	0
<i>Protea pudens</i> Rourke	MWC25797	1	1	0	0	0
<i>Protea punctata</i> Meisn.	MWC24085 (K)	1	1	0	0	0
<i>Protea repens</i> (L.) L.	OM3109 (JRAU)	1	1	0	0	0
<i>Protea revoluta</i> R. Br.	PG0057	1	1	0	0	0
<i>Protea roupelliae</i> Meisn. subsp. <i>roupelliae</i>	Abbott9165 (BNRH)	1	1	0	0	0
<i>Protea scabra</i> R. Br.	MWC25796	1	1	0	0	0
<i>Protea scabriuscula</i> E. Phillips	MWC25799	1	1	0	0	0
<i>Protea scolymocephala</i> (L.) Reichard	MWC25792	1	1	0	0	0
<i>Protea subulifolia</i> (Salisb. ex Knight) Rourke	MWC24062	1	1	0	0	0
<i>Protea welwitschii</i> Engl.	MvdB0024 (JRAU)	1	1	0	0	0
<i>Protomegabaria stapfiana</i> (Beille) Hutch.	PM5148	1	1	0	0	0
<i>Protorhus longifolia</i> (Bernh.) Engl.	OM1764 (JRAU)	1	1	0	0	0
<i>Prunus africana</i> (Hook.f.) Kalkman	OM1568 (JRAU)	1	1	1	1	1
<i>Pseudarthria hookeri</i> Wight & Arn.	OM1473 (JRAU)	1	1	0	0	0
<i>Pseudobersama mossambicensis</i> (Sim) Verdc.	OM2645 (JRAU)	1	1	0	0	0
<i>Pseudolachnostylis maprouneifolia</i> Pax	OM2071	1	1	0	0	1
<i>Pseudomussaenda flava</i> Verdc.	PsflaL061	0	1	1	0	0
<i>Pseudophyllanthus ovalis</i> (E. Mey. ex Sond.) Voronts. & Petra Hoffm.	PsovaGeba	0	1	0	0	0
<i>Pseudosalacia streyi</i> Codd	Abbott9248 (BNRH)	1	1	0	0	1
<i>Pseudoscolopia polyantha</i> Gilg	Abbott9124	1	0	0	0	0
<i>Pseudospondias microcarpa</i> (A. Rich.) Engl.	PM5455	1	0	0	0	0
<i>Psiadia punctulata</i> (DC.) Vatke	Pspun39814	1	1	1	1	0
<i>Psilanthus mannii</i> Hook. f.	PM5171	1	1	0	0	0
<i>Psoralea affinis</i> Eckl. & Zeyh.	AMM3903.2	1	1	0	0	0
<i>Psoralea aphylla</i> L.	AMM3400 (BOL)	1	1	0	0	0

<i>Psoralea arborea</i> Sims	Pslat3881	1	1	0	0	1
<i>Psoralea axillaris</i> L.	AMM5874 (BOL)	1	1	0	0	0
<i>Psoralea filifolia</i> Eckl. & Zeyh.	AMM4321 (BOL)	1	1	0	0	0
<i>Psoralea glabra</i> E. Mey.	AMM3646 (BOL)	1	1	0	0	0
<i>Psoralea pinnata</i> L. var. <i>pinnata</i>	OM3107 (JRAU)	1	1	0	0	0
<i>Psoralea rhizotoma</i> C.H.Stirt.	OM3837	1	1	0	0	0
<i>Psychotria bimbiensis</i> Bridson & Cheek	PM4853	1	1	0	0	0
<i>Psychotria capensis</i> (Eckl.) Vatke	OM1577 (JRAU)	1	1	0	1	1
<i>Psychotria capensis</i> var. <i>puberula</i> (E.M.A. Petit) Verdc.	Psmah8370	1	0	0	0	0
<i>Psychotria dorotheae</i> Wernham	P4775	1	0	0	0	0
<i>Psychotria faucicola</i> K. Schum.	Psfau3198	1	0	0	0	1
<i>Psychotria gabonica</i> Hiern	SIMAB 010204	1	1	0	0	0
<i>Psychotria lauracea</i> (K. Schum.) E.M.A. Petit	JKM&AMM662 (EAH)	1	0	0	0	0
<i>Psychotria moninensis</i> subsp. <i>butayei</i> (De Wild.) O. Lachenaud	Psbut13371	1	1	0	0	0
<i>Psychotria peduncularis</i> (Salisb.) Steyerm.	OM2666 (BNRH)	1	1	0	0	0
<i>Psychotria petitii</i> Verdc.	Pspet6626	0	1	0	0	0
<i>Psychotria pumila</i> Hiern	Burrows11719 (BNRH)	1	1	0	1	0
<i>Psychotria punctata</i> Vatke	JKM697 (EAH)	1	0	1	0	1
<i>Psychotria spithamea</i> S. Moore	Burrows13404	1	1	0	0	0
<i>Psychotria spithamea</i> S. Moore	OM4001	1	1	0	0	0
<i>Psydrax faulknerae</i> Bridson	JKM871 (EAH)	1	1	0	0	0
<i>Psydrax locuples</i> (K. Schum.) Bridson	OM2483 (JRAU)	1	1	0	0	0
<i>Psydrax micans</i> (Bullock) Bridson	OM2678 (JRAU)	1	1	0	0	0
<i>Psydrax obovata</i> (Klotzsch ex Eckl. & Zeyh.) Bridson subsp. <i>obovata</i>	OM1756 (JRAU)	1	1	0	0	0
<i>Psydrax schimperiana</i> (A. Rich.) Bridson	JKM513 (EAH)	0	1	1	1	0

<i>Pteleopsis anisoptera</i> (Welw. ex M. A. Lawson)						
Engl. & Diels	OM1656 (JRAU)	1	1		0	0
<i>Pteleopsis myrtifolia</i> (M. A. Lawson) Engl. & Diels	OM2368 (JRAU)	1	1		0	0
<i>Pterocarpus brenanii</i> Barbosa & Torre	OM2510 (JRAU)	1	1		0	0
<i>Pterocarpus lucens</i> subsp. <i>antunesii</i> (Taub.) Rojo	OM4170	1	0		1	1
<i>Pterocarpus rotundifolius</i> subsp. <i>polyanthus</i> (Harms) Mendonça & E.C. Sousa	OM2317 (JRAU)	1	0		0	0
<i>Pterocelastrus echinatus</i> N.E. Br.	OM1868 (JRAU)	1	1		0	0
<i>Pterocelastrus rostratus</i> (Thunb.) Walp.	Abbott9203 (BNRH)	1	1		0	0
<i>Pterolobium stellatum</i> (Forssk.) Brenan	JKM&AMM630 (EAH)	0	1		0	1
<i>Ptychopetalum petiolatum</i> Oliv.	PM5143	1	1		0	0
<i>Putterlickia pyracantha</i> (L.) Szyszyl.	AM0234 (JRAU)	1	1		0	0
<i>Putterlickia retrospinosa</i> A.E. van Wyk & Mostert	Abbott9126 (BNRH)	1	1		0	0
<i>Putterlickia saxatilis</i> (Burch.) Jordaan	Greff102	1	1		0	0
<i>Putterlickia verrucosa</i> (E. Mey. ex Sond.) Szyszyl.	OM1404 (JRAU)	1	1		0	0
<i>Pycnocomma littoralis</i> Pax	Burrows09173	1	1	0.49	0	0
<i>Pycnocomma macrophylla</i> Benth.	P4777	1	1		0	0
<i>Pycnostachys reticulata</i> (E.Mey.) Benth.	OM1992 (JRAU)	1	1		0	0
<i>Pygmaeothamnus chamaedendrum</i> (Kuntze) Robyns var. <i>chamaedendrum</i>	Burrows12689 (BNRH)	1	1		0	0
<i>Pygmaeothamnus zeyheri</i> var. <i>rogersii</i> Robyns	Burrows13446	1	1		0	0
<i>Pyrostria bibracteata</i> (Baker) Cavaco	OM2679 (JRAU)	1	1	1.51	0	0
<i>Pyrostria hystrix</i> (Bremek.) Bridson	OM1195 (JRAU)	1	1		0	0
<i>Pyrostria phyllanthoidea</i> (Baill.) Bridson	JKM&AMM456 (EAH)	1	1		0	1
<i>Quassia undulata</i> (Guill. & Perr.) D. Dietr.	Burrows13436	1	1		0	0
<i>Quisqualis parviflora</i> Gerrard ex Sond.	Abbott8891 (BNRH)	1	1	0.96	0	0

