



The Biodiversity of Atewa Forest

Research Report



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Summary

We report the most comprehensive collation of species records for Atewa Forest, Ghana, that has been assembled to date in order to demonstrate the biological importance of the forest.

Compared with most forests in West Africa, Atewa Forest has been relatively well surveyed. Species richness is far higher for most classes of organisms than is known for most forests in Ghana. Plant richness, at over 1100 species, accounts for ca. 26% of Ghana's entire flora. Butterfly richness in Atewa Forest accounts for over 77% of Ghana's species. And over 30% of Ghana's bird species have been recorded in and around Atewa Forest.

The number of globally threatened species recorded in Atewa Forest is amongst the highest known for any forest in West Africa. Over 100 species in Atewa Forest are threatened or near-threatened with extinction. These include three Critically Endangered (CR) species. A further three species are likely to be assessed as CR in due course. Atewa Forest is home to 20% of all threatened species known to occur in Ghana. One plant, two butterflies and, pending publication, one frog are entirely endemic to Atewa Forest. At least nine species are named after Atewa Forest in their scientific name.

Despite this wealth of understanding much remains to be discovered. Although plants have been relatively well surveyed there remain gaps for some plant groups, there is little information about fungi, nor many invertebrate groups (besides butterflies, dragonflies, katydids and ants), and rather little for reptiles and even small mammals.

However, despite these limits to our knowledge, our findings reaffirm the high international priority there is for the conservation of Atewa Forest and the pressing need for the site to be fully protected as a National Park.



Introduction

Atewa Forest in the Eastern Region of Ghana is at the eastern end of the Upper Guinea forest eco-region. The Upper Guinea forest encompasses the humid forests of West Africa from Senegal east to the Dahomey Gap in Togo and Benin. The Upper Guinea forest eco-region is recognised as an area of high biological endemism, an Endemic Bird Area (Stattersfield *et al.* 1998), and a global biodiversity hotspot (Mittermeier *et al.* 2004), but it is highly threatened.

Within Ghana, Atewa Forest ranks as one of the most important forests in biological terms that remains unprotected. Although Atewa is designated as a Forest Reserve, it is subject to unmanaged logging, uncontrolled hunting, artisanal gold mining and, for many decades now, a threat to its existence from bauxite surface mining.

The ecological importance of Atewa Forest has been well-known for many decades. The forest was originally reserved nearly 100 years ago in order to protect the headwaters of three major rivers by preventing erosion caused by forest clearance for agriculture. The forest occupies a

ridge with steep slopes incised by fast-flowing rocky streams.

The special character of the forest's flora has been recognised at least since the 1970s when Hall and Swaine (1976) identified Atewa Forest as one of only two "Upland Evergreen" forests in Ghana. But it was nationwide botanical fieldwork in the early 1990s in order to review the protection strategy for all Ghana's Forest Reserves that heralded a new appreciation of Atewa Forest's biological importance. This led to a number of new designations for its management, ultimately as a Globally Significant Biodiversity Area. Subsequent ornithological fieldwork led to Atewa Forest's international designation as an Important Bird Area.

A major biological survey of Atewa Forest in 2006 was undertaken by Conservation International using their Rapid Assessment Programme method (McCullough *et al.* 2007) in response to an exploration license granted to the aluminium company ALCOA to prospect for bauxite in the Atewa hills. That survey combined the results of new field data collection with

information drawn from published sources and museum collections to present a comprehensive biological inventory of Atewa Forest. The assessment included all vertebrate groups (except reptiles), vascular plants, and four invertebrate groups: butterflies, dragonflies and damselflies, ants and katydids. The report from that survey has remained the main source of information about the biodiversity of Atewa Forest to date.

However, McCullough *et al.* (2007) reviewed published data and museum collections only for some taxa, not all. For example, for vascular plants and butterflies, they combined specimen collections and published data with their newly recorded field data. But for birds and for larger mammals they reported only those species recorded during their fieldwork. Therefore, we are far from having a comprehensive statement of current knowledge.

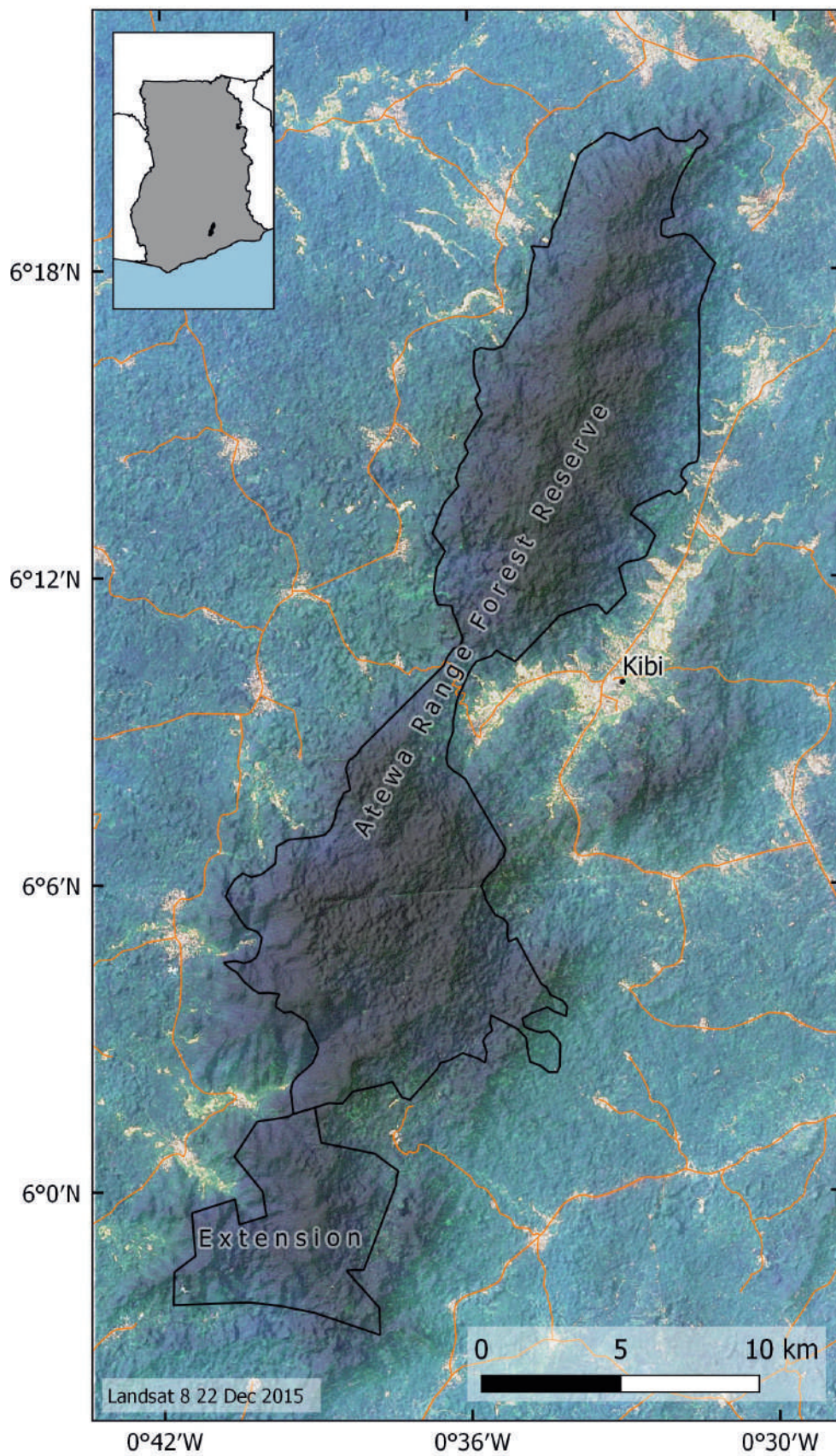
The prioritisation of sites of conservation importance often uses the presence of populations of globally threatened species in the identification process (so-called “trigger species”). For example, a site may be considered a higher priority to protect if it contains species that are more threatened or with a greater proportion of their population at the site (IUCN 2016). Spatial prioritisation processes for conservation can be enshrined in local legislation or international agreements (United Nations 2017) or be instrumental in environmental policy and decision making (International Finance Corporation 2012) so it is critical to ensure that site assessments are based on the best available information. Failure to account for potential trigger species and populations at a site may lead to it being inadequately protected or even excluded from protections altogether. Taxonomic revisions to species and reassessments of threat status as well as improvements in our knowledge

of species distributions and populations can alter the status of potential trigger species. When these changes result in the removal of a trigger species for a site then it is possible that the perceived importance of a site could be reduced. By ensuring that the fullest taxonomic range as possible is considered during site assessments it is possible to buffer against such taxonomic and threat assessment changes.

In this report, therefore, we set out to collate all available biological records for Atewa Forest, adding considerably to those reported by McCullough *et al.* (2007), both within the taxonomic groups that they considered and also through consideration of new groups (notably reptiles and non-vascular plants). We use this revised list to further demonstrate the biological importance of Atewa Forest both in terms of its sheer diversity but more specifically in highlighting the globally threatened and endemic species that the forest contains. We find that Atewa Forest is home to many more threatened species than has commonly been reported, and a greater diversity of species in general.

The grounds for protecting Atewa Forest from the current processes of degradation and the major threat from bauxite mining extend well beyond its biological importance. Just as the forest was originally reserved for watershed protection, so it remains critical to the water supply of millions of people living downstream along the three rivers whose headwaters the forest protects (Schep *et al.* 2016). But our intention here is to focus on biodiversity, to ensure that the best available knowledge is available for any decisions regarding the future of the forest and to make the strongest possible case that on biological grounds alone Atewa Forest warrants designation as a fully protected National Park.

Biodiversity of Atewa Forest



The location of Atewa Range Forest Reserve in Ghana and with relation to the main town of Kibi.



Western Bluewing *Sapho ciliata* (J. Lindsell)

Recent history of Atewa Forest

Atewa Forest occupies a ridge of land ca. 45 km long and 12 km at its widest covering an area of ca. 258 km². The altitude of the ridge ranges from 230 to 845 m above sea level (NASA 2014) and it is this relatively high elevation that supports the Upland Evergreen forest type of Atewa that is otherwise rare within Ghana (Hall & Swaine 1976) characterised by *Alchornea floribunda*, *Asplenium dregeanum*, *Chidlowia sanguinea*, *Lophira alata* and *Peperomia fernandopoiana*. Most of the ridge is forested from the lower slopes to the ridge top but the Upland Evergreen forest type occurs above 500 m and this accounts for just under 75% of the forest. The ridge top is a relatively flat plateau where a number of forested swamps occur, and this is where the bauxite deposits are concentrated.

Atewa Range Forest Reserve (25,818 ha¹) comprises two separate reserves: the Atewa Range Reserve and the Atewa Range Extension Reserve. It was originally reserved in 1926 under the Akyem Abuakwa State Native Authority bye-laws in order to “*protect the headwaters of the major rivers, namely Birim, Densu, Ayensu and their tributaries; to maintain a forest cover on the steep slopes of the hills to prevent excessive erosion; and to halt shifting cultivation and extension of the boundaries of existing cocoa farms.*” (Abu-Juam *et al.* 2003). The forest was subsequently reconstituted under the Forest Ordinance and gazetted in 1933. The forest reserve boundary roughly follows the 300 m contour in the north and the 400 m contour in the south.

In the early 1990s a major programme undertaken by the Forest Department to reassess all Ghana’s forests led to the Atewa Range Forest Reserve being designated a Special Biological Protection Area in 1994 and a Hill Sanctuary under the Protection Strategy proposals of 1995

(Hawthorne & Abu-Juam, 1995).

Subsequently the status of Atewa Forest was elevated further as one of Ghana’s 30 Globally Significant Biodiversity Areas which are equivalent to IUCN’s Category IV: a protected area mainly for conservation through management intervention (The World Bank 2003; Okoree 2015).

By 2001 the significance of Atewa Forest for bird conservation was recognised and it was designated an Important Bird Area by BirdLife International (Fishpool & Evans 2001). More recently, IBAs have been incorporated into Key Biodiversity Areas which now represents Atewa Forest’s most significant global level of prioritisation (IUCN 2016).

A draft management plan for Atewa Forest was published in 2003 (Abu-Juam *et al.* 2003), but most of its recommendations were not subsequently implemented. More recently, a detailed justification has been drawn up for establishing Atewa Forest as a National Park (Osei-Owusu 2016) but this remains to be acted upon.

1 The precise area of the forest reserve is hard to determine. Abu-Juam *et al.* (2003) reported two different sizes for the main reserve (23,662 ha and 232 km²) and a clearly erroneous size for the extension (26,312 ha) which is subsequently corrected to 26.3km². Assuming the latter figure is correct, the options for the total area are 26,293 ha or 25,831 ha and it is the latter figure that Abu-Juam *et al.* (2003) use for the total figure. This accords well with the most reliable GIS shapefile available for the reserve (258.2 km²). Osei-Owusu (2016) reports 263 km², Schep *et al.* (2016) 253 km² and BirdLife International (2018) 232 km².

Current threats to Atewa Forest

There are a wide range of threats to the biological integrity of Atewa Forest. These have been well reviewed by Osei-Owusu (2016) and the prevalence of some threats within Atewa Forest have been reported by Lindsell *et al.* (2016). Forest degradation arises from unmanaged logging, agricultural activity (both admitted and illegal farms), small scale mining (galamsey) and associated chemical pollution, hunting, unsustainable harvesting of non-timber forest products, and fire.

Historically, widespread licensed logging has altered the vegetation structure of the forest substantially. A small number of contractors were granted concessions to log in the reserve between 1966 and 1998 (Abu-Juam *et al.* 2003). Since then, there has been no licenced logging and the 2003 management plan made no provision for timber harvesting, but a substantial level of unmanaged (illegal) logging has persisted. During a systematic survey of the forest in 2014, signs of logging such as cut stumps and abandoned planks were found along 88% of survey transects (Lindsell *et al.* 2016).

Communal rights granted access for local communities to the forest to harvest certain goods and to continue farming in proscribed places (so called "admitted farms"). Farming of food stuff was permitted on around 6 ha and 280 ha allowed for unrestricted farming. "Taungya" plantations were established on 104 ha but many of these were unsuccessful (Abu-Juam *et al.* 2003). Farming of food stuffs and commodities such as cocoa continues within the reserve boundary though the precise area is unknown. Signs of farming were found along 33% of survey transects in 2014 (Lindsell *et al.* 2016).

Small-scale gold mining in the region has mostly been confined to the water courses outside of the forest reserve so has not presented a

significant direct threat to the integrity of the forest. Relatively few signs of mining were found during a forest survey in 2014 (8% of transects). Strong enforcement of a suspension of small-scale mining in Ghana in April 2017 led to a near-complete cessation of mining activity around Atewa. However, there are indications that some of this mining activity has been displaced to within the forest itself where activities are harder to detect.

Hunting is very widespread in the Atewa Forest and together with logging this is having the greatest impact on the biological integrity of the forest. A survey in 2014 found signs of hunting (spent cartridges and snares) along 63% of survey transects (Lindsell *et al.* 2016). A camera trapping survey of Atewa Forest detected hunters at 25% of locations, which was more than for any animal species except Giant Pouched Rat (A Rocha unpublished data). This high level of detection was more notable still given that the cameras were located randomly across the forest.

The long and narrow shape of Atewa Forest means that it has a relatively long boundary in proportion to its area. This exposes the forest to the risk of fire encroaching from neighbouring farmland. In 2016 a fire affected a large swathe of Atewa Forest. It originated in farmland on the east side of the forest and burned across the full width of the forest. It appears to have been largely confined to the litter layer, but the heat killed the leaves of the canopy and resulted in many tree mortalities. The subsequent change in the light conditions transformed the understory resulting in a vigorous incursion of the invasive plant *Chromolaena odorata* (commonly known in Ghana as "Acheampong weed") in places (pers. obs.).

Bauxite reserves underlying Atewa Forest were discovered by Albert Kitson in 1914 (Cooper



Small-scale gold mining (galamsey) has been prevalent around Atewa Forest in recent years (J. Lindsell).

1936) and proposals to exploit them have come and gone over the decades. Ghana's Akosombo Dam was originally constructed to provide power for aluminium smelting (Hilton 1966) but the industry was never developed (Knierzinger 2018) and the dam's capacity is largely consumed by households and other industries (Energy Commission of Ghana 2018). Bauxite deposits at Atewa Forest have been assessed on at least 11 occasions by government geologists and prospective companies (McCullough *et al.* 2007, Osei-Owusu 2016, Minerals Commission in litt.). The particular reasons why mining has not proceeded are varied including an enduring concern about the biological and hydrological importance of Atewa Forest. These were, after all, the reasons why the forest was reserved in the first place. In 2016, a substantial analysis of the economics of Atewa Forest (Schep *et al.* 2016) demonstrated that the greatest value to the national economy came from a protected Atewa Forest within a well managed landscape and a large part of this value derived from the forest's importance to regional hydrology. These concerns about the environmental impact have led some aluminium companies to undertake thorough investigation of the forest's biological

importance before proceeding with any plans to exploit the reserves. Most notably, the US owned company ALCOA, supported the largest programme of biological fieldwork in Atewa Forest which was undertaken in 2006. It was the report from this work (McCullough *et al.* 2007) that consolidated Atewa Forest's status as a site of international importance for biodiversity conservation.

The most recent proposals to surface mine Atewa Forest for bauxite have met broad opposition from local communities and community leaders, civil society groups, the media, certain industry sectors, professional bodies, diplomatic missions to Ghana, international conservation organisations and conservation leaders, and the global community in the form of widely-supported petitions. Reasons to oppose bauxite mining in Atewa Forest are many and have been well articulated by those involved in the campaign to protect the forest. Instead of mining, it is greatly preferred to pursue a green development pathway for the forest and surrounding landscape that safeguards both the biodiversity and the water provisioning services of Atewa Forest into the future.

Sources of data

We compiled records for Atewa Forest from databases of museum collections, scientific papers, project reports and a number of unpublished but verifiable observations.

Museum data and many unpublished records were extracted from the Global Biodiversity Information Facility (GBIF). Many major museums around the world have digitised their collections and these records are now accessible through GBIF.

The most important published source of data for Atewa Forest is from the Rapid Assessment Programme survey in 2006 (McCullough *et al.* 2007). This survey covered a wide range of taxonomic groups including plants, all vertebrate groups except reptiles, and four invertebrate groups. Although some of these groups have been more comprehensively surveyed in Atewa Forest on other occasions, for many groups this RAP report remains the best single authority.

Botanical surveys and collections in Atewa Forest have been undertaken on occasion over many years and specimens exist in herbaria in

Ghana and elsewhere. A number of plant lists for Atewa Forest have been produced, often incomplete as they were based on a limited period of collecting. For example the plant list recorded by Jongkind (2007) was supplemented by herbarium data from one key collection in the Netherlands (Wageningen) but didn't include other collections. Since many herbaria collections are now accessible through GBIF it is possible to compile a more complete list of what is known, though this will still fall far short of the true plant list for the forest. Our current knowledge of non-vascular plants in Atewa Forest, for example, is largely restricted to a single recent expedition of 10 days (Hodgetts *et al.* 2016).

The birds of Atewa Forest have been thoroughly surveyed during fieldwork for BirdLife's Important Bird Area programme (Ntiamao-Baidu *et al.* 2000), by Demey and Ossom (2007), and again by Dowsett-Lemaire and Dowsett (2005, 2011a). The forest is a popular destination for bird tour companies and private eco-tourists whose data are often available via



Patrick Ekpe of the Ghana Herbarium holding a specimen of the Atewa endemic liana *Monanthonotaxis atewensis*. The herbarium has many specimen records for Atewa Forest (J. Lindsell)

Biodiversity of Atewa Forest

Table 1. Simplified table of key IUCN RedList Categories referred to in the text. Criteria shown are selected and not complete.

Threat Category		Population trend (% decline)	Criteria		Extinction probability (%)
			Range area (km ²)*	Population size (individuals)	
Critically Endangered	CR	≥90 in 10 yrs	AOO <10 EOO <100	<250	≥50 in 10 yrs
Endangered	EN	≥70 in 10 yrs	AOO <500 EOO <5000	<2500	≥20 in 20 yrs
Vulnerable	VU	≥50 in 10 yrs	AOO <2000 EOO <20,000	<10,000 or ≤ 5 sites	≥10 in 100 yrs
Near Threatened	NT	May qualify for threatened status in near future			
Least concern	LC	Unlikely to qualify for threatened status in near future			
Data deficient	DD	Insufficient information for a proper assessment			

*AOO = Area of occupancy, EOO = Extent of occurrence.

eBird (The Cornell Lab of Ornithology), providing a contemporary account of the avifauna. Despite this level attention it has proved possible for some important resident species to remain undetected until relatively recently.

Mammals were surveyed by Sam *et al.* (2007) and Weber and Fahr (2007), though rather little attention was given to small mammals besides bats. The historical record of mammals from Atewa Forest also appears to be very limited with surprisingly few species recorded from the relevant atlas squares in Grubb *et al.* (1998). This gap reflects an absence of mammal specimens from Atewa Forest in museums around the world (J. Decher pers. obs.), an observation which is supported by a complete lack of any mammal records in GBIF within a geographic polygon that includes the whole of Atewa Forest.

Fish, butterfly, dragonfly, ant and katydid records have not advanced to any great extent beyond those reported in McCullough *et al.* (2007).

GBIF

We searched GBIF for records geographically by using a simplified minimum convex polygon that extended beyond the boundary of the Atewa Range Forest Reserve to ensure that we considered

relevant records that were less precisely geolocated. GBIF occurrence data were downloaded on 19 Jan 2018.

The precise location of the reserve boundary is often hard to determine in the field and is not reliably mapped so it is hard to be certain that records near to the reserve boundary were either inside or outside of the reserve. We therefore coded records from outside the apparent boundary but within 200m and within 500m of the boundary so that we could include them with respective qualification. We also retained records of additional species from the wider landscape surrounding Atewa Forest.

GBIF included bird records from eBird. Records from eBird tended to be clumped at a single location which represented the whole forest reserve. We suspect that a large number of open country, aerial and wetland bird species recorded on eBird lists for Atewa Forest were in fact recorded in the surrounding countryside when the observer travelled to and from the forest itself. Records in eBird also presented a challenge because they were not usually accompanied by any supporting evidence. We therefore filtered eBird records to remove obvious open wetland species. For species recorded only in eBird we

assigned open-country and aerial species to the wider landscape category and did not accept them as having occurred within the forest reserve. We deleted any species which were far out of geographic range and lacked supporting information. For any forest dependent species recorded only in eBird, we accepted them only if the species was within geographical and altitudinal range, or we were satisfied with the expertise of the observer when this information was available.

Taxonomy

Collating species records from multiple data sources spanning many years resulted in many synonyms appearing within the dataset. Therefore, for each major taxonomic group we revised names to match International Union for Conservation of Nature's preferred taxonomy (IUCN 2018) where available, or against another established authority. A few minor revisions to IUCN taxonomy were accepted in accordance with more recent publications.

We revised plant names and resolved taxonomic questions using the African Plant Database (2018), Govaerts *et al.* (2018) for

Cyperaceae and Hawthorne and Jongkind (2006). We also conducted geographic range checks, excluded many crop species and introduced exotics Hutchinson *et al.* (2014) and assigned global rarity star ratings (Marshall *et al.* 2016). Star ratings group species according to the number of one degree squares that they occupy globally and have been used by forest managers in Ghana for many years. The rarest Black Star species on average occupy 2.7 degree squares, Gold Star species occupy 8 squares, Blue Star occupy 24 squares and Green Star occupy 72 squares.

We revised bird names to follow BirdLife International's recent taxonomy (del Hoyo, J. *et al.* 2014; del Hoyo *et al.* 2016), and mammals to follow IUCN Red List taxonomy. Butterfly taxonomy followed Larsen (2005) and dragonflies followed Dijkstra (2007). Taxonomy of groups with smaller representation in the dataset (katydid and a few other invertebrate groups) was left according to the original data sources.

Throughout this report we make frequent use of IUCN's Red List threat categories (Table 1).



The tree fern *Cyathea manniana* is one of Atewa Forest's most noteworthy plants (W. Hawthorne)

Results

We compiled 15,500 individual records for Atewa Forest. The total number of species reliably recorded in the forest and within 500 m of the boundary was 2396, with a further 178 recorded from the landscape around the forest (Table 2).

For most taxonomic groups, the number of

species recorded in Atewa Forest represented ca. 20–50% of the national total for that group (Table 3). The remarkable exception is for butterflies for which over 75% of all Ghana’s species are thought to be found in Atewa Forest.

Table 2. The number of species recorded in Atewa Forest, in relation to the forest reserve boundary.

Location	# species
Strictly inside	2365
Within 500m	2396
Surrounding landscape	2574

Table 3. The proportion of Ghana’s flora and fauna that are found in Atewa Forest (and within 500 m of the boundary), for each major taxonomic group.

Group	# in Atewa	# in Ghana	% of Ghana's total
Plants	1134 (969 vascular)	3725 ¹ (vascular)	26%*
Birds	239	749 ²	32%
Mammals	69	260 ³	27%
Amphibians	40	79 ³	51%
Reptiles	14	178 ⁴	8%
Butterflies	711	925 ⁵	77%

¹Morat and Lowry II 1997 (vascular plants only); ²Dowsett–Lemaire and Dowsett 2014; ³IUCN RedList downloaded January 2018 (Frost 2018 lists 91 amphibians and AmphibiaWeb, 2018 lists 88); ⁴Uetz et al. 2018 (GBIF lists 201 reptiles for Ghana but this includes some synonyms) ⁵Larsen 2006

* this percentage refers only to vascular plants.



A Rocha fieldworkers assembled by a large *Ceiba pentandra* tree in Atewa Forest (J. Lindsell).

Threatened species

Only 595 of all species recorded in Atewa Forest have been assessed for extinction risk on IUCN's RedList (ca. 25%). Many plants and almost all invertebrates still await assessment. Nonetheless, at least 78 species in Atewa Forest have been classified as globally threatened with extinction (Critically Endangered CR, Endangered EN or Vulnerable VU), a further 24 are near-threatened (NT) and five species are data deficient (DD). This total of 107 species accounts for 20% of all species in these categories occurring in Ghana. Another two species known from Atewa are expected to be classified as CR once they are assessed: an endemic plant, *Monanthotaxis atewensis* and a recently described frog, Afia Birago's Puddle Frog

Phrynobatrachus afixirago. The White-naped Mangabey *Cercocebus lunulatus* which is currently EN also meets CR criteria (R. Mittermeier in litt.).

Aside from the Odonata, all of the major groups that have been assessed in detail include some threatened species. The largest number of threatened species is found amongst plants. Many plants are geographically confined to the Upper Guinea Forests which have reduced dramatically in extent over the last 50 years. The amphibians are the proportionately most at risk with 30% of Atewa's list being threatened or near-threatened.

Table 4 The number of threatened, near-threatened and data deficient species in Atewa Forest.

IUCN Red List category	# species
Critically endangered	3*
Endangered	16
Vulnerable	59
Near-threatened	24
Data deficient	5

* this number may be revised upwards to 6 in due course, see Table 5

Table 5 The number of threatened, near-threatened and data deficient species in Atewa Forest in each taxonomic group.

Group	CR, EN, VU*	NT	DD
Plants	56	6	
Birds	6	7	
Mammals	7	5	3
Amphibians	5	7	
Reptiles	1		
Fishes	3	1	
Butterfly	1		2

*One further plant *Monanthotaxis atewensis* and one amphibian *Phrynobatrachus afixirago* are expected to be CR, the primate White-naped Mangabey *Cercocebus lunulatus* may soon be uplisted to CR, and a butterfly endemic to Atewa Forest awaits assessment. Hooded Vulture *Necrosyrtes monachus* CR is a non-forest species and White-necked Picathartes *Picathartes gymnocephalus* is now thought extinct in Atewa so they are excluded from these totals.

Endemic and other notable species

Four or five species are believed to be entirely endemic to Atewa Forest, being found in no other forest in the world: a climbing plant *Monanthotaxis atewensis*, two butterflies Atewa Dotted Border *Mylothris atewa* and *Anthene helpsi*, and the Atewa Hooded Spider *Ricinoides atewa*. The Atewa population of Togo Slippery Frog *Conraua derooi* is now considered to be specifically distinct which would also make it endemic to the forest (C. Ofori Boateng unpubl. data).

Nine species are named after Atewa Forest in their scientific name and two are named after the alternate name for the range of hills, Kibi. These are four plants *Aframomum atewae*, *Monanthotaxis atewensis*, *Rinorea kibbiensis* and *Ochna kibbiensis*, two butterflies *Anthene atewa* and *Mylothris atewa*, two arachnids *Anansus atewa* and *Ricinoides atewa*, and a caddisfly (Trichoptera) *Pseudoneureclipsis atewa* (Gibbs 2008).



The Atewa Hooded Spider *Ricinoides atewa* was described from Atewa Forest in 2008 (P. Naskrecki).



Swampy forest on the plateau of the Atewa range (J. Lindsell)

Plants

The plant list for Atewa Forest comprises 1134 species. This is a large increase on the number reported for the forest by McCullough *et al.* (2007). The increase is largely due to the inclusion of specimen data from herbarium collections in Ghana and around the world and the results of a recent field survey of non-vascular plants (Hodgetts *et al.* 2016). A further 114 plants have been found beyond 500 m of the boundary in the surrounding landscape.

Although a large number of Atewa's plants (56) are considered threatened, only a small number of all the plants in the forest (104 species) have actually been assessed by IUCN. Priority for assessment will have been given to species considered likely at risk so the 104 species are not a representative sample of all plants. It is therefore hard to know what proportion of unassessed plants will prove to be threatened too. Using the star rating system (Marshall *et al.* 2016) for vascular plants, 10 species are Black star (global occurrence in mean 2.7 degree squares) and 22 are

Gold star (8 squares).

One recently described plant named after the forest, *Monanthotaxis atewensis*, has been found in no other forest, so is presumed to be entirely endemic to Atewa Forest. The specimens of this plant that are held in the Ghana Herbarium were collected in 1967 but it was not recognised as a distinct species until recently (Hoekstra *et al.* 2016).

Although the vegetation structure of Atewa Forest has been highly modified by logging, farming and mineral prospecting and extraction, forest vegetation remains at all altitudes. It is reasonable to assume that this list of plants, which has accumulated over many years of surveys and collecting (the oldest record in the database is from 1899), still represents the current floral richness. At least 24 of the threatened and near-threatened species have been reported during recent fieldwork (Addo-Fordjour *et al.* 2013; A Rocha International unpubl. data).



The globally Endangered *Monocyclanthus vignei* is a rare tree in wet evergreen forest of Liberia and Ghana and is found in Atewa Forest. It is the only member of its genus (W. Hawthorne).

Birds

The bird list for Atewa Forest is 239 species. A further 42 open country and aerial species are in the surrounding landscape and many of these will overfly the forest but are unlikely to be resident within the reserve. 152 species recorded in Atewa Forest are restricted to the Guinea-Congo Forest biome (Fishpool & Evans 2001) and are trigger species for the identification of Important Bird Areas. A further 61 species are forest dependent or forest users.

Eight species recorded in Atewa Forest (Table 6) are endemic to the Upper Guinea Forest Endemic Bird Area (EBA), the region west of the Dahomey Gap of Togo and Benin (Stattersfield *et al.* 1998). These include most of the globally threatened and near-threatened birds in Atewa Forest, the remaining ones being Crowned Eagle *Stephanoaetus coronatus*, Grey Parrot *Psittacus erithacus*, Yellow-casqued Hornbill *Ceratogymna elata*, Yellow-footed

Honeyguide *Melignomon eisentrauti*, Blue-moustached Bee-eater *Merops mentalis* and Red-fronted Antpecker *Parmoptila rubrifrons*.

The threatened Nimba Flycatcher (VU) *Melaenornis annamarulae* occurs in Atewa Forest and at no other place in Ghana. The Nimba Flycatcher is a significant attraction for eco-tourists visiting Atewa Forest, making the site an indispensable part of eco-tourist itineraries. Western Wattled Cuckooshrike *Lobotos lobatus* (VU) was not known from Atewa Forest until November 2013 when a single bird was photographed in the canopy. This indicates that even in a relatively well-surveyed and well-watched forest, important species can go undetected for many years.

The globally threatened White-necked Picathartes *Picathartes gymnocephalus* was reported to occur in Atewa Forest (Dowsett-Lemaire & Dowsett, 2005) but recent efforts have failed to locate it. The picathartes nests in rocky



An eco-tourist group being shown a West African *Batis occulta* in Atewa Forest (J. Lindsell).

Biodiversity of Atewa Forest

caves and since such caves have tended to be occupied by hunters in recent years it seems likely that they have now been extirpated from Atewa Forest.

Most other species of birds that have been recorded in Atewa Forest are seen routinely by visiting eco-tourists and are therefore considered extant.

Table 6 Upper Guinea Forest EBA birds recorded in Atewa Forest.

Species	IUCN status
Brown-cheeked Hornbill <i>Bycanistes cylindricus</i>	VU
Western Wattled Cuckooshrike <i>Lobotos lobatus</i>	VU
Sharpe's Apalis <i>Apalis sharpii</i>	LC
Green-tailed Bristlebill <i>Bleda eximius</i>	NT
Yellow-bearded Greenbul <i>Criniger olivaceus</i>	VU
Rufous-winged Illadopsis <i>Illadopsis rufescens</i>	NT
Copper-tailed Starling <i>Hylopsar cupreocauda</i>	NT
Nimba Flycatcher <i>Melaenornis annamarulae</i>	VU



The Western Wattled Cuckooshrike *Lobotos lobatus* is a very rarely photographed species. This image (in which one is just about distinguishable) was the first record for Atewa Forest (J. Lindsell).



White-spotted Flufftail *Sarothrura pulchra* (left) and Red-cheeked Wattle-eye *Dyaphorophya blissetti* (photographed elsewhere) are both recorded in Atewa Forest (D. Monticelli).

Mammals

The number of mammals recorded in Atewa Forest is 69 species. There have apparently been few surveys and low levels of scientific collecting of mammals in Atewa Forest as evidenced by the very few specimens in museums around the world (Grubb *et al.* 1998, GBIF, J. Decher pers. obs.). Indeed, it is only during recent fieldwork that some species have been added to the list, including White-bellied Pangolin *Phataginus tricuspis* and Slender-tailed Squirrel *Protoxerus aubinnii*. Of seven small mammal species caught during a three night survey in 2018, four were shrew species new to the Atewa mammal list (*Crocidura cf. douceti*, *C. juvenetae*, *C. olivieri* and *C. cf. wimmeri*) suggesting that more remain to be discovered (J. Decher unpubl. data). *C. cf. wimmeri* will be a significant finding if confirmed as it is a Critically Endangered species known only from Côte d'Ivoire.

There have been many extinctions of larger species in Atewa Forest. Bongo *Tragelaphus eurycerus*, Giant Forest Hog *Hylochoerus meinertzhageni* and Leopard *Panthera pardus*, reported by local hunters, are all now extinct (Dowsett-Lemaire & Dowsett 2005). Roloway

Monkey *Cercopithecus roloway* and Golden Cat *Caracal aurata* may no longer occur, though the monkey was reported by local hunters relatively recently (Dowsett-Lemaire & Dowsett 2005). Most of these extinctions occurred over the same timescales that saw many large mammals disappear from the wider Ghanaian countryside. However, the very high hunting pressure that currently prevails in Atewa Forest is likely to be pushing more species towards local extinction.

Despite this apparently negative trend, a number of very rare and more generally threatened species persist in Atewa Forest. The most remarkable recent discovery is that of the White-naped Mangabey *Cercocebus lunulatus*. Although there is evidence in the historical record of their occurrence in eastern Ghana there have been no modern confirmed sightings until 2017 when a small group was photographed on a camera trap in Atewa Forest. This species has been listed as Endangered by IUCN but may now meet the criteria for Critically Endangered. Until this discovery it was thought that White-naped Mangabey was confined to a number of forests in the far west of Ghana and across the border in



White-naped Mangabey *Cercocebus lunulatus* photographed in Atewa Forest on an camera trap, the first confirmed evidence of the species in the forest (A Rocha).

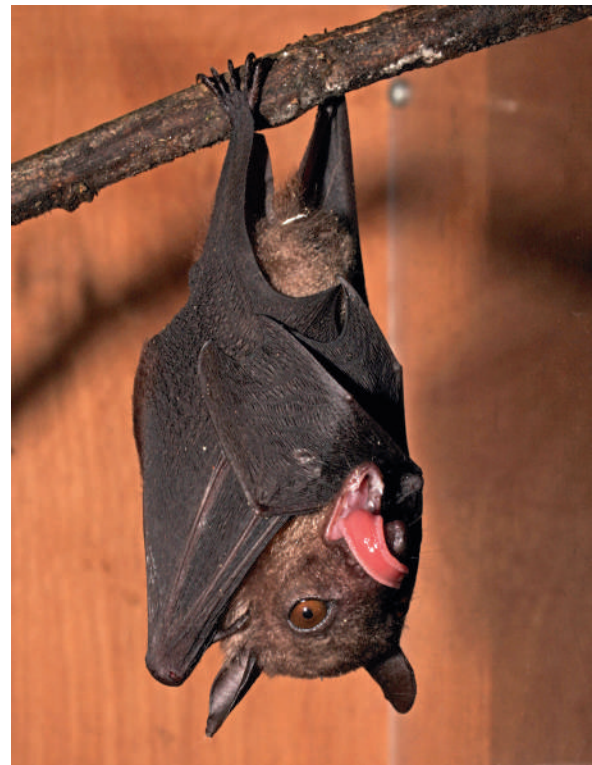
Côte d’Ivoire. White-naped Managabey is the subject of intensive conservation efforts in Ghana with captive breeding facilities established at Accra and Kumasi zoos (WAPCA), as well as zoos around the world (Abelló & Jiménez Tomàs 2011). The discovery of a wild population in a new part of the country offers enormous hope for the future of this species and the efforts to protect

and re-establish its population.