<i>Rapanea melanophloeos</i> (L.) Mez	OM3166 (JRAU)	1	1	1	1	0
<i>Raphia australis</i> Oberm. & Strey	CS18 (JRAU)	1	1	0	0	0
<i>Raphia farinifera</i> (Gaertn.) Hyl.	MWC14927 (K)	1	1	0	0	0
<i>Raspalia trigyna</i> (Schltr.) Dummer	De Lange6 (NBG)	0	1	0	0	0
<i>Rauvolfia caffra</i> Sond.	OM1376 (JRAU)	1	1	1	1	0
<i>Rauvolfia mannii</i> Stapf	PM4919	1	1	1	0	0
<i>Rauvolfia mombasiana</i> Stapf	OM3530	1	1	1	0	1
<i>Rauvolfia vomitoria</i> Afzel.	PM4824	1	1	0	0	0
<i>Rawsonia lucida</i> Harv. & Sond.	JKM646 (EAH)	0	1	1	0	0
<i>Reissantia indica</i> (Willd.) N. Hallé	Hiind1925	1	1	0	0	0
<i>Rhamnus prinoides</i> L'H, r.	OM3174 (JRAU)	1	1	1	0	0
<i>Rhamnus staddo</i> A.Rich.	JKM500 (EAH)	0	1	1	1	0
<i>Rhaptopetalum</i> sp.	PM4822	1	1	0	0	0
<i>Rhigozum obovatum</i> Burch.	OM2942 (JRAU)	1	1	0	0	1
<i>Rhigozum zambesiicum</i> Baker	OM1590 (JRAU)	1	1	0	0	0
<i>Rhizophora mucronata</i> Lam.	OM2479 (BNRH)	1	1	1.01	0	0
<i>Rhodognaphalon schumannianum</i> A. Robyns	Borho2342	1	1	0.49	0	0
<i>Rhoicissus digitata</i> (L. f.) Gilg & M. Brandt	Abbott9200 (BNRH)	1	1	0	0	0
<i>Rhoicissus revoilii</i> Planch.	OM2657 (JRAU)	1	1	1	1	1
<i>Rhoicissus rhomboidea</i> (E. Mey. ex Harv.) Planch.	Abbott9181 (BNRH)	1	1	0	0	0
<i>Rhoicissus sessilifolia</i> Retief	Abbott9206	1	1	0	0	0
<i>Rhoicissus tomentosa</i> (Lam.) Wild & R. B. Drumm.	OM1546 (JRAU)	1	1	0	0	0
<i>Rhoicissus tridentata</i> (L. f.) Wild & R. B. Drumm.	JKM,AMM&GM575 (EAH)	0	1	1	1	0
<i>Rhus nebulosa</i> Schönland	Abbott9106	1	1	0	0	0
<i>Rhus pallens</i> Eckl. & Zeyh.	Abbott1976	1	1	0	0	0
<i>Rhynchocalyx lawsonioides</i>	Abbott9125 (BNRH)	1	1	0	0	0

<i>Rhynchosia malacophylla</i> (Spreng.) Bojer	JKM&AMM616 (EAH)	0	1		1	1	0
<i>Rhynchosia monophylla</i> Schltr.	Burrows12692 (BNRH)	1	1		0	0	0
<i>Ricinodendron heudelotii</i> (Baill.) Heckel	Burrows1269 (BNRH)	1	0		0	0	0
<i>Ricinus communis</i> L.	Burrows166717 (BNRH)	0	1		1	1	1
<i>Rinorea angustifolia</i> (Thouars) Baill. subsp. natalensis	Abbott9152 (BNRH)	1	1		0	0	1
<i>Rinorea cauliflora</i> (Oliv.) Kuntze	PM5548	1	1		0	0	0
<i>Rinorea</i> cf.	PM4913	1	0		0	0	0
<i>Rinorea crassifolia</i> (Baker f.) De Wild.	PM5413	1	1		0	0	0
<i>Rinorea dentata</i> (P. Beauv.) Kuntze	PM5462	1	1		0	0	0
<i>Rinorea domatiosa</i> A.E. van Wyk	Abbott9186 (BNRH)	1	1		0	0	0
<i>Rinorea elliptica</i> (Oliv.) Kuntze	OM2333 (JRAU)	1	1	1.92	0	0	1
<i>Rinorea gabunensis</i> Engl.	PM4962	1	1		0	0	0
<i>Rinorea ilicifolia</i> (Welw. ex Oliv.) Kuntze	Enti_sp644 (MO)	0	1		0	0	1
<i>Rinorea kamerunensis</i> Engl.	PM5041	1	0		0	0	0
<i>Rinorea leiophylla</i> M. Brandt	PM5162	1	0		0	0	0
<i>Rinorea lepidobotrys</i> Mildbr.	PM5241	1	1		0	0	0
<i>Rinorea oblongifolia</i> (C. H. Wright) Marquand ex Chipp	P4807	1	0		0	0	1
<i>Rinorea subintegrifolia</i> (P. Beauv.) Kuntze	PM4976	1	1		0	0	0
<i>Rinorea thomasii</i> Achound.	PM4938	1	1		0	0	0
<i>Ritchiea capparoides</i> (Andrews) Britten	Lotter1805 (LYN)	1	1		0	0	1
<i>Ritchiea pygmaea</i> (Gilg) DeWolf	Lotter1801 (LYN)	1	1		0	0	1
<i>Robsonodendron eucleiforme</i> (Eckl. & Zeyh.) R. H. Archer	Abbott9132 (BNRH)	1	1		0	0	0
<i>Rotheca myricoides</i> (Hochst.) Steane & Mabb.	JKM&AMM406 (EAH)	1	1		1	1	1

<i>Rothmannia capensis</i> Thunb.	OM1786 (JRAU)	1	1		0	0	0
<i>Rothmannia globosa</i> (Hochst.) Keay	OM1887 (JRAU)	1	1		0	0	0
<i>Rothmannia hispida</i> (K. Schum.) Fagerl.	P4792	1	1		0	0	0
<i>Rothmannia longiflora</i> Salisb.	RolonGeban	1	0		0	0	0
<i>Rothmannia macrosiphon</i> (K. Schum. ex Engl.) Bridson	Romac9306	0	1		0	0	0
<i>Rothmannia manganjiae</i> (Hiern) Keay	JKM819 (EAH)	0	1		0	0	0
<i>Rothmannia ravae</i> (Chiov.) Bridson	Rorav316	0	1	0.48	1	0	0
<i>Rothmannia talbotii</i> (Wernham) Keay	PM5291	1	1		0	0	0
<i>Rothmannia urcelliformis</i> (Hiern) Robyns	OM3898	0	1		1	1	0
<i>Rubus keniensis</i> Standl.	JKM 905 (EAH)	1	0		0	0	0
<i>Rubus niveus</i> Thunb.	RunivR0101	1	0		0	0	0
<i>Ruspolia hypocrateriformis</i> (Vahl) Milne-Redh.	OM1345 (JRAU)	1	1		0	0	0
<i>Rutidea fuscescens</i> Hiern	Rufus120	1	0		0	0	0
<i>Rutidea orientalis</i> Bridson	Ruori68	1	0		0	0	0
<i>Ruttya fruticosa</i> Lindau	RufuGenban	1	0	0.51	0	1	0
<i>Ruttya ovata</i> Harv.	OM1150 (JRAU)	1	1	0.51	0	0	1
<i>Rytigynia bugoyensis</i> (K. Krause) Verdc.	JKM656 (EAH)	0	1		0	0	0
<i>Rytigynia celastroides</i> (Baill.) Verdc.	Burrows11261	1	1	1.49	0	0	1
<i>Rytigynia macrura</i> Verdc.	Burrows11139	1	1		0	0	0
<i>Rytigynia orbicularis</i> (K. Schum.) Robyns	Burrows13428	1	1		0	0	0
<i>Rytigynia uhligii</i> (K. Schum. & K. Krause) Verdc.	Burrows09894	1	0		0	0	1
<i>Rytigynia umbellulata</i> (Hiern) Robyns	Burrows12508	1	1		0	0	0
<i>Saba comorensis</i> (Bojer) Pichon	OM3578	1	1		1	1	0
<i>Salacia bussei</i> Loes.	Burrows13458	1	1		0	0	0
<i>Salacia gerrardii</i> Harv. ex Sprague	Abbott9241 (BNRH)	1	1		0	0	0
<i>Salacia kraussii</i> (Harv.) Harv.	RBN102 (KNP)	1	1		0	0	0
<i>Salacia lehmbachii</i> f. <i>leonensis</i>	P4797	1	1		0	0	0
<i>Salacia loloensis</i> Loes.	PM5288	1	1		0	0	0

<i>Salacia rehmannii</i> Schinz	BB7426	1	1		0	0	0
<i>Salix mucronata</i> Thunb.	OM1198 (JRAU)	1	1		0	1	0
<i>Salvadora australis</i> Schweick.	OM1317 (JRAU)	1	1		0	0	0
<i>Salvadora persica</i> L.	OM0824 (JRAU)	1	1		1	0	1
<i>Santiria trimera</i> (Oliv.) Aubrév.	Philippe 081	1	1		0	0	0
<i>Sapium ellipticum</i> (Krauss) Pax	PM5290	1	1		0	0	1
<i>Scaevola taccada</i> (Gaertn.) Roxb.	Sctac1392	1	1	47.6	0	0	1
<i>Schefflera goetzenii</i> Harms	BDV015 (BNRH)	0	1		1	1	0
<i>Schefflera umbellifera</i> (Sond.) Baill.	OM2187 (JRAU)	1	1		0	0	0
<i>Schinziophyton rautanenii</i> (Schinz) Radcl.-Sm.	OM2449 (JRAU)	1	1		0	0	0
<i>Schizogygia coffaeoides</i> Baill.	Sccof207	1	0	0.41	0	0	1
<i>Schlechterina mitostemmatoïdes</i> Harms	Scmit270	1	1	1.38	0	0	1
<i>Schotia afra</i> (L.) Thunb. var. <i>afra</i>	OM2274 (JRAU)	1	1		0	0	0
<i>Schotia brachypetala</i> Sond.	OM1166 (JRAU)	1	1		0	0	0
<i>Schotia capitata</i> Bolle	OM1159 (JRAU)	1	1	0.47	0	0	1
<i>Schotia latifolia</i> Jacq.	Bruneau s.n. (K)	0	1		0	0	0
<i>Schrebera alata</i> (Hochst.) Welw.	PMMSCHLA (EAH)	1	0		1	1	1
<i>Schrebera trichoclada</i> Welw.	OM2636 (JRAU)	1	1		0	0	1
<i>Schumanniophyton magnificum</i> (K. Schum.) Harms	PM4863	1	1		0	0	0
<i>Sclerocarya birrea</i> (A.Rich.) Hochst.	JKM&AMM424 (EAH)	1	1		1	1	0
<i>Sclerochiton kirkii</i> (T. Anderson) C.B. Clarke	OM2359 (JRAU)	1	1	0.57	0	0	1
<i>Sclerocroton integerrimus</i> Hochst.	OM2489 (JRAU)	1	1		0	0	0
<i>Scolopia mundii</i> (Eckl. & Zeyh.) Warb.	OM2309 (JRAU)	1	1		0	0	0
<i>Scolopia stolzii</i> Gilg ex Sleumer	OM2675 (JRAU)	1	1		0	0	0
<i>Scolopia zeyheri</i> (Nees) Harv.	OM1781 (JRAU)	1	1		1	0	1
<i>Scorodophloeus fischeri</i> (Taub.) J. Léonard	Burrows11301	1	1	0.5	0	0	1
<i>Scorodophloeus torrei</i> Lock	Burrows12595	1	1	0.5	0	0	1

<i>Scottellia klaineana</i> Pierre	PM4983	1	1	0	1	0
<i>Scutia myrtina</i> (Burm.f.) Kurz	JKM&AMM510 (EAH)	1	1	1	1	1
<i>Searsia acocksii</i> (Moffett) Moffett	Abbott9154 (BNRH)	1	1	0	0	0
<i>Searsia angustifolia</i> (L.) F.A. Barkley	OM2847 (JRAU)	1	1	0	0	0
<i>Searsia chirindensis</i> (Baker f.) Moffett	OM2284 (JRAU)	1	1	0	1	0
<i>Searsia ciliata</i> (Licht. ex Schult.) A.J. Mill.	Hahn2981	1	1	0	0	0
<i>Searsia crenata</i> (Thunb.) Moffett	OM1986 (JRAU)	1	1	0	0	1
<i>Searsia dentata</i> (Thunb.) F.A. Barkley	OM2251 (JRAU)	1	0	0	1	0
<i>Searsia discolor</i> (E. Mey. ex Sond.) Moffett	OM3911 (BNRH)	1	1	0	0	1
<i>Searsia fanshawei</i> (R. Fern. & A. Fern.) Moffett	Burrows13374	1	1	0	0	0
<i>Searsia fastigiata</i> (Eckl. & Zeyh.) Moffett	Abbott9135 (BNRH)	1	1	0	0	1
<i>Searsia glauca</i> (Thunb.) Moffett	OM1826 (BNRH)	0	1	0	0	0
<i>Searsia gueinzii</i> (Sond.) F.A. Barkley	OM0265 (JRAU)	1	1	0	0	0
<i>Searsia incisa</i> (L. f.) F.A. Barkley var. <i>incisa</i>	OM3059 (JRAU)	1	1	0	0	0
<i>Searsia kirkii</i> (Oliv.) Moffett	Burrows13400	1	1	0	0	0
<i>Searsia laevigata</i> (L.) F.A. Barkley	OM3214 (JRAU)	1	1	0	0	0
<i>Searsia laevigata</i> var. <i>villosa</i> (L. f.) Moffett	JWB509 (NBG)	1	0	0	0	0
<i>Searsia lancea</i> (L. f.) Moffett	OM1942 (JRAU)	1	1	0	0	1
<i>Searsia leptodictya</i> (Diels) T.S. Yi, A.J. Mill. & J.Wen	RL1655 (JRAU)	1	1	0	0	0
<i>Searsia longipes</i> (Engl.) Moffett	JKM&AMM545 (EAH)	1	0	0	1	1
<i>Searsia longispina</i> (Eckl. & Zeyh.) Moffett	AM0243 (JRAU)	1	1	0	0	0
<i>Searsia lucida</i> (L.) F.A. Barkley	Abbott9230	1	1	0	0	0
<i>Searsia magalismontana</i> (Sond.) Moffett	OM1836 (JRAU)	1	1	1	1	0
<i>Searsia natalensis</i> (Bernh. ex C. Krauss) F.A. Barkley	JKM&AMM436 (EAH)	0	1	1	1	1
<i>Searsia pendulina</i> (Jacq.) Moffett	OM1984 (JRAU)	1	1	0	0	0

<i>Searsia pondoensis</i> (Schönland) Moffett	Burrows10242 (BNRH)	1	1		0	0	0
<i>Searsia pygmaea</i> (Moffett) Moffett	Burrows7355 (BNRH)	1	0		0	0	0
<i>Searsia pyroides</i> (Burch.) Moffett var. <i>pyroides</i>	OM1236 (JRAU)	1	1		1	1	0
<i>Searsia pyroides</i> var. <i>integrifolia</i> (Engl.) Moffett	OM2477 (JRAU)	1	1		1	1	0
<i>Searsia tenuinervis</i> (Engl.) Moffett	AMM,GM&JKM 7478 (EAH)	1	0	0.48	0	1	0
<i>Searsia transvaalensis</i> (Engl.) Moffett	RL1427 (JRAU)	1	1		0	0	0
<i>Searsia tumulicola</i> (S. Moore) Moffett var. <i>tumulicola</i>	OM3813 (BNRH)	1	1		0	0	1
<i>Searsia tumulicola</i> var. <i>meeuseana</i> (R. Fern. & A. Fern.) Moffett	OM3818 (BNRH)	1	1		0	0	1
<i>Searsia undulata</i> (Jacq.) T.S. Yi, A.J. Mill. & J.Wen	OM2940 (JRAU)	1	1		0	0	0
<i>Searsia wilmsii</i> (Diels) Moffett	OM3910 (BNRH)	1	1		0	0	1
<i>Searsia zeyheri</i> (Sond.) Moffett	OM2256 (JRAU)	1	1		0	0	0
<i>Secamone attenuifolia</i> Goyder	AMM,GM&JKM 7474 (EAH)	1	1		0	0	0
<i>Securidaca longipedunculata</i> Fresen.	OM3358 (JRAU)	1	1		0	0	0
<i>Securidaca welwitschii</i> Oliv.	Sewel2887	1	0	0.44	0	1	0
<i>Seemannaralia gerrardii</i> (Seem.) Harms	MWC28187 (K)	1	1		0	0	1
<i>Acacia adenocalyx</i> (Brenan & Exell) Kyal. & Boatwr.	Seade2439	1	1	0.49	0	0	1
<i>Acacia burkei</i> (Benth.) Kyal. & Boatwr.	Sebur1479	1	1	1.47	0	0	1
<i>Acacia galpinii</i> (Burt Davy) Seigler & Ebinger	Segal1304	1	1	0.49	0	0	1
<i>Acacia senegal</i> (L.) Britton	JKM,AMM&GM460 (EAH)	0	1		1	0	0
<i>Senna obtusifolia</i> (L.) H.S. Irwin & Barneby	Seobt23038	1	0	0.96	1	0	0
<i>Senna petersiana</i> (Bolle) Lock	OM2515 (JRAU)	1	1		0	0	1
<i>Senna septemtrionalis</i> (Viv.) H. S. Irwin & Barneby	JKM,GM&AMM661 (EAH)	1	1		1	0	0