There are 37 additional species of mammals that have been recorded in areas around Atewa Forest (Grubb *et al.* 1998) some of which may also occur in Atewa Forest.

Table 7 Globally threatened, near-threatened and data deficient mammals recorded in Atewa Forest.

Species	IUCN status	Species	IUCN status
Wimmer’s Shrew <i>Crocidura wimmeri</i>	CR	Golden Cat <i>Caracal aurata</i>	VU
Large-headed Shrew <i>Crocidura grandiceps</i>	NT	White-naped Mangabey <i>Cercocebus lunulatus</i>	EN*
Straw-coloured Fruit Bat <i>Eidolon helvum</i>	NT	White-thighed Colobus <i>Colobus vellerosus</i>	VU
Bay Duiker <i>Cephalophus dorsalis</i>	NT	Olive Colobus <i>Procolobus verus</i>	NT
Pel’s Flying Squirrel <i>Anomalurus pelii</i>	DD	Roloway Monkey <i>Cercopithecus roloway</i>	EN
Yellow-backed Duiker <i>Cephalophus silvicultor</i>	NT	Small Sun Squirrel <i>Heliosciurus punctatus</i>	DD
Long-tailed Pangolin <i>Phataginus tetradactyla</i>	VU	Slender-tailed Squirrel <i>Protoxerus aubinnii</i>	DD
White-bellied Pangolin <i>Phataginus tricuspis</i>	VU		



Left, images from camera traps in Atewa Forest of (upper) the heavily-hunted White-bellied Pangolin *Phataginus tricuspis* (VU) and (lower) a pair of Slender-tailed Squirrels *Protoxerus aubinnii* (DD), a poorly known species newly recorded for the site (A Rocha). Above, Western Woermann’s Fruit Bat *Megaloglossus azagnyi* (J. Decher).

Amphibians

Amphibians are by far the most threatened taxonomic group in Atewa Forest. Of the 40 species that have been recorded, 30% are threatened or near-threatened with extinction (Table 8).

There are many species that are cryptic and poorly known, and likely to be species that remain undiscovered. Afia Birago Puddle Frog *Phrynobatrachus afiaborago* was described in 2018 from specimens collected in Atewa and Jukwa Forests (Ofori-Boateng *et al.* 2018). Since Jukwa is now a small fragment of just 0.5 ha it is likely this species will become entirely dependent on Atewa Forest for its survival. Once assessed by IUCN it is likely that this species will be classified as Critically Endangered. Photographs from Atewa of a frog resembling *Arthroleptis brevipes* may be an undescribed species, and *Ptychadena aequiplicata* specimens from Atewa Forest comprise two different novel species, neither endemic to Atewa (Rödel unpubl. data).

The Togo Slippery Frog *Conraua derooi* is a

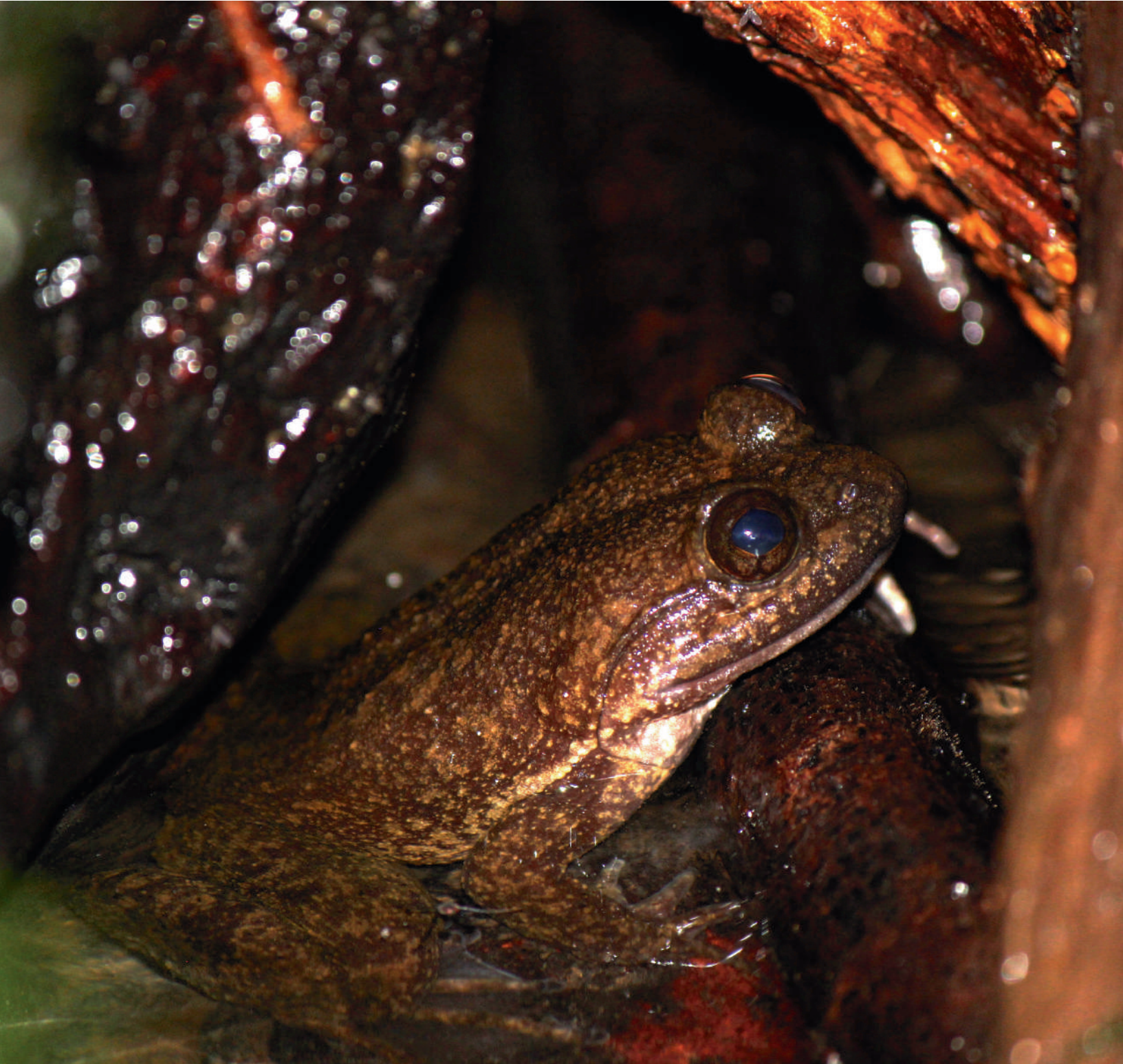
Critically Endangered species first discovered in Atewa Forest in 2006 (Kouamé *et al.* 2007). It is otherwise only known from some forest patches in the western Togo highlands. Recent molecular analysis has shown that the population in Atewa Forest is distinct at the species level (Ofori-Boateng & Rödel unpubl. data). This species will certainly be entirely dependent on Atewa Forest for its survival. The population of *Conraua* in Atewa Forest is found only in fast flowing rocky streams with clear water, under closed canopy forest, and at relatively high altitudes. These conditions only exist in streams that flow from the plateau of the highest parts of the Atewa range, in the northern sector of the forest. This is probably the single most vulnerable species to any mining activity that may occur on the bauxite plateau since it will be impossible to control the impact on the streams on which they depend. There is therefore an extremely high risk that even limited surface mining could lead to the global extinction of this species.

Table 8 Globally threatened and near-threatened amphibians recorded in Atewa Forest.

Species	IUCN status	Species	IUCN status
Broad-headed Night Frog <i>Astylosternus laticephalus</i>	NT	Ivory Coast Running Frog <i>Kassina arboricola</i>	VU
Big-eyed Forest Treefrog <i>Leptopelis macrotis</i>	NT	Togo Slippery Frog <i>Conraua derooi</i>	CR
Tai Forest Treefrog <i>L. occidentalis</i>	NT	Allen's River Frog <i>Phrynobatrachus alleni</i>	NT
Togo Toad <i>Sclerophrys togoensis</i>	NT	Afia Birago Puddle Frog <i>P. afiaborago</i>	[CR]
Ivory Coast Wart Frog <i>Acanthixalus sonjae</i>	NT	Ghana River Frog <i>P. ghanensis</i>	EN
Nimba Banana Frog <i>Afrixalus vibekensis</i>	NT	Ivory Coast Frog <i>Amnirana occidentalis</i>	EN
Bobiri Reed Frog <i>Hyperolius bobirensis</i>	EN		

Afia-Birago Puddle Frog *Phrynobatrachus afiaborago* recently described from specimens collected in Atewa Forest (A. Leaché)





The [Togo] Slippery Frog *Conraua derooi* in Atewa Forest, is now known to be a distinct species from the population in western Togo making it entirely restricted to Atewa Forest (J. Lindsell).

Reptiles

There have been few surveys of the reptiles of Atewa Forest so the 14 species recorded is likely to be far from a complete list. The comparatively low proportion of Ghana's reptile diversity recorded in Atewa (8%) compared with other groups may also be because of low survey effort but also the low detectability of many forest reptiles, especially snakes (Ernst *et al.* 2005). It may also reflect the relatively low diversity, in particular for lizards, in humid forest compared with other habitats in Ghana. By comparison, a survey of Kyabobo National Park in the Togo Hills of Ghana which includes some similar habitats to Atewa

Forest reported 19 reptiles in forest habitat and a further 14 in farmbush (Leaché *et al.* 2006). And in southwest Ghana just 18 species were reported from three lowland forests (Ernst *et al.* 2005). For the snake fauna however, more than 40 species could be expected for Atewa (see Rödel & Mahsberg 2000).

Nonetheless, it is notable that the West African Dwarf Crocodile *Osteolaemus tetraspis*, which is a globally threatened species (VU), can still be found in the swamps on the Atewa range plateau.



West African Dwarf Crocodile *Osteolaemus tetraspis* photographed in Atewa Forest in November 2017 occupies forested swamps on the summit of the plateau. (J. Lindsell).

Butterflies

Atewa Forest is one of the most significant forests for butterflies in the region. With 573 species confirmed and 711 species expected to occur, this accounts for 77% of Ghana's entire butterfly fauna, making it the most diverse forest for butterflies in all of West Africa (Larsen 2006) and a popular destination for ecotourists interested in

seeing and photographing them. At least two species are known only from Atewa Forest, the Atewa Dotted Border *Mylothris atewa* and *Anthene helpsi*. An endemic subspecies, *Acraea kraka kibi* is also confined to Atewa Forest. The celebrated African Giant Swallowtail *Papilio antimachus* also occurs.

Relatively few butterflies have been assessed by IUCN so we have little understanding of threat levels for this group. The Atewa Dotted Border is listed as

VU. The swallowtail and Caroline’s Sapphire *Iolaus carolinae* are listed as Data Deficient, reflecting the challenge with assessing this group.



Atewa Dotted Border *Mylothris atewa* is restricted to Atewa Forest and classified as Vulnerable to extinction (P. Naskrecki).

Other groups

26 species of fishes have been recorded in Atewa Forest. Three of these are threatened or near-threatened, whilst almost half have not been assessed by IUCN.

Table 9 Globally threatened and near-threatened fishes occurring in Atewa Forest.

Species	IUCN status
<i>Tilapia busumana</i>	VU
<i>Barbus walkeri</i>	VU
<i>Epiplatys chaperi</i>	NT

Odonata (dragonflies and damselflies) were surveyed comprehensively in Atewa Forest in 2006 (Dijkstra 2007) and 76 species were reported. Two further species have since been described from specimens collected during that same survey (Dijkstra *et al.* 2015). None of these are known to be at risk of extinction. However, many of them are dependent on clear flowing

water and are likely to have been affected by the impacts of galamsey in the surrounding landscape.

33 species of katydids were recorded in Atewa Forest, also in 2006 (Naskrecki 2007). We were only able to locate 18 moth species recorded in Atewa Forest, but the true number must be many hundreds given the known diversity of this group. All other invertebrate species recorded amounted to just 27 species including members of Trichoptera, Arachnida and Hymenoptera.

Of particular note is an arachnid, the Atewa Hooded Spider *Ricinoides atewa*. This was described in 2008 as a new species and named after the forest (Naskrecki 2008). It is the largest known species of Tick Spider (Order Ricinulei), of which 11 of the world’s 60 species occur in West Africa.



The Forest Mother-of-Pearl *Protogoniomorpha parhassus* is an impressive large forest butterfly widespread in the Afrotropics and one of over 700 species thought to occur in Atewa Forest (J. Lindsell).

Discussion

As is clear from this review of species occurrence, Atewa Forest is of exceptional biological value and this further confirms the status of the forest as a site of both national and international importance, as a Globally Significant Biodiversity Area, as an Important Bird Area, as a Key Biodiversity Area and as an essential part of the Upper Guinea Forest eco-region and Biodiversity Hotspot.

There are few forests in West Africa that are known to harbour such a high diversity of threatened species. Atewa Forest is probably the most biologically important forest in Ghana that is not currently a protected area (National Park, Resource Reserve, Wildlife Sanctuary or Strict Nature Reserve). Concerning butterflies alone, Larsen (2006) described Atewa Forest as “*undoubtedly one of the most important conservation priorities in Africa west of the Dahomey Gap*” (p36) due to high species diversity being “*the highest for anywhere in Ghana - or for that matter West Africa as a whole.*” (p89). Larsen concluded that the “*very high level of biodiversity, the presence of endemic species, the presence of many species known from nowhere else in Ghana, and the pan-African rarity of many of those present combine to indicate that the conservation importance of the Atewa forests is of the highest priority - possibly the most important site in the country, and certainly the most important area without formal status as a protected area.*” (p92).

For birds, the total list for Atewa Forest of 239 species is little short of the 244 species that Dowsett-Lemaire & Dowsett (2011b) reported for Kakum National Park, which is perhaps the best-known forest site for birds in Ghana. The number of Guinea-Congolian biome restricted species is similar for both these forests too: 156 for Kakum

(Dowsett-Lemaire & Dowsett, 2011b) and 152 for Atewa (this report). By comparison, Ankasa Conservation Area has 204 species recorded, of which 144 are biome restricted, and similarly Bia Conservation Area has 215 species of which 144 are biome restricted (Dowsett-Lemaire & Dowsett, 2011c, 2011d).

The forest has long been known for its distinctive upland forest vegetation type and unusual species assemblage leading to its inclusion amongst a select list of 38 places around the world that were highlighted by E.O. Wilson as exemplars of places that we really must protect for the global good (Wilson, 2016). He described Atewa as “the finest example of a variant of the biome called the Upland Evergreen Forest”. That value can now be more fully appreciated. The recognition that over 100 globally threatened and near-threatened plants and animals occur in this one forest – fully 20% of Ghana’s total list of such species – and that the forest is home to 20–50% of the country’s species, only serves to emphasise the absolute priority there is in giving Atewa Forest the highest protection. It is hard to imagine what higher qualification would be required for full protection for a single site. Any one of the Critically Endangered species (and presumed to be CR) known to occur in Atewa Forest could well be pushed to global extinction by ill-advised exploitation of the forest. The Slippery Frog is especially vulnerable given its dependence on streams of a very specific character that would be dramatically affected by mining activity or significant vegetation clearance on the plateau.

It is the larger mammals, some of the birds, and a few other groups (e.g. large reptiles) that are at greatest risk from the high level of hunting that is ongoing in Atewa Forest. Many local extinctions of large mammals have probably

already occurred. Intensive camera trapping across the whole forest has revealed very low numbers of large and medium-sized mammals compared with more intact and less disturbed forests in the region. The surviving species are probably those that are either able to breed fast enough to withstand the high level of offtake or are in some way difficult to hunt or less desirable to target. The populations of many of these species may recover quite rapidly if only the pressure from hunting was eased.

This review has highlighted some significant gaps in our knowledge of Atewa Forest. Amongst the vertebrates, reptiles and small mammals seem to have been little surveyed. And very few invertebrate groups have been investigated to any extent. There are many prospects for future work, with the potential for new discoveries to be made. It is hoped that with the protection of the forest, programmes can be put in place to fill some of these gaps. No doubt many more species of conservation importance will be identified as a result.

Given the clear international importance of Atewa Forest for biodiversity conservation, there is strong justification to gazette the forest as a National Park. Such a decision would help deliver Ghana's commitments under the Convention of Biological Diversity signed in 2002. Under the

CBD's Aichi Targets (www.cbd.int/sp/targets/), Target 11 on Protected Area networks uses Key Biodiversity Area coverage as a key indicator and Target 12 states: *By 2020 the extinction of known threatened species has been prevented and their conservation status, particularly of those most in decline, has been improved and sustained.* The area of KBAs that is brought under protection is also used as a measure of progress towards Sustainable Development Goal 15 – Life on Land (United Nations 2017). Although Ghana had not yet submitted its commitments to the SDGs by the time of writing, the current President of Ghana, His Excellency President Nana Addo Dankwa Akufo Addo, is Co-Chair of The UN Sustainable Development Goals Advocates and so the SDGs are indeed of high priority for the government of Ghana.

Besides these two multilateral agreements, various other international bodies and standards, including the World Bank's Environmental and Social Framework, the International Finance Corporation (2012) Performance Standard 6 and the Global Environment Facility's priorities for protected area support, use criteria that identify Atewa Forest as of the highest importance and therefore to be given priority for protection and the avoidance of exploitation.