<i>Senna</i> sp.	JKM,GM&AM617 (EAH)	1	1		0	0	0
<i>Sericanthe andongensis</i> (Hiern) Robbr.	Burrows12149	1	1		0	0	0
<i>Sericanthe suffruticosa</i> (Hutch.) Robbr.	Burrows13504	1	1		0	0	0
<i>Sericostachys scandens</i> Gilg & Lopr.	Sescas.n.	1	0		1	1	0
<i>Seriphium kilimandscharicum</i> (O. Hoffm.) Koekemoer	Stkil898	1	0		0	0	0
<i>Sesamothamnus lugardii</i> N.E. Br. ex Stapf	OM1622 (JRAU)	1	1		0	0	0
<i>Sesbania macrantha</i> Welw. ex E. Phillips & Hutch.	JKM542 (EAH)	0	1		0	0	1
<i>Sesbania punicea</i> (Cav.) Benth.	OM3472	1	0		0	1	0
<i>Shirakiopsis elliptica</i> (Hochst.) Esser	OM1843 (JRAU)	1	1		0	0	0
<i>Sibangea similis</i> (Hutch.) Radcl.-Sm.	PM5389	1	0		0	0	0
<i>Sida acuta</i> Burm.f.	JKM489 (EAH)	0	1		1	1	0
<i>Sideroxylon inerme</i> L.	OM0266 (JRAU)	1	1	7.54	0	0	1
<i>Simirestis goetzei</i> (Loes.) N. Hallé ex R. Wilczek	Sigoe85491	0	1		1	1	0
<i>Smelophyllum capense</i> (Sond.) Radlk.	KE506 (JCT)	1	1		0	0	0
<i>Smilax anceps</i> Willd.	SmancFCX	0	1		1	1	0
<i>Smilax aspera</i> L.	SmaspFCX	0	1	0.74	0	1	0
<i>Solanecio angulatus</i> (Vahl) C. Jeffrey	Soang42314	1	1		1	1	1
<i>Solanecio mannii</i> (Hook. f.) C. Jeffrey	Knox 555 (L)	1	1		0	1	1
<i>Solanum campylacanthum</i> A. Rich.	Socam12114	1	1		1	1	1
<i>Solanum campylacanthum</i> A. Rich.	Sopan326	1	1		0	0	0
<i>Solanum catombelense</i> Peyr.	OM0934 (JRAU)	1	1	0.53	0	0	1
<i>Solanum giganteum</i> Jacq.	Abbott9142 (BNRH)	1	1	0.55	0	1	0
<i>Solanum hastifolium</i> Hochst. ex Dunal	Sohas21814	1	1		1	1	0
<i>Solanum incanum</i> L.	AMM&JKM7490 (EAH)	1	0		1	0	1
<i>Solanum lichtensteinii</i> Willd.	OM1904 (JRAU)	1	1		0	0	1
<i>Solanum mauritianum</i> Scop.	JKM916 (EAH)	1	1		0	0	0

<i>Solanum</i> sp.	JKM&AMM568 (EAH)	1	0		1	0	0
<i>Solanum taitense</i> Vatke	Sotai23914	0	0		0	0	0
<i>Solanum tettense</i> var. <i>renschii</i> (Vatke) A. E. Gonç.	JKM592 (EAH)	0	1		0	0	0
<i>Sonneratia alba</i> Sm.	n.a.	1	0	70.6	0	0	1
<i>Sophora inhambanensis</i> Klotzsch	OM4026	1	1	0.47	0	0	1
<i>Sophora tomentosa</i> L.	Burrows12889	1	1	0.47	0	0	1
<i>Sorindeia juglandifolia</i> (A. Rich.) Planch. ex Oliv.	PM4827	1	1		0	0	0
<i>Soyauxia floribunda</i> Hutch.	PM4865	1	1		0	0	0
<i>Sparrmannia africana</i> L.f.	Alverson 4000 (WIS)	0	1		0	0	0
<i>Spathodea campanulata</i> P. Beauv.	Spcam00073	1	1	1.18	0	1	0
<i>Spirostachys africana</i> Sond.	OM2396 (JRAU)	1	1		1	0	1
<i>Stadmannia oppositifolia</i> Lam.	OM0863 (JRAU)	1	1		0	0	0
<i>Stangeria eriopus</i> (Kunze) Baill.	PR706 (JRAU)	1	1		0	0	0
<i>Staudtia kamerunensis</i> Warb.	SIMAB 030526	1	1		0	0	0
<i>Steganotaenia araliacea</i> Hochst.	OM2540 (JRAU)	1	1		1	1	0
<i>Sterculia africana</i> (Lour.) Fiori	OM2362 (JRAU)	1	1		1	0	0
<i>Sterculia alexandri</i> Harv.	OM1864 (JRAU)	1	1		0	0	0
<i>Sterculia appendiculata</i> K.Schum	OM2360 (JRAU)	1	1		1	0	0
<i>Sterculia murex</i> Hemsl.	OM1133 (JRAU)	1	1		0	0	0
<i>Sterculia quinqueloba</i> (Garcke) K.Schum.	OM2314 (JRAU)	1	1		0	0	0
<i>Sterculia rogersii</i> N.E.Br.	OM1227 (JRAU)	1	1		0	0	0
<i>Sterculia stenocarpa</i> H.J.P.Winkl	JKM&AMM455 (EAH)	0	1	1.47	1	0	0
<i>Stereospermum kunthianum</i> Cham.	OM2086 (JRAU)	1	1		1	1	1
<i>Stirtonanthus chrysanthus</i> (Adamson) B.-E. van Wyk & A. L. Schutte	JWB006	1	1		0	0	0
<i>Stoeberia utilis</i> (L. Bolus) Van Jaarsv.	AM0034 (JRAU)	1	1		0	0	0

<i>Streblus</i> sp.	StGeban	0	1		1	0	1
<i>Strelitzia alba</i> (L. f.) Skeels	Pedersen1154 (C)	0	1		0	0	0
<i>Strelitzia nicolai</i> Regel & Körn.	OM1678 (JRAU)	1	1		0	0	0
<i>Strephonema mannii</i> Hook. f.	Philippe 022	1	0		0	0	0
<i>Strephonema pseudocolum</i> A.Chev.	PM4886	1	1		0	0	0
<i>Strombosia pustulata</i> Oliv.	Philippe 112	1	1		0	0	0
<i>Strombosia scheffleri</i> Engl.	PM5151	1	1		0	0	0
<i>Strombosia scheffleri</i> Engl.	StschGeban	1	1		0	0	0
<i>Strombosiosis sereinii</i> Breteler	Philippe 092	1	0		0	0	0
<i>Strombosiosis tetrandra</i> Engl.	Philippe 003	1	0		0	0	0
<i>Strophanthus courmontii</i> Sacleux ex Franch.	OM3958	1	1		0	0	0
<i>Strophanthus kombe</i> Oliv.	OM2111 (JRAU)	1	1		0	0	0
<i>Strophanthus petersianus</i> Klotzsch	OM1616 (JRAU)	1	1	0.47	0	0	1
<i>Strophanthus speciosus</i> (Ward & Harv.) Reber	Abbott9180 (BNRH)	1	1		0	0	0
<i>Strychnos cocculoides</i> Baker	HG4080 (JRAU)	1	1		1	0	1
<i>Strychnos decussata</i> (Pappe) Gilg	OM1259 (JRAU)	1	0	0.51	0	0	1
<i>Strychnos henningsii</i> Gilg	JKM 635 (EAH)	0	1		0	0	1
<i>Strychnos innocua</i> Delile	Burrows13501	1	1		1	1	1
<i>Strychnos madagascariensis</i> Poir.	Stger3722	0	1		0	0	0
<i>Strychnos madagascariensis</i> Poir.	OM2443 (JRAU)	1	1	0.49	0	0	1
<i>Strychnos mitis</i> S. Moore	OM1870 (JRAU)	0	1	0.51	1	0	0
<i>Strychnos myrtoides</i> Gilg & Busse	Burrows11377	1	1		0	0	0
<i>Strychnos panganensis</i> Gilg	OM2646 (JRAU)	1	1	0.51	0	0	1
<i>Strychnos potatorum</i> L. f.	OM2390 (JRAU)	1	1		0	1	0
<i>Strychnos pungens</i> Soler.	MvdB0022 (JRAU)	1	1		0	0	0
<i>Strychnos spinosa</i> Lam.	OM2438 (JRAU)	1	1		0	0	1
<i>Strychnos usambarensis</i> Gilg	OM2593 (JRAU)	1	1		1	0	1
<i>Strychnos xantha</i> Leeuwenb.	OM2756 (JRAU)	1	1		0	0	0

<i>Stylosanthes fruticosa</i> (Retz.) Alston	JKM624 (EAH)	1	0		1	1	1
<i>Suregada africana</i> (Sond.) Kuntze	OM1839 (JRAU)	1	1		0	0	0
<i>Suregada procera</i> (Prain) Croizat	OM1829 (JRAU)	1	1		1	0	1
<i>Suregada zanzibariensis</i> Baill.	OM1845 (JRAU)	1	1	1.02	0	0	1
<i>Suriana maritima</i> L.	Burrows12887	1	1	3.18	0	0	1
<i>Symphonia globulifera</i> L. f.	PM4935	1	1		0	0	0
<i>Synaptolepis alternifolia</i> Oliv.	OM2747 (JRAU)	1	1	0.51	0	0	1
<i>Synaptolepis oliveriana</i> Gilg	OM36921	1	1	0.51	0	0	1
<i>Syncolostemon albiflorus</i> (N.E. Br.) D. F. Otieno	OM2021 (JRAU)	0	1		0	0	0
<i>Synsepalum brevipes</i> (Baker) T. D. Penn.	OM2694 (JRAU)	1	1		1	0	0
<i>Synsepalum passargei</i> (Engl.) T. D. Penn.	OM1879 (JRAU)	1	1		0	0	0
<i>Synsepalum stipulatum</i> (Radlk.) Engl.	PM5227	1	0		0	0	0
<i>Syzygium cordatum</i> Hochst. ex Krauss	OM1470 (JRAU)	1	1		0	0	0
<i>Syzygium gerrardii</i> (Harv. ex Hook.f.) Burt Davy	OM1799 (JRAU)	1	1		0	0	0
<i>Syzygium guineense</i> (Willd.) DC. subsp. guineense	Syguig37683	1	0		1	1	1
<i>Syzygium guineense</i> subsp. <i>barotsense</i> F. White	MWC37689 (K)	1	0		0	0	0
<i>Syzygium guineense</i> subsp. <i>macrocarpum</i> (Engl.) F. White	MWC37688 (K)	1	0		0	0	0
<i>Syzygium guineense</i> var. <i>afromontana</i> F. White	Syguia2297	1	0	0.5	0	1	0
<i>Syzygium legatii</i> Burt Davy & Greenway	OM1792 (JRAU)	1	1		0	0	1
<i>Syzygium masukuense</i> subsp. <i>pachyphyllum</i>	Gadek s.n. (JCT)	0	1		0	0	1
<i>Syzygium pondoense</i> Engl.	OM1798 (JRAU)	1	1		0	0	1
<i>Syzygium rowlandii</i> Sprague	PM4951	1	0		0	0	0
<i>Syzygium staudtii</i> (Engl.) Mildbr.	SIMAB 011301	1	0	2.68	0	1	0
<i>Tabernaemontana brachyantha</i> Stapf	PM4810	1	1		0	0	0
<i>Tabernaemontana crassa</i> Benth.	PM4864	1	1		0	0	0
<i>Tabernaemontana elegans</i> Stapf	OM2144 (JRAU)	1	1	1.75	0	0	1

<i>Tabernaemontana pachysiphon</i> Stapf	Tapac1325	1	1		0	0	1
<i>Tabernaemontana ventricosa</i> Hochst. ex A. DC.	OM2235 (JRAU)	1	1		1	0	1
<i>Tacazzea apiculata</i> Oliv.	Venter9188 (TL)	1	1		0	1	1
<i>Talbotiella korupensis</i> Mackinder & Wieringa	PM4893	1	1		0	0	0
<i>Talinum portulacifolium</i> (Forssk.) Asch. ex Schweinf.	JKM,GM&AMM449 (EAH)	1	0		1	1	1
<i>Talipariti tiliaceus</i> (L.) Fryxell	Hitil25101	1	0	0.48	0	0	1
<i>Tamarix usneoides</i> E. Mey. ex Bunge	MWC28701 (K)	1	1		0	0	0
<i>Tannodia swynnertonii</i> (S. Moore) Prain	OM1858 (JRAU)	1	1		0	0	0
<i>Tapiphyllum burnettii</i> Tennant	Burrows12568	1	1		0	0	0
<i>Tapiphyllum cinerascens</i> (Welw. ex Hiern) Robyn	Burrows13417	1	0		0	0	0
<i>Tapiphyllum cinerascens</i> subsp. <i>laevius</i> (K. Schum.) Verdc.	Burrows11141	1	0		0	0	0
<i>Tapiphyllum cinerascens</i> var. <i>laetum</i> (Robyns) Verdc.	OM4141	1	0		0	0	0
<i>Tapiphyllum discolor</i> (De Wild.) Robyns	Burrows12183	1	1		0	0	0
<i>Tapiphyllum velutinum</i> (Hiern) Robyns	OM3830	1	1		0	0	0
<i>Tapura africana</i> Oliv.	PM5117	1	0		0	0	0
<i>Tapura fischeri</i> Engl.	OM3496 (JRAU)	1	0	0.5	1	0	0
<i>Tarchonanthus camphoratus</i> L.	OM1515 (JRAU)	1	1		1	1	0
<i>Tarchonanthus trilobus</i> DC.	OM3270 (JRAU)	1	1		0	0	0
<i>Tarchonanthus trilobus</i> var. <i>galpinii</i> (Hutch. & E. Phillips) Paiva	OM3830	1	1		0	0	0
<i>Tarena burtii</i> Bridson	Tebur23917	0	1		0	0	0
<i>Tarena drummondii</i> Bridson	JKM860 (EAH)	1	1	1.98	0	0	1
<i>Tarena longipedicellata</i> (J. G. García) Bridson	Burrows12819	1	1	1.48	0	0	1
<i>Tarena pavettoides</i> (Harv.) Sim	JKM655 (EAH)	1	0		0	0	1
<i>Tecoma capensis</i> (Thunb.) Lindl.	OM0454 (JRAU)	1	1		0	1	0
<i>Tennantia sennii</i> (Chiov.) Verdc. & Bridson	Tesen8357	0	1	11.57	0	1	0

<i>Tephrosia drepanocarpa</i> Welw. ex Baker	JKM&AMM494 (EAH)	0	1	1.31	1	0	0
<i>Tephrosia emeroides</i> A. Rich.	Teem137915	1	1		1	1	0
<i>Tephrosia hildebrandtii</i> Vatke	Tehil627	1	0	0.48	1	0	0
<i>Tephrosia pondoensis</i> (Codd) Schrire	Abbott9232 (BNRH)	1	1		0	0	0
<i>Tephrosia purpurea</i> (L.) Pers.	JKM&AMM495 (EAH)	0	1		1	0	1
<i>Tephrosia vogelii</i> Hook. f.	TevogTVg	0	1		0	1	0
<i>Terminalia boivinii</i> Tul.	TeboiGeban	1	1	1.05	0	0	1
<i>Terminalia brachystemma</i> Welw. ex Hiern	OM&MvdB18 (JRAU)	1	1		0	0	0
<i>Terminalia brownii</i> Fresen.	JG72	0	1	0.5	1	0	0
<i>Terminalia catappa</i> L.	Tecat25029	1	1	1.01	1	0	0
<i>Terminalia mollis</i> M. A. Lawson	OM1032 (JRAU)	1	1		0	0	0
<i>Terminalia phanerophlebia</i> Engl. & Diels	OM1191 (JRAU)	1	1		0	0	0
<i>Terminalia prunioides</i> M. A. Lawson	OM1061 (JRAU)	1	1		1	0	1
<i>Terminalia randii</i> Baker f.	OM2115 (JRAU)	1	1		0	0	0
<i>Terminalia sambesiaca</i> Engl. & Diels	OM2392 (JRAU)	1	1		1	0	1
<i>Terminalia sericea</i> Burch. ex DC.	OM1037 (JRAU)	1	1		0	0	1
<i>Terminalia stenostachya</i> Engl. & Diels	OM2059 (JRAU)	1	1		0	0	1
<i>Terminalia trichopoda</i> Diels	OM1657 (JRAU)	1	1	0.5	1	0	0
<i>Tetracera boiviniana</i> Baill.	Burrows9126 (BNRH)	1	0	0.22	0	0	1
<i>Tetracera masuiana</i> De Wild. & T. Durand	Burrows11174 (BNRH)	1	1		0	0	0
<i>Tetradenia riparia</i> (Hochst.) Codd	OM0881 (JRAU)	1	0	3.42	1	0	0
<i>Thecacoris</i> sp.	PM4921	1	1		0	0	0
<i>Thecacoris usambarensis</i> Verdc.	JKM884 (EAH)	1	1		0	0	0
<i>Thespesia acutiloba</i> (Baker f.) Exell &	OM2492 (JRAU)	1	1		0	0	0
<i>Thespesia garckeana</i> F. Hoffm.	JKM416 (EAH)	1	1		1	0	1