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Appendix 1 – GBIF data

Latitude and longitude coordinates for the polygon used to search the GBIF database for records relating to Atewa Forest:

Polygon ((-0.709991455078125 6.0995908586568, -0.663299560546875 6.226568742378317, -0.624847412109375 6.309838680093361, -0.5767822265625 6.36716431286402, -0.51910400390625 6.386271437817992, -0.46829223632812494 6.35215107289977, -0.45043945312499994 6.287998672327671, -0.45593261718749994 6.211551441519991, -0.472412109375 6.124169589851178, -0.50537109375 6.055892557222489, -0.5548095703125 5.96302195718144, -0.597381591796875 5.920678656166646, -0.6427001953125 5.871501719127406, -0.699005126953125 5.867403444598711, -0.74432373046875 5.917946718602524, -0.775909423828125 5.968485371339503, -0.76629638671875 6.024482217477507, -0.709991455078125 6.0995908586568))

GBIF data sources contributing records to the Atewa Forest database

African Butterfly Research Institute, Nairobi

Bioversity International, Bioversity Collecting Mission Database LIVING SPECIMEN

Bioversity International, Bioversity Collecting Mission Database, The Plant Collecting Exploration of Ghana

California Academy of Sciences, ANTWEB

California Academy of Sciences, Herpetology

California Academy of Sciences, Ichthyology collection

Centro Internacional de Agricultura Tropical (BHAM_Maxted)

Centro Internacional de Agricultura Tropical, wild crop database

Centro Internacional de Agricultura Tropical, wild crop database (Bioversity)

Centro Internacional de Agricultura Tropical, wild crop database (Bioversity-SINGER)

Centro Internacional de Agricultura Tropical, wild crop database (PBI_NHM)

CSIC, Real Jardín Botánico, Colección de Plantas Vasculares

CSIRO, Australian National Insect Collection

eBird and eBird Australia

Fishbase

Illinois Natural History Survey, Insect Collection

iNaturalist (Citizen Science platform)

Missouri Botanical Garden, Tropicos Specimen Data

Muséum National d'Histoire Naturelle

Muséum National d'Histoire Naturelle, Vascular Plants collection

Museum of Comparative Zoology, Harvard University ICH

Museum of Comparative Zoology, Harvard University IZ

Museum of Evolution, Uppsala, Botany Collection

National Museum of Natural History, Smithsonian Institution, Botany collection

Natural History Museum, London

Natural History Museum, London, Botany collection

Natural History Museum, London, Zoology collection

Naturalis Biodiversity Center, Leiden, Botany collection

Naturalis Biodiversity Center, Leiden, Mollusca collection

Naturgucker, Germany

Ohio State University, Columbus, C.A. Triplehorn Insect Collection

Plazi.org, Rijksmuseum voor Natuurlijke Historie (RMNH)

Plazi.org, Zoologisches Forschungsinstitut und Museum Alexander Koenig (ZMFK)

Research Collection of Franz Puehringer

Research Collection of Pierre Schmit

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Royal Belgian Institute of Natural Sciences, Ronald Brabant collection
Royal Botanic Garden Edinburgh Herbarium
Royal Botanic Gardens, Kew, Herbarium
Royal Museum of Central Africa, Fruitfly collection
Royal Ontario Museum, Ichthyology Collection
Swedish Museum of Natural History, Phanerogamic Botanical Collections
University of Ghana Herbarium
University of Kansas Biodiversity Institute, Herpetology collection
University of Washington, Burke Museum
Zoologisches Forschungsmuseum A. Koenig, Bonn (ZFMK)
Zoological Museum, Natural History Museum of Denmark
Zoologische Staatssammlung München, International Barcode of Life
Zoologische Staatssammlung München
Zoologische Staatssammlung München, Fish collection

Notes concerning specific bird records in GBIF

Many bird records in GBIF derive from eBird and these are not usually accompanied by supporting details such as descriptions, photographs or sound recordings. eBird's recording method can also make it hard to be certain about the geographic location of records. For unusual species records it can therefore be difficult to confirm that the observation really was within the area of interest, and that the identification was reliable. Amongst the data from eBird that are seemingly recorded in Atewa Forest there are many species that have not been reported in other sources. We have not included all these records. African Piculet *Verreauxia africana* recorded from April 2014 is in a list described as "Kunasi to Koforidura" (which presumably should be Kumasi to Koforidua) and "Atewa 14 km hike". The only other supporting information states "we finally saw one". It is unclear from this whether the observation was during the hike in Atewa or at some place en route from Kumasi to Atewa. Mouse-brown Sunbird *Anthreptes gabonicus* from August 2010 was included in a checklist for Atewa Forest but the notes state that it was seen "in the grounds of the Intercontinental Hotel", which is in Accra, on the coast. Brown Firefinch *Lagonosticta nitidula* is a southern African species with a record that existed within the GBIF database attributed to an eBird checklist from September 2014. However, GBIF taxonomy appeared to associate *Lagonosticta nitidula* with Green Twinspot *Mandigoa nitidula* rather than Brown Firefinch so this was a GBIF database error. Green Twinspot is recorded in Atewa. Other species that are excluded from the database are listed below.

Little Grebe *Tachybaptus ruficollis*; Feral Pigeon *Columba livia*; Black-billed Wood-dove *Turtur abyssinicus*; Dwarf Bittern *Ixobrychus sturmii*; Cattle Egret *Bubulcus ibis*; Purple Heron *Ardea purpurea*; Great White Egret *Ardea alba*; Long-tailed Cormorant *Microcarbo africanus*; Common Sandpiper *Actitis hypoleucos*; Collared Pratincole *Glareola pratincola*; White-backed Vulture *Gyps africanus*; Shikra *Accipiter badius*; African Grey Hornbill *Lophoceros nasutus*; Red-billed Hornbill *Tockus erythrorhynchus*; Purple Roller *Coracias naevius*; Blue-bellied Roller *Coracias cyanogaster*; Malachite Kingfisher *Corythornis cristatus*; Giant Kingfisher *Megaceryle maxima*; African Piculet *Verreauxia africana*; Common Kestrel *Falco tinnunculus*; Brown-necked Parrot *Poicephalus fuscicollis*; Square-tailed Drongo *Dicrurus ludwigii*; Fork-tailed Drongo *Dicrurus adsimilis*; Piapiac *Ptilostomus afer*; White-necked Rockfowl *Picathartes gymnocephalus*; Singing Cisticola *Cisticola cantans*; Winding Cisticola *Cisticola marginatus*; Great Reed-warbler *Acrocephalus arundinaceus*; Mosque Swallow *Cecropis senegalensis*; Pied-winged Swallow *Hirundo leucosoma*; Yellow-throated Greenbul (YT leaflove) *Atimastillas flavicollis*; Long-tailed Glossy Starling *Lamprotornis caudatus*; Purple Starling *Lamprotornis purpureus*; Western Violet-backed Sunbird *Anthreptes longuemarei*; Green-headed Sunbird *Cyanomitra verticalis*; Scarlet-chested Sunbird *Chalcomitra senegalensis*; Variable Sunbird *Cinnyris venustus*; Copper Sunbird *Cinnyris cupreus*; Northern Red Bishop *Euplectes franciscanus*; Yellow-mantled Widowbird *Euplectes macroura*; Black-bellied Firefinch *Lagonosticta rara*; Yellow-throated Longclaw *Macronyx croceus*.

Appendix 2 – Species of conservation concern

Globally threatened, near-threatened and data deficient species recorded in Atewa Range Forest Reserve.

Futher details of these records appear in the additional tables below.

RL	L	Group	Name	Common name
CR	1	Plant	<i>Aubreggrinia taiensis</i>	
CR*	1	Plant	<i>Monanthes atewensis</i>	
CR	1	Amphibian	<i>Conraua derooi</i>	Togo Slippery Frog
CR*	1	Amphibian	<i>Phrynobatrachus afiabirago</i>	Afia Birago Puddle Frog
CR	1	Mammal	<i>Crocidura cf. wimmeri</i>	Wimmer's Shrew
EN	1	Plant	<i>Monocyclanthus vignei</i>	
EN	1	Plant	<i>Cola boxiana</i>	
EN	1	Plant	<i>Soyauxia talbotii</i>	
EN	1	Plant	<i>Vepris heterophylla</i>	
EN	1	Plant	<i>Okoubaka aubrevillei</i>	
EN	1	Plant	<i>Lecaniodiscus punctatus</i>	
EN	1	Plant	<i>Placodiscus attenuatus</i>	
EN	1	Plant	<i>Neolemonniera clitandrifolia</i>	
EN	1	Plant	<i>Tieghemella heckelii</i>	
EN	4	Fish	<i>Limbochromis robertsi</i>	
EN	1	Amphibian	<i>Hyperolius bobirensis</i>	Bobiri Reed Frog
EN	1	Amphibian	<i>Phrynobatrachus ghanensis</i>	Ghana River Frog
EN	1	Amphibian	<i>Amnirana occidentalis</i>	Ivory Coast Frog
EN	1	Bird	<i>Psittacus erithacus</i>	Grey Parrot
EN	1	Mammal	<i>Cercopithecus roloway</i>	Roloway Monkey
EN†	1	Mammal	<i>Cercocebus lunulatus</i>	White-naped Mangabey
VU	1	Plant	<i>Antrocaryon micraster</i>	
VU	1	Plant	<i>Piptostigma fugax</i>	
VU	1	Plant	<i>Xylopia elliotii</i>	
VU	1	Plant	<i>Alafia whytei</i>	
VU	1	Plant	<i>Cussonia bancoensis</i>	
VU	1	Plant	<i>Pararistolochia goldieana</i>	
VU	4	Plant	<i>Cordia platythyrsa</i>	
VU	1	Plant	<i>Dactyladenia dinklagei</i>	
VU	1	Plant	<i>Garcinia epunctata</i>	
VU	1	Plant	<i>Garcinia kola</i>	
VU	1	Plant	<i>Terminalia ivorensis</i>	
VU	1	Plant	<i>Tapura ivorensis</i>	
VU	1	Plant	<i>Shirakiopsis aubrevillei</i>	
VU	1	Plant	<i>Afzelia africana</i>	
VU	1	Plant	<i>Albizia ferruginea</i>	
VU	1	Plant	<i>Copaifera salikounda</i>	
VU	1	Plant	<i>Gilbertiodendron splendidum</i>	
VU	1	Plant	<i>Anthocleista microphylla</i>	
VU	1	Plant	<i>Cola reticulata</i>	
VU	1	Plant	<i>Nesogordonia papaverifera</i>	
VU	1	Plant	<i>Pterygota macrocarpa</i>	
VU	1	Plant	<i>Tarrietia utilis</i>	
VU	1	Plant	<i>Entandrophragma angolense</i>	
VU	1	Plant	<i>Entandrophragma candollei</i>	
VU	1	Plant	<i>Entandrophragma cylindricum</i>	
VU	1	Plant	<i>Entandrophragma utile</i>	
VU	1	Plant	<i>Khaya anthotheca</i>	
VU	1	Plant	<i>Khaya ivorensis</i>	
VU	1	Plant	<i>Leplaea cedrata</i>	
VU	1	Plant	<i>Leplaea thompsonii</i>	
VU	1	Plant	<i>Lovoa trichilloides</i>	
VU	1	Plant	<i>Turraeanthus africanus</i>	
VU	1	Plant	<i>Milicia regia</i>	
VU	1	Plant	<i>Lophira alata</i>	

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VU	1	Plant	<i>Phyllanthus profusus</i>	
VU	1	Plant	<i>Drypetes afzelii</i>	
VU	1	Plant	<i>Drypetes pellegrinii</i>	
VU	1	Plant	<i>Anopyxis klaineana</i>	
VU	1	Plant	<i>Calycosiphonia macrochlamys</i>	
VU	1	Plant	<i>Mitragyna stipulosa</i>	
VU	1	Plant	<i>Nauclea diderrichii</i>	
VU	1	Plant	<i>Pavetta mollissima</i>	
VU	1	Plant	<i>Robynsia glabrata</i>	
VU	1	Plant	<i>Placodiscus boya</i>	
VU	1	Plant	<i>Placodiscus bracteosus</i>	
VU	1	Plant	<i>Dracaena viridiflora</i>	
VU	1	Invert	<i>Mylothris atewa</i>	Atewa Dotted Border
VU	1	Fish	<i>Tilapia busumana</i>	
VU	1	Fish	<i>Barbus walkeri</i>	
VU	1	Amphibian	<i>Kassina arboricola</i>	Ivory Coast Running Frog
VU	1	Reptile	<i>Osteolaemus tetraspis</i>	West African Dwarf Crocodile
VU	1	Bird	<i>Bycanistes cylindricus</i>	Brown-cheeked Hornbill
VU	1	Bird	<i>Ceratogymna elata</i>	Yellow-casqued Hornbill
VU	1	Bird	<i>Lobotos lobatus</i>	Western Wattled Cuckooshrike
VU	1	Bird	<i>Melaenornis annamarulae</i>	Nimba Flycatcher
VU	1	Bird	<i>Criniger olivaceus</i>	Yellow-bearded Greenbul
VU	1	Mammal	<i>Colobus vellerosus</i>	White-thighed Colobus
VU	1	Mammal	<i>Phataginus tetradactyla</i>	Long-tailed Pangolin
VU	1	Mammal	<i>Phataginus tricuspis</i>	White-bellied Pangolin
VU	1	Mammal	<i>Caracal aurata</i>	Golden Cat
NT	1	Plant	<i>Justicia guineensis</i>	
NT	4	Plant	<i>Uvariadendron connivens</i>	
NT	1	Plant	<i>Gilbertiodendron limba</i>	
NT	1	Plant	<i>Milicia excelsa</i>	
NT	1	Plant	<i>Vepris suaveolens</i>	
NT	1	Fish	<i>Epiplatys chaperi</i>	Toothed Carp
NT	1	Amphibian	<i>Astylosternus laticephalus</i>	Broad-headed Night Frog
NT	1	Amphibian	<i>Leptopelis macrotis</i>	Big-eyed Forest Treefrog
NT	1	Amphibian	<i>Leptopelis occidentalis</i>	Tai Forest Treefrog
NT	1	Amphibian	<i>Sclerophrys togoensis</i>	Togo Toad
NT	1	Amphibian	<i>Acanthixalus sorjajae</i>	Ivory Coast Wart Frog
NT	1	Amphibian	<i>Afrixalus vibekensis</i>	Nimba Banana Frog
NT	1	Amphibian	<i>Phrynobatrachus alleni</i>	Allen's River Frog
NT	1	Bird	<i>Stephanoaetus coronatus</i>	Crowned Eagle
NT	1	Bird	<i>Parmoptila rubrifrons</i>	Red-fronted Antpecker
NT	1	Bird	<i>Melignomon eisentrauti</i>	Yellow-footed Honeyguide
NT	1	Bird	<i>Merops mentalis</i>	Blue-moustached Bee-eater
NT	1	Bird	<i>Illadopsis rufescens</i>	Rufous-winged Illadopsis
NT	1	Bird	<i>Bleda eximius</i>	Green-tailed Bristlebill
NT	1	Bird	<i>Hylopsar cupreocauda</i>	Copper-tailed Starling
NT	1	Mammal	<i>Crocidura grandiceps</i>	Large-headed Shrew
NT	1	Mammal	<i>Eidolon helvum</i>	Straw-coloured Fruit Bat
NT	1	Mammal	<i>Procolobus verus</i>	Olive Colobus
NT	1	Mammal	<i>Cephalophus dorsalis</i>	Bay Duiker
NT	1	Mammal	<i>Cephalophus silvicultor</i>	Yellow-backed Duiker
DD	1	Invert	<i>Iolous carolinae</i>	Caroline's Sapphire
DD	1	Invert	<i>Papilio antimachus</i>	African Giant Swallowtail
DD	1	Mammal	<i>Anomalurus pelii</i>	Pel's Flying Squirrel
DD	1	Mammal	<i>Heliosciurus punctatus</i>	Small Sun Squirrel
DD	1	Mammal	<i>Protoxerus aubinnii</i>	Slender-tailed Squirrel

* Not yet assessed by IUCN but likely meeting the criteria for CR.

† Suspected to meet the criteria for CR.

L: location of record. 1 = inside forest reserve, 4 = in surrounding landscape

Appendix 3 – Plants

Plant list for Atewa Range Forest Reserve arranged alphabetically by family in the sequence: Liverworts, Mosses, Fern Allies, Ferns, Dicotyledons, Monocotyledons. Nomenclature largely follows African Plant Database with APG3 families. Cyperaceae follow Govaerts *et al.* (2018) Plant name from source is shown in square brackets where it differs from that in the accepted list. Source numbers in square brackets indicate where the source recorded the parent name only rather than any variant or subspecies shown.

RL: IUCN Red List categories as of March 2018.

ST: Star rating (long used by forest managers in Ghana) are a measure of scarcity based on the number of degree squares occupied globally. BL (Black) mean of 2.7 squares, GD (Gold) mean of 8, BU (Blue) mean of 24, and GN (Green) mean of 72 squares (Marshall *et al.* 2016).

L: location with respect to Forest Reserve boundary as far as can be inferred from the sources. 1= inside the boundary, 2 = within 200 metres of the boundary, 3 = within 500 metres of the boundary, 4 = in the landscape surrounding Atewa. For each species only the lowest location value is reported.