<i>Thespesia mossambicensis</i> (Exell & Hillc.) Fryxell	Burrows12837	1	1	0.48	0	0	1
<i>Thilachium africanum</i> Lour.	OM2549 (JRAU)	1	1		0	0	1
<i>Tiliacora funifera</i> Oliv.	OM2328 (JRAU)	1	1		1	1	0
<i>Tinnea aethiopica</i> Kotschy ex Hook. f.	Tiaet37114	1	1		1	0	1
<i>Tinnea barbata</i> Vollesen	OM2288 (JRAU)	1	1		0	0	1
<i>Tinnea rhodesiana</i> S. Moore	RBN143 (KNP)	1	1		0	0	0
<i>Tinospora caffra</i> (Miers) Troupin	OM2373 (JRAU)	1	1	0.58	1	0	0
<i>Tinospora tenera</i> Miers	OM1369 (JRAU)	1	1		0	0	0
<i>Toddalia asiatica</i> (L.) Lam.	OM2688 (JRAU)	1	1		0	0	0
<i>Toussaintia orientalis</i> Verdc.	Toori1957	1	1	3.22	0	0	1
<i>Treculia acuminata</i> Baill.	PM5014	1	1		0	0	0
<i>Treculia Africana</i> Decne. ex Trécu	PM5035	1	1		0	0	0
<i>Treculia obovoidea</i> N.E.Br.	SIMAB 012015	1	1		0	0	0
<i>Trema orientalis</i> (L.) Blume	OM2500 (JRAU)	1	1		1	1	1
<i>Triainolepis sancta</i> Verdc.	OM4022	1	1	0.97	0	0	1
<i>Triaspis glaucophylla</i> Engl.	OM2003 (JRAU)	1	1		0	0	0
<i>Triaspis hypericoides</i> subsp. <i>nelsonii</i> (Oliv.) Immelman	OM1336 (JRAU)	1	1		0	0	0
<i>Triaspis macropteron</i> subsp. <i>massaiensis</i> (Nied.) Launert	Burrows12191	1	1		0	0	0
<i>Tricalysia achoundongiana</i> Robbr., Sonké & Kenfack	P4805	1	1		0	0	0
<i>Tricalysia bridsoniana</i> Robbr.	Trbri9463	0	1		0	0	0
<i>Tricalysia capensis</i> (Meisn. ex Hochst.) Sim	Abbott9182 (BNRH)	1	1		0	0	0
<i>Tricalysia coriacea</i> (Benth.) Hiern subsp. <i>Angustifolia</i>	OM1842 (BNRH)	1	1		0	0	0
<i>Tricalysia delagoensis</i> Schinz	MWC24252 (K)	1	1		0	0	0
<i>Tricalysia griseiflora</i> var. <i>barotseana</i> Robbr.	Burrows13410	1	1		0	0	0

<i>Tricalysia jasminiflora</i> (Klotzsch) Benth. & Hook. f. ex Hiern	OM2340 (JRAU)	1	1		0	0	0
<i>Tricalysia microphylla</i> Hiern	Trmic62	0	1		0	0	0
<i>Tricalysia niamniamensis</i> Schweinf. ex Hiern	Trnia9001	0	1		0	1	0
<i>Tricalysia pallens</i> Hiern	Philippe 042	1	1		0	0	0
<i>Trichilia capitata</i> Klotzsch	OM2460 (JRAU)	1	1		0	0	1
<i>Trichilia dregeana</i> Sond.	OM1793 (JRAU)	1	1		0	1	1
<i>Trichilia emetica</i> Vahl	OM2103 (JRAU)	1	1		0	1	0
<i>Trichilia prieuriana</i> A.Juss.	PM5108	1	1	1	0	1	0
<i>Trichocladus crinitus</i> (Thunb.) Pers.	OM1767 (JRAU)	1	1		0	0	0
<i>Trichocladus ellipticus</i> Eckl. & Zeyh. subsp. <i>Ellipticus</i>	Abbott9189 (BNRH)	1	1		1	1	0
<i>Trichocladus grandiflorus</i> Oliv.	Abbott9207 (BNRH)	1	1		0	0	1
<i>Trichoscypha acuminata</i> Engl.	Philippe 104	1	1		0	0	0
<i>Trichoscypha arborea</i> (A. Chev.) A. Chev.	Philippe 136	1	1		0	0	0
<i>Trichoscypha bijuga</i> Engl.	TrpreGeba	1	1		0	0	0
<i>Trichoscypha patens</i> (Oliv.) Engl.	PM4897	1	1		0	0	0
<i>Trichoscypha rubicunda</i> Lecomte	TrklaGeba	1	0		0	0	0
<i>Trilepisium madagascariense</i> DC.	Burrows07687	1	1		0	0	0
<i>Trimeria grandifolia</i> (Hochst.) Warb. subsp. <i>Grandifolia</i>	OM1549 (JRAU)	1	1		1	0	0
<i>Triplochiton zambesiacus</i> Milne-Redh.	OM2124 (JRAU)	1	1		0	0	0
<i>Tristellateia africana</i> S. Moore	Trafr99	1	1	1.83	0	0	1
<i>Triumfetta flavescens</i> Hochst. ex A.Rich.	JKM&AMM 411 (EAH)	1	1		0	0	0
<i>Triumfetta rhomboidea</i> Jacq.	Trrho08784	1	0		1	1	1
<i>Turraea mombassana</i> Hiern ex C.DC.	Tumom06214	1	1		1	0	1
<i>Turraea nilotica</i> Kotschy & Peyr.	OM1491 (JRAU)	1	1		0	0	1
<i>Turraea obtusifolia</i> Hochst.	OM0744 (JRAU)	1	1		0	0	0
<i>Turraea robusta</i> Gürke	Burrows11420	1	1		0	0	0

<i>Turraea wakefieldii</i> Oliv.	Burrows08596	1	1		0	0	0
<i>Turraeanthus mannii</i> Baill	PM4875	1	1		0	0	0
<i>Tylecodon paniculatus</i> (L. f.) Toelken	JWB508 (NH)	1	1		0	0	0
<i>Uapaca kirkiana</i> Müll. Arg.	OM4089	1	0		0	0	1
<i>Uapaca lissopyrena</i> Radcl.-Sm.	UaguiGeban	1	0		0	0	0
<i>Uapaca nitida</i> Müll. Arg.	OM2623 (BNRH)	1	0		0	0	0
<i>Uapaca pilosa</i> Hutch. var. <i>pilosa</i>	OM4150	1	0		0	0	0
<i>Uapaca sansibarica</i> Pax	OM2614 (BNRH)	1	0		1	0	1
<i>Uapaca staudtii</i> Pax	PM4817	1	0		0	0	0
<i>Umtiza listeriana</i> Sim	OM1802 (JRAU)	1	1		0	0	0
<i>Uncaria africana</i> G. Don	Unafr304	1	0		0	1	1
<i>Urera sansibarica</i> Engl.	Ursan519	0	1	0.53	0	0	1
<i>Urera trinervis</i> (Hochst.) Friis & Immelman	Abbott9169 (BNRH)	0	0		0	0	1
<i>Uvaria acuminata</i> Oliv.	Beentje2341	1	1	0.46	0	0	1
<i>Uvaria caffra</i> E. Mey. ex Sond.	RBN148 (KNP)	1	1		0	0	0
<i>Uvaria faulknerae</i> Verdc.	Couvreur73	1	1	0.91	0	0	1
<i>Uvaria gracilipes</i> N. Robson	RBN365 (KNP)	1	1		0	0	0
<i>Uvaria leptoclada</i> Oliv.	Couvreur22	1	1		0	0	1
<i>Uvaria lucida</i> Benth.	OM1863 (JRAU)	1	1		0	0	1
<i>Uvaria scheffleri</i> Diels	JKM590 (EAH)	1	0		1	1	1
<i>Uvaria welwitschii</i> (Hiern) Engl. & Diels	JKM865 (EAH)	1	1	0.47	0	0	1
<i>Uvariastrum zenkeri</i> Engl. & Diels	UvpynGeban	1	1		0	0	0
<i>Uvariadendron connivens</i> (Benth.) R.E. Fr.	PM4812	1	1		0	0	0
<i>Uvariadendron kirkii</i> Verdc.	AMM7550 (EAH)	1	1	0.56	0	0	1
<i>Uvariopsis bakeriana</i> (Hutch. & Dalziel) Robyns & Ghesq.	PM5373	1	1		0	0	0
<i>Uvariopsis korupensis</i> Gereau & Kenfack	PM4811	1	1		0	0	0
<i>Vaccinium exul</i> Bolus	MWC27036 (K)	1	1		0	0	0
<i>Vachellia arenaria</i> (Schinz) Kyal. & Boatwr.	OM1048 (JRAU)	1	1		0	0	0