RL	ST	L	Family	Name [synonym]	Source
		1	Bryaceae	<i>Brachymenium nepalense</i>	5
		1	Bryaceae	<i>Bryum mildeanum</i> [<i>B. apiculatum</i> Schwaegrichen]	5; G19
		1	Calymperaceae	<i>Calymperes afzelii</i> Swartz, 1818	5; G19; G31
		1	Calymperaceae	<i>Calymperes erosum</i> Müll. Hal.	5; G19
		1	Calymperaceae	<i>Calymperes palisotii</i>	5
		1	Calymperaceae	<i>Calymperes pallidum</i>	5
		1	Calymperaceae	<i>Leucophanes angustifolium</i> Renauld & Cardot in Renauld, 1891	5; G19
		1	Calymperaceae	<i>Leucophanes molleri</i> Müll. Hal.	5; G19; G31
		1	Calymperaceae	<i>Syrrhopodon africanus</i> subsp. <i>africanus</i>	[5]; G19
		1	Calymperaceae	<i>Syrrhopodon cryptocarpus</i> [<i>Chameleion cryptocarpus</i>]	5; G19
		1	Calymperaceae	<i>Syrrhopodon gardneri</i> Schwaegrichen, 1824	5; G19; G31
		1	Calymperaceae	<i>Syrrhopodon parasiticus</i> (Brid.) Besch.	5; G19
		1	Calymperaceae	<i>Syrrhopodon perdusenii</i> W. D. Reese, 1994	5; G19
		1	Daltoniaceae	<i>Lepidopilum niveum</i>	5
		1	Dicranaceae	<i>Campylopus hensii</i> Renauld & Cardot, 1897	5; G19
		1	Dicranaceae	<i>Campylopus savannarum</i> Mitten, 1869	5; G19
		1	Dicranaceae	<i>Leucobryum cameruniae</i> C. Möller ex Renauld & Cardot, 1900	5; G19
		1	Dicranaceae	<i>Microdus subnitidulus</i> [<i>Leptotrichella subnitidula</i>]	5; G19
		1	Fissidentaceae	<i>Fissidens danckelmanii</i>	5
		1	Fissidentaceae	<i>Fissidens glaucissimus</i> Welwitsch & Duby, 1872	5; G19
		1	Fissidentaceae	<i>Fissidens grandifolius</i> Brotherus & Potier de la Varde, 1926	5; G19
		1	Fissidentaceae	<i>Fissidens intramarginatus</i>	5
		1	Fissidentaceae	<i>Fissidens lachmannii</i>	5
		1	Fissidentaceae	<i>Fissidens marthae</i> Cardot, 1908	5; G19
		1	Fissidentaceae	<i>Fissidens microcarpus</i> Mitten, 1863	5; G19
		1	Fissidentaceae	<i>Fissidens pellucidus</i> var. <i>pellucidus</i>	[5]; G19
		1	Fissidentaceae	<i>Fissidens porrectus</i>	5
		1	Fissidentaceae	<i>Fissidens punctulatus</i> Sande Lacoste, 1872	5; G19
		1	Fissidentaceae	<i>Fissidens ramulosus</i> Mitten, 1860	5; G19
		1	Fissidentaceae	<i>Fissidens sciophyllus</i> Mitten, 1860	5; G19
		1	Fissidentaceae	<i>Fissidens submarginatus</i> Bruch ex Krauss	5; G19
		1	Fissidentaceae	<i>Fissidens weirii</i> var. <i>weirii</i>	[5]; G19
		1	Hookeriaceae	<i>Hookeria seychellensis</i> [<i>Callicostella seychellensis</i>]	5; G19
		1	Hypnaceae	<i>Ectropothecium afromolluscum</i> Brotherus, 1897	5; G19
		1	Hypnaceae	<i>Ectropothecium revolutum</i> Brotherus, 1897	5; G19

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1	Hypnaceae	<i>Hypnum regulare</i> [<i>Ectropothecium regulare</i>]	5; G19
1	Hypnaceae	<i>Isopterygium conangium</i> Brotherus, 1897	5; G19
1	Hypnaceae	<i>Isopterygium gabonense</i> Brotherus & Potier de la Varde, 1925	5; G19
1	Hypnaceae	<i>Isopterygium palmarum</i> Brotherus, 1908	5; G19
1	Hypnaceae	<i>Rhacopilopsis trinitensis</i> Britton & Dixon, 1927	5; G19; G31
1	Hypnaceae	<i>Rhacopilopsis variegata</i>	5
1	Hypnaceae	<i>Vesicularia galerulata</i> Brotherus, 1908	5; G19
1	Leucomiaceae	<i>Leucomium strumosum</i> Mitten, 1869	5; G19
1	Meteoriaceae	<i>Aerobryopsis capensis</i> Fleischer, 1905	5; G19
1	Meteoriaceae	<i>Floribundaria floribunda</i> Fleischer, 1905	5; G19; G31
1	Meteoriaceae	<i>Orthostichella versicolor</i> B. H. Allen & W. R. Buck, 2003	5; G19
1	Meteoriaceae	<i>Orthostichella welwitschii</i>	5
1	Neckeraceae	<i>Homaliidendron piniforme</i> Enroth, 1990	5; G19
1	Neckeraceae	<i>Neckeropsis disticha</i> Kindberg, 1894	5; G19
1	Neckeraceae	<i>Neckeropsis foveolata</i> Brotherus, 1925	5; G19
1	Neckeraceae	<i>Neckeropsis liliana</i>	5
1	Neckeraceae	<i>Pinnatella minuta</i> Brotherus, 1906	5; G19
1	Neckeraceae	<i>Porotrichum elongatum</i> Gepp in Hiern, 1901	G19; 5
1	Neckeraceae	<i>Porotrichum quintasii</i> Brotherus, 1890	5; G19
1	Neckeraceae	<i>Porotrichum stipitatum</i> W. R. Buck, 2003	5; G19
1	Neckeraceae	<i>Porotrichum substriatum</i> [<i>P. caudatum</i>]	5; G19
1	Octoblepharaceae	<i>Octoblepharum albidum</i> Hedwig, 1801	5; G31
1	Orthotrichaceae	<i>Groutiella tomentosa</i> [<i>G. laxotorquata</i> Wijk & Margadant]	5; G19; G31
1	Orthotrichaceae	<i>Macromitrium sulcatum</i> Bridel, 1826	5; G19
1	Pilotrichaceae	<i>Callicostella africana</i> Mitten, 1860	5; G19
1	Pilotrichaceae	<i>Callicostella attenuata</i> Brotherus, 1907	5; G19
1	Pilotrichaceae	<i>Callicostella erosotruncata</i> Cardot, 1909	5; G19
1	Pilotrichaceae	<i>Callicostella gabonensis</i> Brotherus & Potier de la Varde & Potier de la Varde, 1925	5; G19
1	Pilotrichaceae	<i>Callicostella perpapillata</i> Brotherus & Potier de la Varde in Potier de la Varde, 1925	5; G19
1	Pilotrichaceae	<i>Cyclodictyon krebedjense</i> Brotherus, 1912	5; G19
1	Pilotrichaceae	<i>Cyclodictyon vallis-gratiae</i> Kuntze, 1891	5; G19
1	Pilotrichaceae	<i>Lepidopilidium devexum</i> Brotherus, 1907	5; G19
1	Pottiaceae	<i>Bryoerythrophyllum campylocarpum</i>	5
1	Pottiaceae	<i>Hyophila involuta</i> Jaeger, 1873	5; G19
1	Pterobryaceae	<i>Jaegerina scariosa</i>	5
1	Pterobryaceae	<i>Orthostichidium involutifolium</i> Brotherus, 1906	5; G19
1	Racopilaceae	<i>Racopilum africanum</i> Mitten, 1863	5; G19
1	Racopilaceae	<i>Racopilum buettneri</i>	5
1	Racopilaceae	<i>Racopilum crassicuspidatum</i> Thériot & Corbière, 1912	5; G19
1	Racopilaceae	<i>Racopilum marginatum</i> Dixon, 1918	5; G19
1	Sematophyllaceae	<i>Radulina borbonica</i> W. R. Buck, 1993	5; G19
1	Sematophyllaceae	<i>Sematophyllum fulvifolium</i>	5
1	Sematophyllaceae	<i>Sematophyllum subpinnatum</i> Britton, 1918	5; G19
1	Sematophyllaceae	<i>Sematophyllum subsimplex</i> Mitten, 1869	5; G19
1	Sematophyllaceae	<i>Taxithelium planum</i>	5
1	Sematophyllaceae	<i>Trichosteleum chrysophyllum</i> Potier de la Varde, 1931	5; G19
1	Thuidiaceae	<i>Pelekium gratum</i> Touw, 2001	5; G19
1	Thuidiaceae	<i>Pelekium varians</i> Touw, 2001	5; G19
1	Aneuraceae	<i>Aneura pseudopinguis</i>	5
1	Aneuraceae	<i>Riccardia amazonica</i>	5
1	Aneuraceae	<i>Riccardia limbata</i>	5
1	Cephalozellaceae	<i>Cylindrocolea nigerica</i> (E.W. Jones) R.M. Schust.	5; G19
1	Geocalycaceae	<i>Heteroscyphus dubius</i> (Gradst.) Schiffner	5; G19
1	Jubulaceae	<i>Frullania apicalis</i> Mitt.	5; G19
1	Jubulaceae	<i>Frullania apiculata</i>	5
1	Jubulaceae	<i>Frullania diptera</i> (Lehm.) Gottsche, Lindenb. & Nees	5; G19
1	Jubulaceae	<i>Frullania eplicata</i> Stephani	5; G19
1	Jubulaceae	<i>Frullania spongiosa</i> Stephani	5; G19
1	Jubulaceae	<i>Frullania variegata</i>	5

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1	Lejeuneaceae	<i>Acanthocoleus chrysophyllus</i> [<i>Cololejeunea obtusifolia</i>]	5; G19
1	Lejeuneaceae	<i>Acrolejeunea emergens</i>	5
1	Lejeuneaceae	<i>Aphanolejeunea jovetastiana</i>	5
1	Lejeuneaceae	<i>Archilejeunea abbreviata</i> (Mitt.) Vanden Berghen	5; G19
1	Lejeuneaceae	<i>Archilejeunea africana</i> Stephani	5; G19
1	Lejeuneaceae	<i>Caudalejeunea hanningtonii</i>	5
1	Lejeuneaceae	<i>Ceratolejeunea calabariensis</i> Stephani	5; G19
1	Lejeuneaceae	<i>Cheilolejeunea cordistipula</i>	5
1	Lejeuneaceae	<i>Cheilolejeunea intertexta</i>	5
1	Lejeuneaceae	<i>Cheilolejeunea serpentina</i> (Mitt.) Mizut.	5; G19
1	Lejeuneaceae	<i>Cheilolejeunea trifaria</i> (Reinw. et al.) Mizut.	5; G19
1	Lejeuneaceae	<i>Cololejeunea androphylla</i> E.W. Jones	5; G19
1	Lejeuneaceae	<i>Cololejeunea bolombensis</i>	5
1	Lejeuneaceae	<i>Cololejeunea elegans</i>	5
1	Lejeuneaceae	<i>Cololejeunea lanceolata</i>	5
1	Lejeuneaceae	<i>Cololejeunea obliqua</i> (Nees & Mont.) Schiffn.	5; G19
1	Lejeuneaceae	<i>Cololejeunea pusilla</i>	5
1	Lejeuneaceae	<i>Cololejeunea zenkeri</i>	5
1	Lejeuneaceae	<i>Colura digitalis</i>	5
1	Lejeuneaceae	<i>Colura duseunii</i>	5
1	Lejeuneaceae	<i>Diplasiolejeunea aulae</i>	5
1	Lejeuneaceae	<i>Drepanolejeunea cultrella</i>	5
1	Lejeuneaceae	<i>Drepanolejeunea physaefolia</i>	5
1	Lejeuneaceae	<i>Lejeunea anisophylla</i>	5
1	Lejeuneaceae	<i>Lejeunea autoica</i>	5
1	Lejeuneaceae	<i>Lejeunea brenanii</i> E.W. Jones	5; G19
1	Lejeuneaceae	<i>Lejeunea confusa</i>	5
1	Lejeuneaceae	<i>Lejeunea eckloniana</i> Lindenb.	5; G19
1	Lejeuneaceae	<i>Lejeunea flava</i>	5
1	Lejeuneaceae	<i>Lejeunea kamerunensis</i> [<i>Microlejeunea kamerunensis</i>]	5; G19
1	Lejeuneaceae	<i>Lejeunea ramosissima</i>	5
1	Lejeuneaceae	<i>Lejeunea setacea</i> (Stephani) Stephani	5; G19
1	Lejeuneaceae	<i>Lejeunea villaumei</i>	5
1	Lejeuneaceae	<i>Leptocolea cuneifolia</i> [<i>Cololejeunea cuneifolia</i>]	5
1	Lejeuneaceae	<i>Leptolejeunea astroidea</i>	5; G19
1	Lejeuneaceae	<i>Leptolejeunea maculata</i>	5
1	Lejeuneaceae	<i>Lopholejeunea nigricans</i>	5
1	Lejeuneaceae	<i>Lopholejeunea subfusca</i> (Nees) Schiffn.	5; G19
1	Lejeuneaceae	<i>Marchesinia excavata</i>	5
1	Lejeuneaceae	<i>Mastigolejeunea auriculata</i> (Wilson) Schiffn.	5; G19
1	Lejeuneaceae	<i>Mastigolejeunea nigra</i> Steph.	5; G19
1	Lejeuneaceae	<i>Microlejeunea africana</i> Steph.	5; G19
1	Lejeuneaceae	<i>Odontolejeunea lunulata</i> (F.Weber) Schiffn.	5; G19
1	Lejeuneaceae	<i>Prionolejeunea grata</i> (Gottsche) Schiffn.	5; G19
1	Lejeuneaceae	<i>Pycnolejeunea contigua</i>	5
1	Lejeuneaceae	<i>Schiffneriolejeunea fragilis</i> Gradst. & E.W. Jones	5; G19
1	Lejeuneaceae	<i>Schiffneriolejeunea pappeana</i> var. <i>pappeana</i>	[5]; G19
1	Lejeuneaceae	<i>Stictolejeunea balfourii</i> (Mitt.) E.W. Jones	5; G19
1	Lejeuneaceae	<i>Taxilejeunea pulchriflora</i>	5
1	Lepidoziaceae	<i>Bazzania decrescens</i> (Lehm. & Lindenb.) Trevis.	5; G19
1	Lepidoziaceae	<i>Lepidozia succida</i> Mitt.	5; G19
1	Lepidoziaceae	<i>Telaranea coactilis</i>	5
1	Lepidoziaceae	<i>Telaranea nematodes</i> (Gottsche ex Austin) M.A.Howe	5; G19
1	Lophocoleaceae	<i>Cryptolophocolea martiana</i>	5
1	Metzgeriaceae	<i>Metzgeria australis</i> [<i>M. madagassa</i>]	5
1	Metzgeriaceae	<i>Metzgeria furcata</i> (L.) Dum.	5; G19
1	Metzgeriaceae	<i>Metzgeria saxbyi</i> Pearson	5; G19
1	Plagiochilaceae	<i>Plagiochila fusifera</i> Taylor	5; G19
1	Plagiochilaceae	<i>Plagiochila integerrima</i>	5

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1	Plagiochilaceae	<i>Plagiochila moenkemeyeri</i> Steph.	5; G19
1	Plagiochilaceae	<i>Plagiochila neckeroidea</i> Mitt.	5; G19
1	Plagiochilaceae	<i>Plagiochila pectinata</i>	5
1	Plagiochilaceae	<i>Plagiochila praemorsa</i> Steph.	5; G19
1	Plagiochilaceae	<i>Plagiochila salvadorica</i>	5
1	Plagiochilaceae	<i>Plagiochila strictifolia</i> Stephani	5; G19
1	Radulaceae	<i>Radula appressa</i> Mitt.	5; G19
1	Radulaceae	<i>Radula boryana</i> (F. Weber) Nees	5; G19
1	Radulaceae	<i>Radula flaccida</i> Lindenb. & Gottsche	5; G19
1	Radulaceae	<i>Radula holstiana</i> Stephani	5; G19
1	Radulaceae	<i>Radula stenocalyx</i> Mont.	5; G19
1	Radulaceae	<i>Stephanina fulvifolia</i> (Hook.f. & Taylor) Gottsche et al. [<i>Radula fulvifolia</i> (Hook.f. & Taylor) Gottsche et al.]	5; G19
GN 1	Aspleniaceae	<i>Asplenium africanum</i> Desv.	3; 4; 7; G29
GN 1	Aspleniaceae	<i>Asplenium barteri</i> Hook.	3; 4
GN 1	Aspleniaceae	<i>Asplenium dregeanum</i> Kunze	3
GN 4	Aspleniaceae	<i>Asplenium hemitomum</i> Hieron.	G29
BU 4	Aspleniaceae	<i>Asplenium megalura</i> Hieron. ex Brause	G16
BK 1	Aspleniaceae	<i>Asplenium schnellii</i> Tard.	Hall & Swaine 1981 (in 7); 4
GN 1	Aspleniaceae	<i>Asplenium unilaterale</i> Lam.	8; G17; G29; G31
gn 1	Aspleniaceae	<i>Asplenium variabile</i> Hook. var. <i>variabile</i>	G17; G31
BU 4	Athyriaceae	<i>Diplazium welwitschii</i> (Hook.) Diels	G29
gn 3	Cyatheaceae	<i>Cyathea camerooniana</i> Hook. var. <i>occidentalis</i> Holttum	G31
GN 1	Cyatheaceae	<i>Cyathea manniana</i> Hook.	3; 4; 7; G16; G31
gn 4	Davalliaceae	<i>Nephrolepis biserrata</i>	G29
GN 1	Davalliaceae	<i>Nephrolepis undulata</i> (Afzel. ex Sw.) J.Sm.	G17; G31
GN 1	Dennstaedtiaceae	<i>Blotiella currorii</i> (Hook.) R.M. Tryon [<i>Lonchitis currori</i> (Hook.) Mett. ex Kuhn]	3; 4; 4; G17; G31
GN 1	Dryopteridaceae	<i>Bolbitis auriculata</i> (Lam.) Alston	3; G22; G29; G31
GN 1	Dryopteridaceae	<i>Bolbitis gemmifera</i> (Hieron.) C.Chr.	3
GN 3	Dryopteridaceae	<i>Ctenitis cirrhosa</i> (Schum.) Ching	G29
GN 1	Dryopteridaceae	<i>Ctenitis pilosissima</i> (J. Sm.) Alston	4
GN 1	Dryopteridaceae	<i>Dryopteris securidiformis</i>	8; G17; G31
GN 1	Dryopteridaceae	<i>Elaphoglossum acrostichoides</i> (Hook. & Grev.) Schelpe	G22
BU 1	Dryopteridaceae	<i>Elaphoglossum barteri</i> (Baker) C.Chr.	G22
GN 1	Hymenophyllaceae	<i>Abrodictyum cupressoides</i> (Desv.) Ebihara & Dubuisson [<i>Trichomanes cupressoides</i> Desv.]	8; G17
GN 4	Hymenophyllaceae	<i>Didymoglossum erosum</i> (Willd.) J.P.Roux	G16
GN 4	Hymenophyllaceae	<i>Didymoglossum liberiense</i> (Copel.) Copel.	G29
GN 1	Lomariopsidaceae	<i>Lomariopsis guineensis</i> (Underw.) Alston	3; 4; G29
BU 1	Lomariopsidaceae	<i>Lomariopsis rossii</i> Holttum	3; 4
GN 2	Lygodiaceae	<i>Lygodium smithianum</i> Presl ex Kuhn	G17; G22; G29; G31
BU 1	Marattiaceae	<i>Ptisana fraxinea</i>	G31
GN 1	Oleandraceae	<i>Arthropteris monocarpa</i> (Cordem.) C.Chr.	3; 4
GN 1	Oleandraceae	<i>Arthropteris palisotii</i> (Desv.) Alston	3; G29
GN 1	Oleandraceae	<i>Oleandra distenta</i> Kunze	3; 4; G17; G29; G31
BK 4	Oleandraceae	<i>Oleandra ejurana</i> Adams	G29
GN 1	Polypodiaceae	<i>Drynaria laurentii</i> (Christ) Hieron.	Hall & Swaine 1981 (in 7); 4
GN 1	Polypodiaceae	<i>Microgramma mauritiana</i> (Willd.) Tardieu [<i>M. lycopodioides</i> (L.) Copel; <i>M. owariensis</i> (Desv.) Alton]	3; 4; 4
GN 1	Polypodiaceae	<i>Microsorium punctatum</i> (L.) Copel.	3
GN 1	Polypodiaceae	<i>Platyterium stemaria</i> (P. Beauv.) Desv.	3; G31; G34
BU 4	Pteridaceae	<i>Pellaea dura</i> (Willd.) Hook. [<i>P. doniana</i> (J. Sm.) Hook.]	G36
GN 1	Pteridaceae	<i>Pityrogramma calomelanos</i> (L.) Link	G17; G31; G36
GN 4	Pteridaceae	<i>Pteris atrovirens</i> Willd.	G29
GN 1	Pteridaceae	<i>Pteris burtonii</i> Baker	3; G29; G36
BU 1	Pteridaceae	<i>Pteris togoensis</i> Hieron.	3
GN 4	Pteridaceae	<i>Pteris tripartita</i> Sw.	G29
gn 1	Pteridaceae	<i>Vittaria guineensis</i> Desv. var. <i>guineensis</i>	G22
BU 1	Tectariaceae	<i>Tectaria fernandensis</i> (Baker) C.Chr.	3