<i>Vachellia borleae</i> (Burt Davy) Kyal. & Boatwr.	OM1902 (JRAU)	1	1		0	0	1
<i>Vachellia davyi</i> (N.E.Br.) Kyal. & Boatwr.	RL1315 (JRAU)	1	1		0	0	0
<i>Vachellia dyeri</i> (P.P.Sw. ex Coates Palgr.) Kyal. & Boatwr	RL1309 (JRAU)	1	1		0	0	0
<i>Vachellia erioloba</i> (E.Mey.) P.J.H.Hurter.	RL1298 (JRAU)	1	1		0	0	0
<i>Vachellia etbaica</i> (Schweinf.) Kyal. & Boatwr.	UHURU1214	1	1		1	0	1
<i>Vachellia farnesiana</i> (L.) Wight & Arn..	PMMGeba (EAH)	0	1		0	0	0
<i>Vachellia gerrardii</i> (Benth.) P.J.H.Hurter	PMMAcage(EAH)	0	0	0.49	1	0	0
<i>Vachellia grandicornuta</i> (Gerstner) Seigler & Ebinger	RL1286 (JRAU)	1	1		0	0	0
<i>Vachellia hebeclada</i> (DC.) Kyal. & Boatwr.	RL1317 (JRAU)	1	1		0	0	0
<i>Vachellia hebeclada</i> ssp. <i>chobiensis</i> (DC.) Kyal. & Boatwr.	OM1034 (JRAU)	1	1		0	0	0
	JKM&AMM540						
<i>Vachellia hockii</i> (De Wild.) Seigler & Ebinger	(EAH)	1	0		1	0	1
<i>Vachellia karroo</i> (Hayne) Banfi & Glasso	OM3013 (JRAU)	1	1		0	0	0
<i>Vachellia kirkii</i> (Oliv.) Kyal. & Boatwr.	RL1307 (JRAU)	1	1		1	0	0
<i>Vachellia kosiensis</i> (P.P.Sw. ex Coates Palgr.) Kyal. & Boatwr	RL1305 (JRAU)	1	1		0	0	0
<i>Vachellia luederitzii</i> (Engl.) Kyal. & Boatwr.	RL1500 (JRAU)	1	1		0	0	0
<i>Vachellia luederitzii</i> (Engl.) Kyal. & Boatwr. var. <i>retinens</i> (Sim) & Kyal. & Boatwr	RL1285 (JRAU)	1	1		0	0	0
<i>Vachellia natalitia</i> (E.Mey.) Kyal. & Boatwr	RL1330 (JRAU)	1	1		0	0	0
<i>Vachellia nebrownii</i> (Burt Davy) Seigler & Ebinger	OM1050 (JRAU)	1	1		0	0	0
<i>Vachellia nilotica</i> (L.) P.J.H. Hurter & Mabb. subsp. <i>kraussiana</i> (Benth) Kyal. & Boatwr.	RL1302 (JRAU)	1	1		1	0	1
<i>Vachellia nilotica</i> subsp. <i>leiocarpa</i> (Brenan) Kyal. & Boatwr	AMM7506 (EAH)	1	0		1	0	1
<i>Vachellia ormocarpoides</i> (P.J.H. Hurter) Kyal. & Boatwr.	RL1293 (JRAU)	1	1		0	0	0
<i>Vachellia permixta</i> (Burt Davy) Kyal. & Boatwr.	Johan2 (JRAU)	0	1		0	0	0

<i>Vachellia reficiens</i> (Wawra & Peyr.) Kyal. & Boatwr.	PMMAcare (EAH)	1	1		1	0	1
<i>Vachellia rehmanniana</i> (Schinz) Kyal. & Boatwr.	RL1288 (JRAU)	1	1		0	0	0
<i>Vachellia robbertsei</i> (P.P.Sw. ex Coates Palgr.) Kyal. & Boatwr.	RL1289 (JRAU)	1	0		0	0	0
<i>Vachellia robusta</i> (Taub.) Kyal. & Boatwr.	JKM&AMM443 (EAH)	1	0		1	0	1
<i>Vachellia robusta</i> subsp. <i>usambarensis</i> (Taub.) Kyal. & Boatwr.	JKM608 (EAH)	0	1		1	0	1
<i>Vachellia sekhukhuniensis</i> (P.J.H.Hurter) Kyal. & Boatwr.	RL1296 (JRAU)	1	1		0	0	0
<i>Vachellia sieberiana</i> (DC.) Kyal. & Boatwr	OM1029 (JRAU)	1	1		1	0	1
<i>Vachellia sieberiana</i> var. <i>woodii</i> (Burt Davy) Kyal. & Boatwr.	OM0966 (JRAU)	1	1		1	0	1
<i>Vachellia stuhlmannii</i> (Taub.) Kyal. & Boatwr.	RL1294 (JRAU)	1	1		1	0	1
<i>Vachellia swazica</i> (Burt Davy) Kyal. & Boatwr.	RL1327 (JRAU)	1	1	1.97	0	0	1
<i>Vachellia torrei</i> (Brenan) Kyal. & Boatwr.	OM2429 (JRAU)	1	1	1.48	0	0	1
<i>Vachellia tortilis</i> subsp. <i>heteracantha</i> (Burch.) Kyal. & Boatwr.	RL1337 (JRAU)	1	1		1	0	1
<i>Vachellia tortilis</i> subsp. <i>spirocarpa</i> (Hochst. ex A.Rich.) Kyal. & Boatwr.	AMM7488 (EAH)	1	0		1	0	1
<i>Vachellia xanthophloea</i> (Benth.) Banfi & Galasso	OM2579 (JRAU)	1	1	0.49	1	0	0
<i>Vangueria bowkeri</i> (Robyns) Lantz	OM3841 (BNRH)	1	1		0	0	0
<i>Vangueria coerulea</i> (Robyns) Lantz	Vacoe9297	1	1		0	0	0
<i>Vangueria esculenta</i> S. Moore	OM2435 (JRAU)	1	1		0	0	0
<i>Vangueria infausta</i> Burch.	JKM549 (EAH)	1	1		1	1	0
<i>Vangueria madagascariensis</i> J. F. Gmel.	OM2018 (JRAU)	1	1		1	1	0
<i>Vangueria parvifolia</i> Sond.	MvdB0040 (JRAU)	1	1		0	0	0
<i>Vangueria randii</i> S.Moore var. <i>randii</i>	OM3751 (JRAU)	1	1		0	0	0
<i>Vangueria randii</i> subsp. <i>vollesenii</i> Verdc.	OM3589	1	1		0	0	0

<i>Vangueria thamnus</i> (Robyns) Lantz	Maserumule121 (BNRH)	0	1		0	0	0
<i>Vangueria volkensii</i> K. Schum.	JKM649 (EAH)	0	1		1	1	0
<i>Vangueriospsis lanciflora</i>	OM1659 (JRAU)	1	0		0	0	0
<i>Vepris bachmannii</i> (Engl.) Mziray	Orbac2168	1	1		0	0	0
<i>Vepris bremekampii</i> (l. Verd.) Mziray	Tobre366	1	0		0	0	0
<i>Vepris carringtoniana</i> Mendonça	Burrows11638	1	1		0	0	0
<i>Vepris eugeniifolia</i> (Engl.) l. Verd.	JKM600 (EAH)	0	1		1	0	0
<i>Vepris glomerata</i> (F. Hoffm.) Engl.	JKM632 (EAH)	1	1		1	1	0
<i>Vepris lanceolata</i> (Lam.) G. Don	OM3224 (JRAU)	1	1	1.03	0	0	1
<i>Vepris lecomteana</i> (Pierre) Cheek & T.Heller	OrlecGeban	1	0		0	0	0
<i>Vepris nobilis</i> (Delile) Mziray	Tenat9193	1	1		1	1	0
<i>Vepris nobilis</i> (Delile) Mziray	TenobTECLN	1	0		1	1	0
<i>Vepris reflexa</i> l. Verd.	OM1299 (JRAU)	1	1		0	0	1
<i>Vepris simplicifolia</i> (Engl.) Mziray	JKM603 (EAH)	1	0		1	1	0
<i>Vepris soyauxii</i> (Engl.) Mziray	PM5186	1	1		0	0	0
<i>Vepris trichocarpa</i> (Engl.) Mziray	Teger9183	1	1		0	0	1
<i>Vernonia fischeri</i> O. Hoffm.	JKM599 (EAH)	0	1	1.02	1	0	0
	Burrows12690 (JRAU)						
<i>Vernonia natalensis</i> Sch. Bip.		1	1		0	0	1
<i>Vernonia ruwenzoriensis</i> S. Moore	Velas138715	1	1		0	0	0
<i>Vigna vexillata</i> (L.) A. Rich.	JKM554 (EAH)	0	1		1	1	1
<i>Virgilia divaricata</i> Adamson	OM3169 (JRAU)	1	1		0	0	0
<i>Viscum combreticola</i> Engl.	JKM634 (EAH)	1	1		0	0	0
	Burrows12535 (BNRH)						
<i>Vismia orientalis</i> Engl.		1	0	2.99	0	0	1
<i>Vitellariopsis dispar</i> (N.E. Br.) Aubrév.	OM2178 (JRAU)	1	1		0	0	0
<i>Vitellariopsis kirkii</i> (Baker) Dubard	JKM887 (EAH)	1	0	0.49	0	0	1
<i>Vitex buchananii</i> Gürke	OM2751 (JRAU)	1	1		0	0	0