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	GN 1	Tectariaceae	<i>Triplophyllum jenseniae</i> (C.Chr.) Holtt.	3; 4; 7; G31
	GN 1	Tectariaceae	<i>Triplophyllum protensum</i> (Afzel. ex Sw.) Holtt. [<i>Ctenitis protensa</i> (Afzel. ex Sw.) Ching]	4; G29
	GN 1	Tectariaceae	<i>Triplophyllum vogelii</i> (Hook.) Holtt.	3; 4
	GN 1	Thelypteridaceae	<i>Pneumatopteris afra</i> (Christ) Holtt.	3; 4
	GN 2	Lycopodiaceae	<i>Lycopodiella cernua</i> (L.) Pic.Serm.	G17; G31
	BU 1	Selaginellaceae	<i>Selaginella blepharophylla</i> Alston	4; 8
	GN 4	Selaginellaceae	<i>Selaginella molliceps</i> Spring	G29
	GN 1	Selaginellaceae	<i>Selaginella myosurus</i> (Sw.) Alston	G17; G31
	GN 1	Selaginellaceae	<i>Selaginella versicolor</i> Spring	8; G17; G31
	GN 1	Selaginellaceae	<i>Selaginella vogelii</i> Spring	3
	BU 1	Acanthaceae	<i>Acanthus guineensis</i> Heine & P. Taylor	FWTA; 3; 4; 7; 8; G17; G31
LC	GN 1	Acanthaceae	<i>Acanthus montanus</i> (Nees) T. Anderson	G31
	BU 1	Acanthaceae	<i>Asystasia buettneri</i> Lindau	3; 4; G17; G31
	BU 1	Acanthaceae	<i>Barleria oenotheroides</i> Dum. Cours.	FWTA; G17
LC	GN 1	Acanthaceae	<i>Brillantaisia owariensis</i> P. Beauv.	4; 8; G17; G31
	GN 1	Acanthaceae	<i>Brillantaisia vogeliana</i> (Nees) Benth.	FWTA; G17; G45
	BU 4	Acanthaceae	<i>Dicliptera laxispica</i> Lindau	G29
	BU 4	Acanthaceae	<i>Dicliptera obanensis</i> S. Moore	FWTA
	BU 4	Acanthaceae	<i>Elytraria acaulis</i> (L. f.) Lindau	G17
	GN 4	Acanthaceae	<i>Elytraria marginata</i> Vahl	G29
	GN 3	Acanthaceae	<i>Eremomastax speciosa</i> (Hochst.) Cufod.	G17; G29; G31
	BU 3	Acanthaceae	<i>Justicia biokoensis</i> V.A. W. Graham	G17; G31
	GN 4	Acanthaceae	<i>Justicia extensa</i> T. Anderson	G17
	GN 1	Acanthaceae	<i>Justicia flava</i> (Vahl) Vahl	G17; G29; G31
NT	BU 1	Acanthaceae	<i>Justicia guineensis</i> (Heine) W.D. Hawth. [<i>Adhatoda guineensis</i>]	4; 8; 8; G31
	GN 1	Acanthaceae	<i>Justicia tenella</i> (Nees) T. Anderson	4; 8; G17; G22; G29; G31
	BU 4	Acanthaceae	<i>Lankesteria brevior</i> C.B. Clarke	G29
	GN 1	Acanthaceae	<i>Lankesteria elegans</i> (P. Beauv.) T. Anderson	7
	GN 4	Acanthaceae	<i>Lepidagathis alopecuroides</i> (Vahl) R. Br. ex Griseb.	G29
	BU 1	Acanthaceae	<i>Mendoncia combretoides</i> (A. Chev.) Benoist	4; 8
LC	GN 4	Acanthaceae	<i>Phaulopsis angolana</i> S. Moore [<i>P. silvestris</i> (Lindau) Lindau]	FWTA; G29
	GN 1	Acanthaceae	<i>Phaulopsis ciliata</i> (Willd.) Hepper [<i>P. falcisepala</i> C. B. Cl.]	FWTA; 4; 8; G17; G22; G29
	GN 1	Acanthaceae	<i>Pseuderanthemum ludovicianum</i> (Büttner) Lindau	FWTA
	GN 1	Acanthaceae	<i>Pseuderanthemum tunicatum</i> (Afzel.) Milne-Redh.	3; 4; 8; G17; G29; G31
LC	GN 1	Acanthaceae	<i>Rhinacanthus virens</i> (Nees) Milne-Redh.	4; 8; G17; G31
LC	BU 1	Acanthaceae	<i>Ruellia primuloides</i> (T. Anderson ex Benth.) Heine [<i>Endosiphon primuloides</i> T. Anders. ex Benth.]	FWTA; 3; 4; 8; G17; G29; G31
	BU 1	Acanthaceae	<i>Staurogyne capitata</i> E. A. Bruce	3; 4; G29
LC	GN 1	Acanthaceae	<i>Stenandrium guineense</i> (Nees) Vollesen [<i>Crossandra guineensis</i> Nees]	FWTA; 3; 4; G29
	GN 4	Acanthaceae	<i>Thunbergia alata</i> Bojer ex Sims	G29
	BU 4	Acanthaceae	<i>Thunbergia chrysops</i> Hook.	FWTA
	BU 1	Acanthaceae	<i>Thunbergia vogeliana</i> Benth.	3; 4
	GN 1	Achariaceae	<i>Dasylepis racemosa</i> Oliv. [<i>D. brevipedicellata</i> Chipp]	3; 4; 8; G17
	GN 1	Achariaceae	<i>Scottellia klaineana</i> Pierre	2; 3; 4; 7
	gn 4	Amaranthaceae	<i>Cyathula prostrata</i> (L.) Blume var. <i>pedicellata</i> (C.B. Clarke) Cavaco [<i>C. pedicellata</i> C. B. Clarke]	G17; G29; [G31]
VU	GN 1	Anacardiaceae	<i>Antrocaryon micraster</i> A. Chev. & Guillaumin	IBAT; 2; 3; 4; 7
	GN 1	Anacardiaceae	<i>Lannea welwitschii</i> (Hiern) Engl.	2; 3; 4; 7; G31
	GN 1	Anacardiaceae	<i>Pseudospondias microcarpa</i> (A. Rich.) Engl.	2; 3; 8; G17; G31
	BU 1	Anacardiaceae	<i>Trichoscypha arborea</i> (A. Chev.) A. Chev.	2; 3; 4; 7; 8; G17; G31
	GN 1	Anacardiaceae	<i>Trichoscypha lucens</i> Oliv.	4; 7
	BU 1	Annonaceae	<i>Annickia polycarpa</i> (DC.) Setten & Maas [<i>Enantia polycarpa</i>]	2; 3; 4; 7; 8; G29
	BU 1	Annonaceae	<i>Anonidium mannii</i> (Oliv.) Engl. & Diels	3; 4; 7
	GN 1	Annonaceae	<i>Artabotrys insignis</i> Engl. & Diels	1; G29
	BU 1	Annonaceae	<i>Artabotrys jollyanus</i> Pierre	4; 8; G17
	BU 1	Annonaceae	<i>Artabotrys oliganthus</i> Engl. & Diels	G31
	GN 1	Annonaceae	<i>Artabotrys stenopetalus</i> Engl. & Diels	3; 4
	GN 1	Annonaceae	<i>Brieya fasciculata</i> (De Wild.) Paiva	

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			<i>[P. fasciculatum</i> (De Wild.) Paiva; (De Wild.) Bout. ex R. E. Fr.]	3; 4; 7; 8; G17; G29; G31	
GN	1	Annonaceae	<i>Cleistopholis patens</i> (Benth.) Engl. & Diels	2; 3; 4; 7	
GN	1	Annonaceae	<i>Duguetia staudtii</i> (Engl. & Diels) Chatrou [<i>Pachypodanthium staudtii</i>]	2; 3; 4; 7	
GN	1	Annonaceae	<i>Greenwayodendron oliveri</i> (Engl.) Verdc.	2; 3; 4; 7; 8; G17; G29; G31; G36	
GN	1	Annonaceae	<i>Hexalobus crispiflorus</i> A. Rich.	2; 3; 4; 7; G29	
BU	1	Annonaceae	<i>Isolona campanulata</i> Engl. & Diels	2; 3; 4; 7	
BU	4	Annonaceae	<i>Isolona cooperi</i> Cooper & Record ex Hutch. & Dalziel	G29	
GN	1	Annonaceae	<i>Isolona hexaloba</i> (Pierre) Engl. & Diels	3; 4	
bu	1	Annonaceae	<i>Mischogyne elliotianum</i> (Engl. & Diels) R. E. Fr. var. <i>glabra</i> (Keay) Evrard [<i>Uvariastrum elliotianum</i> var. <i>glabrum</i> Keay]	FWTA; [4]; 8; G29; [G31]	
CR* BK	1	Annonaceae	<i>Monanthes atewensis</i> P.H. Hoekstra	Hoekstra; 3; 8; G17	
GN	1	Annonaceae	<i>Monanthes barberi</i> (Baill.) Verdc.	3; 4; G17	
GN	1	Annonaceae	<i>Monanthes enghiana</i> (Diels) P. H. Hoekstra [<i>Friesodielsia enghiana</i> (Diels) Verdc.]	3; 4; G17	
BU	1	Annonaceae	<i>Monanthes velutina</i> (Sprague & Hutch.) P. H. Hoekstra [<i>Friesodielsia velutina</i> (Sprague & Hutch.) van Steenis]	3; 8; 4	
EN	BK	1	Annonaceae	<i>Monocyclanthus vignei</i> Keay	IBAT; 4
	BU	1	Annonaceae	<i>Monodora crispata</i> Engl. & Diels	FWTA; 4; 8
	GN	1	Annonaceae	<i>Monodora myristica</i> (Gaertn.) Dunal	2; 3; 4; 7; 8; G17; G29; G31
	GN	1	Annonaceae	<i>Monodora tenuifolia</i> Benth.	2; 3; 4; 7; G29; G31
	BU	1	Annonaceae	<i>Neostenanthera gabonensis</i> (Engl. & Diels) Exell	3; 4
VU	BU	1	Annonaceae	<i>Piptostigma fugax</i> A. Chev. ex Hutch. & Dalziel	IBAT; 3; 4; 7; 8; G17; G29; G31
	BU	1	Annonaceae	<i>Uvaria doeringii</i> Diels	3; 4
	BU	1	Annonaceae	<i>Uvaria mocoli</i> De Wild. & T. Durand	1; 3; 4
	GN	1	Annonaceae	<i>Uvariastrum pierreanum</i> Engl.	3; 4; G29
	BU	1	Annonaceae	<i>Uvariadendron calophyllum</i> R. E. Fr.	3; 4; 7; G29
NT	BU	4	Annonaceae	<i>Uvariadendron connivens</i> (Benth.) R. E. Fr.	G29
	BU	1	Annonaceae	<i>Uvariopsis guineensis</i> Keay [<i>U. globiflora</i> Keay]	3; 4; 8; G17; G29; G30; G31
	GN	1	Annonaceae	<i>Xylopiya aethiopica</i> (Dunal) A. Rich.	2; 3; 4; 7
VU	BU	1	Annonaceae	<i>Xylopiya elliotii</i> Engl. & Diels	IBAT; 3; 4; G29
	GN	1	Annonaceae	<i>Xylopiya quintasii</i> Engl. & Diels	2; 3; 4; 7; 8; G17; G29; G31
	GN	1	Annonaceae	<i>Xylopiya rubescens</i> Oliv.	2; 3; 4; 7
	GN	1	Annonaceae	<i>Xylopiya staudtii</i> Engl. & Diels	2; 3; 4; 7
	BU	1	Annonaceae	<i>Xylopiya villosa</i> Chipp	2; 3; 4; 7
	GN	1	Apocynaceae	<i>Alafia barberi</i> Oliv.	1; 7; G29
	GN	1	Apocynaceae	<i>Alafia multiflora</i> (Stapf) Stapf	1
	GN	1	Apocynaceae	<i>Alafia schumannii</i> Stapf	3; 4
VU	GD	1	Apocynaceae	<i>Alafia whytei</i> Stapf	1; 3; 4
	GN	1	Apocynaceae	<i>Alstonia boonei</i> De Wild.	2; 3; 4; 7; G29
	BU	1	Apocynaceae	<i>Baijsea baillonii</i> Hua	3; 4
	GN	1	Apocynaceae	<i>Baijsea leonensis</i> Benth.	3; 4; 7; 8; G17; G31; G41
	GN	1	Apocynaceae	<i>Baijsea multiflora</i> A. DC.	3; 4
	BU	1	Apocynaceae	<i>Callichilia barberi</i> (Hook. f.) Stapf	G17; G31
	BU	1	Apocynaceae	<i>Callichilia subsessilis</i> (Benth.) Stapf	8; G17; G29; G31
	GN	4	Apocynaceae	<i>Cliandra cymulosa</i> Benth.	G29
	GN	1	Apocynaceae	<i>Cryptolepis calophylla</i> (Baill.) L. Joubert & Bruyns [<i>Periploca nigrescens</i> Afzel.; <i>Parquetina nigrescens</i> (Afzel.) Bullock]	1; G17; G22; G31
	BU	1	Apocynaceae	<i>Cryptolepis eburnea</i> (Pichon) Venter [<i>Mangenotia eburnea</i> Pichon]	4
	BU	1	Apocynaceae	<i>Dictyophleba leonensis</i> (Stapf) Pichon	3; 4; 8; G17
	GD	1	Apocynaceae	<i>Epistemma assianum</i> D.V. Field & J.B. Hall	4; 8; G17; G31
	BU	1	Apocynaceae	<i>Farquharia elliptica</i> Stapf	1; G29
	GN	1	Apocynaceae	<i>Funtumia africana</i> (Benth.) Stapf	2; 3; 4; 7
	GN	1	Apocynaceae	<i>Funtumia elastica</i> (P. Preuss) Stapf	2; 3; 4; 7; 8; G17; G29; G31; G41
	GN	1	Apocynaceae	<i>Holarrhena floribunda</i> (G. Don) T. Durand & Schinz	3; 4; G17; G31
	GN	1	Apocynaceae	<i>Hunteria umbellata</i> (K. Schum.) Hallier f. [<i>H. eburnea</i>]	2; 3; 4; 7; 8; 7; G31
	BU	1	Apocynaceae	<i>Landolphia calabarica</i> (Stapf) E. A. Bruce	3; 4; 7
	GN	1	Apocynaceae	<i>Landolphia dulcis</i> (R.Br. ex Sabine) Pichon	1; 3; 4; 8; G17; G31
	GN	1	Apocynaceae	<i>Landolphia foretiana</i> (Pierre ex Jum.) Pichon	4; 7; 8; G17; G31
	GN	1	Apocynaceae	<i>Landolphia hirsuta</i> (Hua) Pichon	1; 7; G29
	GN	1	Apocynaceae	<i>Landolphia incerta</i> (K. Schum.) J.G.M. Pers.	3; 4; 8; G17; G29; G31

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BU	1	Apocynaceae	<i>Landolphia micrantha</i> (A. Chev.) Pichon	3; 4; 7; 8; G17; G31
GN	1	Apocynaceae	<i>Landolphia owariensis</i> P. Beauv.	1; 3; 4; 7; G29; G31
GN	1	Apocynaceae	<i>Marsdenia latifolia</i> (Benth.) K. Schum. [<i>Gongronema latifolium</i> Benth.]	1; 3; 4; G17; G29; G31
GN	1	Apocynaceae	<i>Motandra paniculata</i> (Poir.) I. M. Turner [<i>M. guineensis</i> (Thonn.) A.D.C.]	1; 3; 4; 8; G17; G29; G31
GN	1	Apocynaceae	<i>Oncinotis glabrata</i> (Baill.) Stapf ex Hiern	3; 4; 8; G17; G31
GN	1	Apocynaceae	<i>Oncinotis gracilis</i> Stapf	4; 8; G17; G29
GN	1	Apocynaceae	<i>Oncinotis pontyi</i> Dubard	1; 4; 8; G17; G29
BU	1	Apocynaceae	<i>Orthopichonia barteri</i> (Stapf) H. Huber	3; 4; 8; G17; G29; G31
BU	1	Apocynaceae	<i>Orthopichonia indeniensis</i> (A. Chev.) H. Huber	4; 8; G17; G30; G31
GN	1	Apocynaceae	<i>Pergularia daemia</i> (Forssk.) Chiov.	3; 4
GN	1	Apocynaceae	<i>Picralima nitida</i> (Stapf) T. Durand & H. Durand	2; 3; 4; 7
BU	1	Apocynaceae	<i>Pleiocarpa mutica</i> Benth.	3; 4; 8; G17; G31
GN	1	Apocynaceae	<i>Rauvolfia vomitoria</i> Afzel.	2; 3; 4; 7; 8; G17; G29; G41
BU	1	Apocynaceae	<i>Saba thompsonii</i> (A. Chev.) Pichon	3; 4
GN	1	Apocynaceae	<i>Secamone afzelii</i> (Schult.) K. Schum.	1; G17; G31
BU	1	Apocynaceae	<i>Strophanthus barteri</i> Franch.	3; 4
GN	1	Apocynaceae	<i>Strophanthus gratus</i> (Wall. & Hook.) Baill.	3; 4; 8; G31
GN	1	Apocynaceae	<i>Strophanthus hispidus</i> DC.	7; G29
GN	1	Apocynaceae	<i>Strophanthus preussii</i> Engl. & Pax	4; 8; G17; G29; G31
GN	1	Apocynaceae	<i>Tabernaemontana africana</i> Hook.	3; 4; 7; 8; G17; G31
GN	1	Apocynaceae	<i>Tabernaemontana glandulosa</i> (Stapf) Pichon	3; 4; 8; G29
GN	1	Apocynaceae	<i>Tabernaemontana pachysiphon</i> Stapf	3; 4; 8; G17; G31
GN	4	Apocynaceae	<i>Telosma africana</i> (N.E. Br.) N.E. Br.	G29
BU	1	Apocynaceae	<i>Tylophora conspicua</i> N.E. Br.	4; 8; G17; G31
GN	1	Apocynaceae	<i>Tylophora oblonga</i> N.E. Br.	8; G17; G31
GN	1	Apocynaceae	<i>Tylophora oculata</i> N.E. Br.	4; 8; G31
GN	2	Apocynaceae	<i>Tylophora sylvatica</i> Decne.	G17; G29; G31
BU	1	Apocynaceae	<i>Vahadenia caillei</i> (A. Chev.) Stapf ex Hutch. & Dalziel	3; 4
GN	1	Apocynaceae	<i>Voacanga africana</i> Stapf	2; 7; G17
GN	4	Apocynaceae	<i>Voacanga thouarsii</i> Roem. & Schult.	G17
GN	1	Aptandraceae	<i>Aptandra zenkeri</i> Engl.	G29
GN	1	Aptandraceae	<i>Ongokea gore</i> (Hua) Pierre	2; 3; 4
GN	1	Araliaceae	<i>Astropanax barteri</i> Seem. [<i>Schefflera barteri</i> (Seem.) Harms]	3; 4
VU BU	1	Araliaceae	<i>Cussonia bancoensis</i> Aubrév. & Pellegr.	IBAT; 2; 3; 4; 7; G29
VU BU	1	Aristolochiaceae	<i>Pararistolochia goldieana</i> (Hook. f.) Hutch. & Dalziel	FWTA; 4; 8
GN	1	Aristolochiaceae	<i>Pararistolochia macrocarpa</i> (Duch.) Poncy	3; 4
GN	1	Aristolochiaceae	<i>Pararistolochia promissa</i> (Mast.) Keay	3; 4; G29
GN	1	Asteraceae	<i>Acmella caulirhiza</i> Delile	8; G17; G31
GN	1	Asteraceae	<i>Crassocephalum crepidioides</i> (Benth.) S. Moore	G31
GN	1	Asteraceae	<i>Cyanthillium stelluliferum</i> (Benth.) H. Rob.	G31; G46
GN	1	Asteraceae	<i>Gymnanthemum amygdalinum</i> (Delile) Sch. Bip. ex Walp. [<i>Vernonia amygdalina</i>]	2
GN	1	Asteraceae	<i>Gymnanthemum coloratum</i> (Willd.) H. Rob. & B. Kahn [<i>Vernonia colorata</i> (Willd.) Drake]	3; 4
GN	1	Asteraceae	<i>Microglossa pyrifolia</i> (Lam.) Kuntze	3; 4
GN	4	Asteraceae	<i>Mikania chenopodiifolia</i> Willd.	G17
BU	1	Asteraceae	<i>Mikania natalensis</i> DC.	8
BU	1	Asteraceae	<i>Mikaniopsis tedliei</i> (Oliv. & Hiern) C. D. Adams	3; 4
GN	1	Asteraceae	<i>Struchium sparganophorum</i> (L.) Kuntze [<i>Sparganophorus sparganophora</i> (L.) C. Jeffrey]	3; 4
GN	1	Asteraceae	<i>Synedrella nodiflora</i> (L.) Gaertn.	7; G31; G46
BU	1	Asteraceae	<i>Vernonia andohii</i> C. D. Adams	4; 8
GN	1	Asteraceae	<i>Vernonia doniana</i> DC. [<i>Brenandendron donianum</i> ; <i>Vernonia conferta</i> Benth.]	2; 3; 4; 7
BU	1	Asteraceae	<i>Vernonia titanophylla</i> Brenan	3; 4; 8; G17
GN	1	Balanophoraceae	<i>Thonningia sanguinea</i> Vahl	G31
GN	1	Begoniaceae	<i>Begonia eminii</i> Warb.	FWTA; 3; 4; 8; G29; G31
gn	1	Begoniaceae	<i>Begonia fusialata</i> Warb. subsp. <i>fusialata</i>	[4; 8]; G17; G30; G31
gn	1	Begoniaceae	<i>Begonia fusialata</i> Warb. var. <i>parviflora</i> J. J. de Wilde	[4; 8]; G17
GN	1	Begoniaceae	<i>Begonia macrocarpa</i> Warb.	4; 8; G17; G29; G31
GN	1	Begoniaceae	<i>Begonia oxyloba</i> Welw. ex Hook. f.	4; 8; G17; G31; G46
BU	1	Begoniaceae	<i>Begonia polygonoides</i> Hook. f.	4; 8; G17

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	gn	1	Begoniaceae	<i>Begonia quadrialata</i> Warb. var. <i>pilosa</i> Sosef	[3; 4; 8; G30; G31]; G17
	BU	1	Begoniaceae	<i>Begonia scutifolia</i> Hook. f.	4; 8; G17
LC	GN	1	Bignoniaceae	<i>Kigelia africana</i> (Lam.) Benth.	2; 3; 4; G31
	GN	1	Bignoniaceae	<i>Newbouldia laevis</i> (P. Beauv.) Seem. ex Bureau	2; 3; 4; G31
LC	GN	1	Bignoniaceae	<i>Spathodea campanulata</i> P. Beauv.	2; 3; 4; 7; G34
	BU	1	Bignoniaceae	<i>Stereospermum acuminatissimum</i> K. Schum.	2; 3; 4
LC	BU	1	Boraginaceae	<i>Cordia millenii</i> Baker	2; 3; 4; 7
VU	BU	4	Boraginaceae	<i>Cordia platythyrsa</i> Baker	G29
	BU	1	Boraginaceae	<i>Cordia senegalensis</i> Juss.	2
	BU	1	Boraginaceae	<i>Ehretia trachyphylla</i> C.H. Wright	3; 4
	GN	1	Burseraceae	<i>Canarium schweinfurthii</i> Engl.	2; 3; 4; 7
	GN	1	Burseraceae	<i>Dacryodes klaineana</i> (Pierre) H.J. Lam	2; 3; 4; 7
	GN	4	Cactaceae	<i>Rhipsalis baccifera</i> (J.S. Muell.) Stearn	G29
	GN	1	Calophyllaceae	<i>Mammea africana</i> Sabine	3; 4; 7
	GN	1	Cannabaceae	<i>Celtis adolfi-friderici</i> Engl.	2; 3; 4; 7; G29
	GN	1	Cannabaceae	<i>Celtis gomphophylla</i> Baker	Hawthorne (pers. obs.)
	GN	1	Cannabaceae	<i>Celtis mildbraedii</i> Engl.	2; 3; 4; 7; G29; G31
	GN	1	Cannabaceae	<i>Celtis philippensis</i> Blanco	
				[<i>C. wightii</i> Planch.; <i>C. prantlii</i> Priemer ex Engl.]	2; 3; 4; 4; 8; G17; G29; G31
	GN	1	Cannabaceae	<i>Celtis zenkeri</i> Engl.	2; 3; 4; G29
	GN	1	Cannabaceae	<i>Trema orientalis</i> (L.) Blume	2; 3; 4; 7; G17; G29; G31
	BU	1	Capparaceae	<i>Buchholzia coriacea</i> Engl.	2; 3; 4; 7
	GN	1	Capparaceae	<i>Euadenia eminens</i> Hook. f.	3; 4; G29
	GN	1	Capparaceae	<i>Euadenia trifoliata</i> (Schumach. & Thonn.) Oliv.	3; 4; 7
	GN	1	Capparaceae	<i>Ritchiea capparoides</i> (Andrews) Britten	3; 4
	GN	1	Cardiopteridaceae	<i>Leptaulus daphnoides</i> Benth.	2; 3; 4; 7; 8; G17; G29; G31
	GN	1	Caricaceae	<i>Carica papaya</i> L.	4
	GN	1	Celastraceae	<i>Bequaertia mucronata</i> (Exell) R. Wilczek	3; 4; G29
	BU	4	Celastraceae	<i>Campylostemon laurentii</i> De Wild.	G29
	BU	1	Celastraceae	<i>Campylostemon warneckeanus</i> Loes. ex Fritsch	4
	GN	1	Celastraceae	<i>Helictonema velutinum</i> (Afzel.) Pierre ex N. Hallé	3; 4; G17; G31
	GN	1	Celastraceae	<i>Hippocratea myriantha</i> Oliv.	3; 4
	BU	1	Celastraceae	<i>Hippocratea vignei</i> Hoyle	1; G29
	gn	1	Celastraceae	<i>Loeseneriella africana</i> (Willd.) N. Hallé var. <i>africana</i> [<i>Hippocratea africana</i> ; <i>Salacia africana</i>]	1; [3; 4; 8; G17]
	gn	1	Celastraceae	<i>Loeseneriella apocynoides</i> (Welw. ex Oliv.) N. Hallé ex J. Raynal var. <i>guineensis</i> (Hutch. & M.B. Mos [<i>Hippocratea guineensis</i>])	1
	GN	1	Celastraceae	<i>Loeseneriella clematoides</i> (Loes.) R. Wilczek ex N. Hallé	3; 4; 8; G17; G31
	BU	1	Celastraceae	<i>Loeseneriella ectypetala</i> N. Hallé	3; 4
	GN	1	Celastraceae	<i>Loeseneriella rowlandii</i> (Loes.) N. Hallé [<i>Hippocratea rowlandii</i>]	1
	gn	4	Celastraceae	<i>Reissantia indica</i> (Willd.) N. Hallé var. <i>loeseneriana</i> (Hutch. & M.B. Moss) N. Hallé	G17; [G31]
	BU	1	Celastraceae	<i>Salacia adolfi-friderici</i> Loes. ex Harms	3; 8; 4
	BU	1	Celastraceae	<i>Salacia alata</i> De Wild.	3; 4
	BU	1	Celastraceae	<i>Salacia columna</i> N. Hallé	3; 4; 7; G29
	GN	1	Celastraceae	<i>Salacia cornifolia</i> Hook. f.	3; 4; 8; G17
	GN	1	Celastraceae	<i>Salacia elegans</i> Welw. ex Oliv.	1; 3; 4; 7
	GN	1	Celastraceae	<i>Salacia erecta</i> (G. Don) Walp.	3; 4
	GD	1	Celastraceae	<i>Salacia ituriensis</i> Loes.	8
	gn	1	Celastraceae	<i>Salacia longipes</i> (Oliv.) N. Hallé var. <i>camerunensis</i> (Loes.) N. Hallé	[1]; 3; 4; [G29]
	BU	1	Celastraceae	<i>Salacia owabiensis</i> Hoyle	1
	bu	4	Celastraceae	<i>Salacia preussii</i> Loes. var. <i>louisii</i> (R. Wilczek) N. Hallé	[3; 4]; G17
	GN	4	Celastraceae	<i>Salacia pyriformis</i> (Sabine) Steud.	G29
	gn	2	Celastraceae	<i>Salacia staudtiana</i> Loes. var. <i>leonensis</i> Loes.	[1; 3; 8; 4]; G17; [G31]
	GN	1	Celastraceae	<i>Salacighia letestuana</i> (Pellegr.) Blakelock	4; 8; G17; G31
	GN	1	Celastraceae	<i>Simicratea welwitschii</i> (Oliv.) N. Hallé	3; 4; 8; G17
	GD	1	Celastraceae	<i>Simirestis tisserantii</i> N. Hallé	4; 8
VU	BU	1	Chrysobalanaceae	<i>Dactyloadenia dinklagei</i> (Engl.) Prance & F. White	IBAT
	GN	4	Chrysobalanaceae	<i>Magnistipula butayei</i> De Wild.	G29
	GN	1	Chrysobalanaceae	<i>Maranthes chrysophylla</i> (Oliv.) Prance	2

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	GN	1	Chrysobalanaceae	<i>Maranthes glabra</i> (Oliv.) Prance	3; 4
	BU	1	Chrysobalanaceae	<i>Maranthes robusta</i> (Oliv.) Prance	4; 7; 8; G22; G29
LC	GN	1	Chrysobalanaceae	<i>Parinari excelsa</i> Sabine	2; 3; 4; G29
	BU	1	Clusiaceae	<i>Allanblackia parviflora</i> A. Chev.	2; 3; 4; 7; 8; G17; G31
VU	GN	1	Clusiaceae	<i>Garcinia epunctata</i> Stapf	IBAT; 3; 4; 7
VU	GN	1	Clusiaceae	<i>Garcinia kola</i> Heckel	IBAT; 3; 4
	GN	1	Clusiaceae	<i>Garcinia quadrifaria</i> (Oliv.) Pierre [<i>G. gnetoides</i> Hutch. & Dalz.]	2; G31
	GN	1	Clusiaceae	<i>Garcinia smeathmannii</i> (Planch. & Triana) Oliv.	3; 4; 7
	GN	1	Clusiaceae	<i>Pentadesma butyracea</i> Sabine	2; 3; 4
	GN	1	Clusiaceae	<i>Symphonia globulifera</i> L. f.	2; 3; 4
	BU	4	Combretaceae	<i>Combretum acutum</i> M. A. Lawson	G29
	BU	1	Combretaceae	<i>Combretum bipindense</i> Engl. & Diels	1; G29
	GN	1	Combretaceae	<i>Combretum cuspidatum</i> Planch. ex Benth.	1
	BU	4	Combretaceae	<i>Combretum dolichopetalum</i> Engl. & Diels	G17
	GN	1	Combretaceae	<i>Combretum fuscum</i> Planch. ex Benth.	4; 8; G17; G31
	GN	1	Combretaceae	<i>Combretum mucronatum</i> Schumach. & Thonn. [<i>C. smeathmannii</i>]	1; 7
	BU	1	Combretaceae	<i>Combretum multinervium</i> Exell	4; 8; G17; G31
	GN	1	Combretaceae	<i>Combretum paniculatum</i> Vent.	1
	GN	1	Combretaceae	<i>Combretum platypterum</i> (Welw.) Hutch. & Dalziel	4; 8; G17; G31
	GN	1	Combretaceae	<i>Combretum racemosum</i> P. Beauv.	4; 8; G17; G30; G31
	GN	1	Combretaceae	<i>Combretum sordidum</i> Exell	1; G29
	BU	4	Combretaceae	<i>Combretum zenkeri</i> Engl. & Diels	G17; G31
	GN	1	Combretaceae	<i>Pteleopsis hyloidendron</i> Mildbr.	3; 4; 7
	BU	1	Combretaceae	<i>Strephonema pseudocola</i> A. Chev.	2; 3; 4
VU	BU	1	Combretaceae	<i>Terminalia ivorensis</i> A. Chev.	IBAT; 2; 3; 4; 7; 8; G17; G31
	GN	1	Combretaceae	<i>Terminalia superba</i> Engl. & Diels	2; 3; 4; 7; 8; G17; G31
	gn	1	Connaraceae	<i>Agelaea paradoxa</i> Gilg var. <i>paradoxa</i>	[1; 3]; 4
	GN	1	Connaraceae	<i>Agelaea pentagyna</i> (Lam.) Baill. [<i>A. trifolia</i>]	1; 3; 4; G29
	GN	1	Connaraceae	<i>Cnestis ferruginea</i> DC.	3; 4; G17; G31
	BU	1	Connaraceae	<i>Cnestis racemosa</i> G. Don	3; 4
	GN	1	Connaraceae	<i>Connarus africanus</i> Lam.	1; 3; 4; G31
	GN	1	Connaraceae	<i>Manotes expansa</i> Sol. ex Planch.	3; 4
	GN	1	Connaraceae	<i>Rourea coccinea</i> (Schumach. & Thonn.) Benth.	3; 4
	GN	1	Connaraceae	<i>Rourea minor</i> (Gaertn.) Alston	3; 4
	GN	4	Connaraceae	<i>Rourea solanderi</i> Baker	4
	GN	1	Connaraceae	<i>Rourea thomsonii</i> (Baker) Jongkind	3; 4
	BK	4	Convolvulaceae	<i>Bonamia vignei</i> Hoyle	G29
	GN	1	Convolvulaceae	<i>Calycobolus africanus</i> (G. Don) Heine	1; 3; 4; 7; G29; G31
	GN	1	Convolvulaceae	<i>Calycobolus heudelotii</i> (Baker ex Oliv.) Heine	1
	GN	4	Convolvulaceae	<i>Ipomoea asarifolia</i> (Desr.) Roem. & Schult.	G31
	GN	1	Convolvulaceae	<i>Ipomoea involucreta</i> P. Beauv.	G17; G31
	GN	1	Convolvulaceae	<i>Ipomoea mauritiana</i> Jacq.	G17; G31; G51
	BU	4	Convolvulaceae	<i>Ipomoea pileata</i> Roxb.	G51
	BU	1	Convolvulaceae	<i>Lepistemon parviflorum</i> Pilg.	4; 8; G17; G31
	GN	1	Convolvulaceae	<i>Merremia dissecta</i> (Jacq.) Hallier f.	8; G17; G31
	GN	1	Convolvulaceae	<i>Neuropeltis acuminata</i> (P. Beauv.) Benth.	1; 3; 4; 8; G17; G29; G31
	BU	1	Coulaceae	<i>Coula edulis</i> Baill.	2; 3; 4
	BU	4	Cucurbitaceae	<i>Coccinia keayana</i> R. Fern.	G29
	BK	1	Cucurbitaceae	<i>Coccinia longicarpa</i> Jongkind	4; 8; G17
	BU	1	Cucurbitaceae	<i>Gerrardanthus paniculatus</i> (Mast.) Cogn.	G17
	GN	4	Cucurbitaceae	<i>Melothria sphaerocarpa</i> (Cogn.) H. Schaef. & S. S. Renner	G47
	GD	1	Cucurbitaceae	<i>Momordica angustisepala</i> Harms	7
	GN	1	Cucurbitaceae	<i>Momordica cabraei</i> (Cogn.) Jeffrey	FWTA; G29
	GN	1	Cucurbitaceae	<i>Momordica cissoides</i> Benth.	4; 8; G17; G31
	GN	1	Cucurbitaceae	<i>Momordica foetida</i> Schumach.	G17; G29; G31
	GN	1	Cucurbitaceae	<i>Momordica multiflora</i> Hook. f.	4; 8
	BU	1	Cucurbitaceae	<i>Pilogyne keayana</i> (R. Fern. & A. Fern.) W.J. de Wilde & Duyfjes [<i>Zehneria keayana</i> R. & A. Fernandes]	3; 4; 8; G17
	BU	1	Cucurbitaceae	<i>Ruthalicia eglandulosa</i> (Hook. f.) C. Jeffrey	4; 8; G17; G29; G31