<i>Vitex doniana</i> Sweet	OM2615 (BNRH)	1	1		1	1	1
<i>Vitex ferruginea</i> ssp. <i>amboniensis</i> (Gürke) Verdc.	RBN141 (KNP)	1	1	0.5	0	0	1
<i>Vitex grandifolia</i> Gürke	PM5048	1	0		0	0	0
<i>Vitex harveyana</i> H. Pearson	OM1501 (JRAU)	1	1	1	0	0	1
<i>Vitex madiensis</i> subsp. <i>milanjiensis</i> (Britten) F. White	Burrows13486	1	1		0	1	0
<i>Vitex mombassae</i> Vatke	OM3570	1	1		0	0	1
<i>Vitex patula</i> E. A. Bruce	OM0839 (JRAU)	1	1		0	0	0
<i>Vitex petersiana</i> Klotzsch	OM2725 (JRAU)	1	1		0	0	0
<i>Vitex rehmannii</i> Gürke	RL1385 (JRAU)	1	1		0	0	1
<i>Vitex strickeri</i> Vatke & Hildebr.	JKM610 (EAH)	1	0	0.51	0	0	1
<i>Vitex zanzibarensis</i> Vatke	JKM869 (EAH)	1	0		0	0	0
<i>Vitex zeyheri</i> Sond. ex Schauer	K-0171	1	1		0	0	0
<i>Voacanga africana</i> Stapf	OM1876 (JRAU)	1	1		0	0	1
<i>Voacanga psilocalyx</i> Pierre ex Stapf	PM4841	1	1		0	0	0
<i>Voacanga thouarsii</i> Roem. & Schult.	Abbott9118 (BNRH)	1	1	0.47	0	1	0
<i>Volkameria eriophylla</i> (Gürke) Mabb. & Y. W. Yuan	JKM417 (EAH)	1	1	0.5	0	0	1
<i>Warburgia salutaris</i> (G. Bertol.) Chiov.	OM1853 (JRAU)	1	1	1.17	0	0	1
<i>Warburgia stuhlmannii</i> Engl.	Malombe301 (EAH)	0	1	0.55	0	0	1
<i>Warburgia ugandensis</i> Sprague	Malombe322 (EAH)	1	1	0.55	0	1	0
<i>Warneckea jasminoides</i> (Gilg) Jacq.-Fél.	PM4888	1	1		0	0	0
<i>Warneckea membranifolia</i> (Hook.f.) Jacq.-Fél.	PM5047	1	1		0	0	0
<i>Warneckea pulcherrima</i> (Gilg) Jacq.-Fél.	PM4818	1	1		0	0	0
<i>Warneckea sapinii</i> (De Wild.) Jacq.-Fél.	Burrows13442	1	1		0	0	0
<i>Widdringtonia nodiflora</i> (L.) Powrie	Hardy277 (Z,BH)	1	1		0	0	0
<i>Widdringtonia schwarzii</i> (Marloth) Mast.	UNSW23247 (SYD)	0	1		0	0	0
<i>Wielandia fadenii</i> (Radcl.-Sm.) Petra Hoffm. & McPherson	JKM866 (EAH)	1	1		0	0	0

<i>Withania somnifera</i> (L.) Dunal	UHURU39014	1	1		1	0	0
<i>Wrightia natalensis</i> Stapf	OM1580 (JRAU)	1	1		0	0	1
<i>Xanthocercis zambesiaca</i> (Baker) Dumaz-le-Grand	OM2735 (JRAU)	1	1		0	0	0
<i>Xerophyta retinervis</i> Baker	OM1591 (JRAU)	1	1		0	0	0
<i>Xerophyta spekei</i> Baker	JKM564 (EAH)	1	1		1	0	0
<i>Ximenia americana</i> L.	OM0299 (JRAU)	1	1		1	1	1
<i>Ximenia americana</i> var. <i>caffra</i> (Sond.) Engl.	Xicaf1182	1	1		1	0	1
<i>Xylia mendoncae</i> Torre	OM3927	1	1	0.45	0	0	1
<i>Xylia torreana</i> Brenan	OM2612 (JRAU)	1	1		0	0	0
<i>Xylocarpus granatum</i> J.Koenig	Xygra10764	1	1		0	0	0
<i>Xylocarpus moluccensis</i> (Lam.) M. Roem.	Burrows12892	1	1	0.49	0	0	1
<i>Xylopiia acutiflora</i> (Dunal) A. Rich.	PM4901	1	1		0	0	0
<i>Xylopiia aethiopica</i> (Dunal) A.Rich.	PM5594	1	1		0	0	1
<i>Xylopiia collina</i> Diels	Burrows10943	1	1	2.16	0	0	1
<i>Xylopiia parviflora</i> (A.Rich.) Benth.	RBN256	1	1		0	1	1
<i>Xylopiia tomentosa</i> Exell	Burrows13437	1	1		0	0	0
<i>Xylopiia torrei</i> N. Robson	Burrows11517	1	1	0.51	0	0	1
<i>Xylothea kraussiana</i> Hochst.	OM2210 (JRAU)	1	1	2.11	0	0	1
<i>Xylothea tettensis</i> (Klotzsch) Gilg	OM2370 (JRAU)	1	1		0	0	0
<i>Xymalos monospora</i> (Harv.) Baill.	OM1748 (JRAU)	1	1		1	0	0
<i>Zanha africana</i> (Radlk.) Exell	OM4122	1	0		1	0	0
<i>Zanha golungensis</i> Hiern	OM3944	1	1		1	0	0
<i>Zanthoxylum holtzianum</i> (Engl.) P.G. Waterman	Zahol2357	1	1	0.49	0	0	1
<i>Zanthoxylum capense</i> (Thunb.) Harv.	OM3231 (JRAU)	1	1		0	0	0
<i>Zanthoxylum chalybeum</i> Engl.	Zacha1300	1	0		1	1	1
<i>Zanthoxylum davyi</i> (I. Verd.) P.G. Waterman	Abbott9195 (BNRH)	1	1		0	0	0
<i>Zanthoxylum delagoense</i> P. G. Waterman	Burrows08089	1	1	2.01	0	0	1

<i>Zanthoxylum gillettii</i> (De Wild.) P. G. Waterman	PM5458	1	1	2.53	1	0	0
<i>Zanthoxylum humile</i> (E. A. Bruce) P. G. Waterman	OM0708 (JRAU)	1	1		0	0	1
<i>Zanthoxylum lepreurii</i> Guill. & Perr.	RBN131 (KNP)	1	1		0	0	0
<i>Zehneria anomala</i> C. Jeffrey	Zeano16503	1	1		1	1	0
<i>Zimmermannia ovata</i> E.A.Bruce	Ziova2909	0	1		0	0	0
<i>Ziziphus abyssinica</i> A.Rich.	JKM514 (EAH)	0	1		1	0	0
<i>Ziziphus mauritiana</i> Lam.	OM2037	1	1		1	0	1
<i>Ziziphus mucronata</i> Willd.	JKM420 (EAH)	1	1		1	0	1
<i>Ziziphus pubescens</i> Oliv.	OM2325 (JRAU)	1	1		1	0	0
<i>Ziziphus rivularis</i> Codd	OM1380 (JRAU)	1	1		0	0	0
<i>Ziziphus spina-christi</i> (L.) Desf.	Zispis.n.	1	0		1	0	1
<i>Ziziphus zeyheriana</i> Sond.	OM3913 (JRAU)	1	1		0	0	0

Appendix 6. Contribution to the co-authored publication

4/10/2021

To whom it may concern

We confirm that the first author of the listed article is the principal in the work done towards its actualization:

- 1) **Kimeu, J.M.**, Mwachala, G., Reichgelt, T. and Muasya, A.M. (2020) Characterization of alternative stable vegetation assemblages in a mesic savannah in Kenya. *African Journal of Ecology*. 58: 492–502.

Mr. Kimeu conceptualized and designed the research and independently ran the experiments and analyzed the data. He also wrote the manuscript and addressed the editorial comments. The co-author contributed to the work through providing specialist expertise, funds, facilities, supervision and comments and suggestions on the manuscript.

Yours faithfully,

PhD Supervisor Prof. A. Muthama Muasya

PhD Co-Supervisor Dr. Geoffrey Mwachala

Dr. T. Reichgelt