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	GN	1	Cucurbitaceae	<i>Ruthalicia longipes</i> (Hook. f.) C. Jeffrey	4; 8; G17; G31
	BU	1	Cucurbitaceae	<i>Telfairia occidentalis</i> Hook. f.	7
	GN	1	Dichapetalaceae	<i>Dichapetalum angolense</i> Chodat	7
	BU	1	Dichapetalaceae	<i>Dichapetalum barteri</i> Engl.	2; G31
	gn	4	Dichapetalaceae	<i>Dichapetalum crassifolium</i> Chodat var. <i>crassifolium</i>	[3]; G17
	gn	1	Dichapetalaceae	<i>Dichapetalum heudelotii</i> (Planch. ex Oliv.) Baill. f. <i>heudelotii</i>	[1; 3]; 4; [8]; G17; [G31]
	gn	1	Dichapetalaceae	<i>Dichapetalum madagascariense</i> Poir. var. <i>madagascariense</i> [<i>D. guineense</i>]	1; [2; 3; 4; 8]; G17; [G29]
	BU	1	Dichapetalaceae	<i>Dichapetalum oblongum</i> (Hook. f. ex Benth.) Engl.	3; 4
	GN	1	Dichapetalaceae	<i>Dichapetalum pallidum</i> (Oliv.) Engl.	3; 4; 8; G17; G29; G31
	BU	1	Dichapetalaceae	<i>Dichapetalum toxicarium</i> (G. Don) Baill.	1
	GN	1	Dichapetalaceae	<i>Tapura fischeri</i> Engl.	3; 4
VU	BK	1	Dichapetalaceae	<i>Tapura ivorensis</i> Breteler	IBAT; 4
	BU	1	Dilleniaceae	<i>Tetracera affinis</i> Hutch.	1; 7
	GN	1	Ebenaceae	<i>Diospyros canaliculata</i> De Wild.	2; 3; 4; G29
	BU	1	Ebenaceae	<i>Diospyros chevalieri</i> De Wild.	3; 4
	GN	4	Ebenaceae	<i>Diospyros ferrea</i> (Willd.) Bakh.	G29
	GN	1	Ebenaceae	<i>Diospyros gabunensis</i> Gürke	2; 3; 4; G31
	BU	4	Ebenaceae	<i>Diospyros heudelotii</i> Hiern	G29
	BU	1	Ebenaceae	<i>Diospyros kamerunensis</i> Gürke	2; 3; 4; 7; G29; G31
	GN	1	Ebenaceae	<i>Diospyros mannii</i> Hiern	3; 4; 7; G29
	GN	1	Ebenaceae	<i>Diospyros monbuttensis</i> Gürke	2; 3; 4; 7; G29
	BU	1	Ebenaceae	<i>Diospyros piscatoria</i> Gürke	3; 4; G29
	GN	1	Ebenaceae	<i>Diospyros sanza-minika</i> A. Chev.	2; 3; 4; 7; 8; G17; G31
	BU	1	Ebenaceae	<i>Diospyros viridicans</i> Hiern	3; 4; G29
	GN	4	Erythralaceae	<i>Heisteria parvifolia</i> Sm.	G29
	BU	1	Erythroxylaceae	<i>Erythroxylum mannii</i> Oliv.	2; 3; 4; 7; 8; G17; G31
	GN	1	Euphorbiaceae	<i>Acalypha racemosa</i> Baill.	3; 4
	GN	1	Euphorbiaceae	<i>Alchornea cordifolia</i> (Schumach. & Thonn.) Müll. Arg.	1; 3; 4; 7; G17; G31
	GN	1	Euphorbiaceae	<i>Alchornea floribunda</i> Müll. Arg.	3; 4; 7; 8; G17; G31
	BU	1	Euphorbiaceae	<i>Anthostema aubryanum</i> Baill.	3; 4; 7
	BU	1	Euphorbiaceae	<i>Cleidion gabonicum</i> Baill.	2; G29
	BU	1	Euphorbiaceae	<i>Croton penduliflorus</i> Hutch.	3; 4; 7; 8; G17; G29; G31
	BU	1	Euphorbiaceae	<i>Crotonogyne chevalieri</i> (Beille) Keay	3; 4
	GN	1	Euphorbiaceae	<i>Discoclaoxylon hexandrum</i> (Müll. Arg.) Pax & K. Hoffm.	3; 4; 7; 8; G17; G29; G31
	GN	1	Euphorbiaceae	<i>Discoglyprena caloneura</i> (Pax) Prain	2; 3; 4; 7; G31
	GN	1	Euphorbiaceae	<i>Elaeophorbia grandifolia</i> (Haw.) Croizat	FWTA; 3; 4; 7
	BU	1	Euphorbiaceae	<i>Erythrococca africana</i> (Baill.) Prain	3; 4
	BU	1	Euphorbiaceae	<i>Erythrococca anomala</i> (Juss. ex Poir.) Prain	3; 4; 8; G17; G31
	BU	1	Euphorbiaceae	<i>Grossera vignei</i> Hoyle	FWTA; 3; 4; G17; G31
	GN	1	Euphorbiaceae	<i>Macaranga barteri</i> Müll. Arg. [<i>M. heudelotii</i> Baill.]	2; 2; 3; 3; 4; 4; 7; G29
	BU	1	Euphorbiaceae	<i>Macaranga heterophylla</i> (Müll. Arg.) Müll. Arg.	2; 3; 4; 7
	BU	1	Euphorbiaceae	<i>Macaranga hurifolia</i> Beille	2; 3; 4; 7
	GN	1	Euphorbiaceae	<i>Macaranga spinosa</i> Müll. Arg.	3; 4
	GN	2	Euphorbiaceae	<i>Mallotus oppositifolius</i> (Geiseler) Müll. Arg.	G17; G31
	GN	1	Euphorbiaceae	<i>Manniophyton fulvum</i> Müll. Arg.	1; 3; 4; 7; G17; G29; G31
	GN	1	Euphorbiaceae	<i>Mareya micrantha</i> (Benth.) Müll. Arg.	2; 3; 4; G17; G29; G31
	BU	4	Euphorbiaceae	<i>Pycnocoma cornuta</i> Müll. Arg.	G29
	GN	1	Euphorbiaceae	<i>Pycnocoma macrophylla</i> Benth.	3; 4; 7; 8; G17; G29; G31
	gn	1	Euphorbiaceae	<i>Ricinodendron heudelotii</i> (Müll. Arg.) J. Léonard	2; 3; 4; 7; G17; G29; G31
VU	BU	1	Euphorbiaceae	<i>Shirakiopsis aubrevillei</i> (Leandri) Esser [<i>Sapium aubrevillei</i>]	3; 8; 3; 4; 8; 7
	BU	1	Euphorbiaceae	<i>Suregada occidentalis</i> (Hoyle) Croizat	3; 4
	GN	1	Euphorbiaceae	<i>Tetrorchidium didymostemon</i> (Baill.) Pax & K. Hoffm.	2; 3; 4; 7; 8; G17; G31
	BU	1	Euphorbiaceae	<i>Tragia spathulata</i> Benth.	4; 8; G17
	GN	1	Fabaceae	<i>Acacia kamerunensis</i> Gand.	1; 3; 4; G17; G29; G31
	GN	1	Fabaceae	<i>Acacia pentagona</i> (Schumach. & Thonn.) Hook. f.	1; 3; 4
	GN	4	Fabaceae	<i>Adenopodia scelerata</i> (A. Chev.) Brenan	4
VU	GN	1	Fabaceae	<i>Afzelia africana</i> Sm. ex Pers. [<i>Intsia africana</i>]	2
	GN	1	Fabaceae	<i>Afzelia bella</i> Harms	2; 3; G29

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	BU	1	Fabaceae	<i>Aganope leucobotrya</i> (Dunn) Polhill	3; 4; G17; G29; G31
LC	GN	1	Fabaceae	<i>Albizia adianthifolia</i> (Schumach.) W. Wight	2; 3; 4
	GN	1	Fabaceae	<i>Albizia dinklagei</i> (Harms) Harms [<i>Samanea dinklagei</i> (Harms) Keay]	2; 3; 4
VU	GN	1	Fabaceae	<i>Albizia ferruginea</i> (Guill. & Perr.) Benth.	3; 4
	GN	1	Fabaceae	<i>Albizia glaberrima</i> (Schumach. & Thonn.) Benth.	2; 3; 4
	GN	1	Fabaceae	<i>Albizia zygia</i> (DC.) J. F. Macbr.	FWTA; 2; 3; 4; G31
	GN	1	Fabaceae	<i>Amphimas pterocarpoides</i> Harms	2; 3; 4; 7; G29
BU	1	Fabaceae	<i>Annea afzelii</i> (Oliv.) Mackinder & Wieringa [<i>Hymenostegia afzelii</i> (Oliv.) Harms]	2; 3; 4; 7; 8; G31	
	GN	1	Fabaceae	<i>Anthonotha fragrans</i> (Baker f.) Exell & Hillc.	2; 3; 4; 7; G29
	GN	1	Fabaceae	<i>Anthonotha macrophylla</i> P. Beauv.	2; 3; 4; 7; G29
BU	1	Fabaceae	<i>Aubrevillea kerstingii</i> (Harms) Pellegr.	2	
BU	1	Fabaceae	<i>Aubrevillea platycarpa</i> Pellegr.	3; 4; G29	
LC	GN	1	Fabaceae	<i>Baphia nitida</i> Lodd.	2; 3; 4; 7; G17; G31
	GN	1	Fabaceae	<i>Baphia pubescens</i> Hook. f.	2; 3; 4; 7; G31
LC	BU	1	Fabaceae	<i>Berlinia confusa</i> Hoyle	2
	BU	1	Fabaceae	<i>Berlinia tomentella</i> Keay	2; 4; 8; G17; G29; G31
	BU	1	Fabaceae	<i>Bussea occidentalis</i> Hutch.	2; 3; 4; 7; 8; G17; G31
	BU	1	Fabaceae	<i>Calpocalyx brevibracteatus</i> Harms	2; 3; 4; G29
	BU	1	Fabaceae	<i>Chidlowia sanguinea</i> Hoyle	FWTA; 2; 3; 4; 7; 8; G17; G31
VU	BU	1	Fabaceae	<i>Copaifera salikounda</i> Heckel	2; 3; 4; G29
	BU	1	Fabaceae	<i>Crudia gabonensis</i> Pierre ex Harms	2
	BU	1	Fabaceae	<i>Cylicodiscus gabunensis</i> Harms	3; 4
	GN	1	Fabaceae	<i>Dalbergia afzeliana</i> G. Don	3; 4
	GN	1	Fabaceae	<i>Dalbergia hostilis</i> Benth.	1; 3; 4
	BU	1	Fabaceae	<i>Dalbergia oblongifolia</i> G. Don	3; 4
	GN	1	Fabaceae	<i>Dalbergia saxatilis</i> Hook. f.	3; 4
	GN	1	Fabaceae	<i>Dalbergiella welwitschii</i> (Baker) Baker f.	1
	BU	1	Fabaceae	<i>Daniellia ogea</i> (Harms) Rolfe	2; 3; 4
	BU	1	Fabaceae	<i>Daniellia thurifera</i> Benn.	2
	gn	2	Fabaceae	<i>Desmodium adscendens</i> (Sw.) DC. var. <i>adscendens</i>	[3; 4]; G17; [G29]; G31
	BU	1	Fabaceae	<i>Dialium aubrevillei</i> Pellegr.	FWTA; 2; 3; 4; 7; 8; G17; G31
	GN	1	Fabaceae	<i>Dialium dinklagei</i> Harms	3; 4; 7; G31
	GN	1	Fabaceae	<i>Dialium guineense</i> Willd.	3; 4
	BU	1	Fabaceae	<i>Distemonanthus benthamianus</i> Baill.	2; 3; 4; 7; G17
	GN	1	Fabaceae	<i>Entada rheedii</i> Spreng. [<i>E. pursaetha</i>]	1; G31
	GN	1	Fabaceae	<i>Erythrina mildbraedii</i> Harms	2; 7
LC	GN	3	Fabaceae	<i>Erythrina senegalensis</i> DC.	G31
	BU	1	Fabaceae	<i>Erythrina vogelii</i> Hook. f.	7
	GN	1	Fabaceae	<i>Erythrophleum ivorense</i> A. Chev.	3; 4
NT	BU	1	Fabaceae	<i>Gilbertiodendron limba</i> (Scott-Elliot) J. Léonard	FWTA; 3; 4; 7; 8; G29
	BU	1	Fabaceae	<i>Gilbertiodendron preussii</i> (Harms) J. Léonard	2; 4
VU	BU	1	Fabaceae	<i>Gilbertiodendron splendidum</i> (A. Chev. ex Hutch. & Dalziel) J. Léonard	7
	BU	1	Fabaceae	<i>Griffonia simplicifolia</i> (Vahl ex DC.) Baill.	1; 3; 4
LC	BU	1	Fabaceae	<i>Guibourtia ehie</i> (A. Chev.) J. Léonard	IBAT; 3; 4
LC	GN	1	Fabaceae	<i>Leptoderris brachyptera</i> (Benth.) Dunn	3; 4
	GN	1	Fabaceae	<i>Leptoderris fasciculata</i> (Benth.) Dunn	4
	BU	1	Fabaceae	<i>Leptoderris micrantha</i> Dunn	1
	GD	1	Fabaceae	<i>Leptoderris miegei</i> Aké Assi & Mangenot	1
	BU	1	Fabaceae	<i>Leptoderris sassandrensis</i> Jongkind	3; 4
	GN	1	Fabaceae	<i>Lonchocarpus sericeus</i> (Poir.) Kunth ex DC.	2; 3; 4
	GD	1	Fabaceae	<i>Mildbraediodendron excelsum</i> Harms	7
	GN	1	Fabaceae	<i>Milletia chrysophylla</i> Dunn	1; 3; 4; 7
	BU	1	Fabaceae	<i>Milletia lucens</i> (Scott-Elliot) Dunn	3; 8; 4
	BU	1	Fabaceae	<i>Milletia rhodantha</i> Baill.	2; 3; 4; G29
LC	BU	1	Fabaceae	<i>Milletia zechiana</i> Harms	3; 4; G17; G31
	GN	1	Fabaceae	<i>Mucuna flagellipes</i> Hook. f.	4; 8; G17; G31
	gn	4	Fabaceae	<i>Mucuna pruriens</i> (L.) DC. var. <i>utilis</i> (Wall. ex Wight) Baker ex Burck	G31
	BU	1	Fabaceae	<i>Newtonia aubrevillei</i> (Pellegr.) Keay	3; 4
	BU	1	Fabaceae	<i>Newtonia duparquetiana</i> (Baill.) Keay	2; 4

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	BU	4	Fabaceae	<i>Ormocarpum megalophyllum</i> Harms		FWTA
	BU	3	Fabaceae	<i>Ostryocarpus riparius</i> Hook. f.		G29
LC	GN	1	Fabaceae	<i>Parkia bicolor</i> A. Chev.		2; 3; 4; G17; G31
	GN	1	Fabaceae	<i>Pentaclethra macrophylla</i> Benth.		2; 3; 4; G31
	GN	1	Fabaceae	<i>Physostigma venenosum</i> Balf.		4; 8; G17; G31
	GN	1	Fabaceae	<i>Piptadeniastrum africanum</i> (Hook. f.) Brenan		2; 3; 4; G31
	BU	1	Fabaceae	<i>Platysepalum hirsutum</i> (Dunn) Hepper		3; 4
LC	GN	1	Fabaceae	<i>Pterocarpus santalinoides</i> L'Hér. ex DC.		3; 4
	BU	1	Fabaceae	<i>Rhynchosia brunnea</i> Baker f.		4; 8
	GN	1	Fabaceae	<i>Rhynchosia pycnostachya</i> (DC.) Meikle		4; 8; G17; G31
	BU	1	Fabaceae	<i>Stemonocoleus micranthus</i> Harms		3; 4
	GN	1	Fabaceae	<i>Tetrapleura tetraptera</i> (Schumach. & Thonn.) Taub.		2; 3; 4
	GN	4	Fabaceae	<i>Vigna heterophylla</i> A. Rich.		G53; G55
	GN	4	Fabaceae	<i>Vigna unguiculata</i> (L.) Walp.		G53; G55
	GN	2	Fabaceae	<i>Vigna vexillata</i> (L.) A. Rich.		G31
	BU	1	Fabaceae	<i>Xylocarpus evansii</i> Hutch.		2; 3; 8; 4
	BU	1	Gentianaceae	<i>Anthocleista djalensis</i> A. Chev.		2
VU	GD	1	Gentianaceae	<i>Anthocleista microphylla</i> Wernham	Hall & Swaine 1981 (in 7); 4	
	GN	1	Gentianaceae	<i>Anthocleista nobilis</i> G. Don		2; 3; 4; 7; G17; G31
	GN	1	Gentianaceae	<i>Anthocleista vogelii</i> Planch.		3; 4
	GN	1	Hernandiaceae	<i>Illigera pentaphylla</i> Welw.		1; 3; 4; G29
	GN	1	Humiriaceae	<i>Sacoglottis gabonensis</i> (Baill.) Urb.		2
	GN	1	Hypericaceae	<i>Harungana madagascariensis</i> Lam. ex Poir.		2; 3; 4; 7; G31
	GN	1	Hypericaceae	<i>Vismia guineensis</i> (L.) Choisy		2; 3; 4; 8; G17; G31
	BU	1	Icacinaceae	<i>Alsodeiopsis staudtii</i> Engl.		3; 4
	BU	1	Icacinaceae	<i>Iodes liberica</i> Stapf		3; 4
	BU	1	Icacinaceae	<i>Pyrenacantha acuminata</i> Engl.		1; 3; 4
	GD	2	Icacinaceae	<i>Pyrenacantha macrocarpa</i> [<i>Chlamydocarya macrocarpa</i> A.Chev. ex Hutch. & Dalziel]		G31
	GN	4	Icacinaceae	<i>Pyrenacantha vogeliana</i> Baill.		G29
	GN	1	Icacinaceae	<i>Rhaphiostylis beninensis</i> (Hook. f. ex Planch.) Planch. ex Benth.		4; 8; G17; G31
	GN	1	Icacinaceae	<i>Rhaphiostylis ferruginea</i> Engl.		3; 4
	BU	1	Icacinaceae	<i>Rhaphiostylis preussii</i> Engl.		1; 3; 4; 7; 8; G17; G29; G31
	BU	1	Icacinaceae	<i>Stachyanthus occidentalis</i> (Keay & J. Miège) Boutique [<i>Neostachyanthus occidentalis</i>]		1; G29
	GN	1	Irvingiaceae	<i>Irvingia wombolu</i> Vermeesen		2; 3; 4; G29
	GN	1	Irvingiaceae	<i>Klainedoxa gabonensis</i> Pierre ex Engl.		2; 3; 7
	GN	1	Ixonanthaceae	<i>Phyllocosmus africanus</i> (Hook. f.) Klotzsch		2; 3; 4; 7; 8; G17; G31
	GD	4	Lamiaceae	<i>Achyrospermum dasytrichum</i> Perkins		G29
	BU	4	Lamiaceae	<i>Achyrospermum oblongifolium</i> Baker		FWTA
	GN	1	Lamiaceae	<i>Clerodendrum capitatum</i> (Willd.) Schum. & Thonn.		3; 4; G31
	gn	1	Lamiaceae	<i>Clerodendrum cephalanthum</i> Oliv. subsp. <i>occidentale</i> Jongkind		8; G17
	GN	1	Lamiaceae	<i>Clerodendrum silvanum</i> Henriq.		FWTA; 3; 4; G29; G31
	GN	1	Lamiaceae	<i>Clerodendrum umbellatum</i> Poir.		3; 4; 8; G17; G29; G31
	GN	1	Lamiaceae	<i>Clerodendrum volubile</i> P. Beauv.		4; G29
	GN	1	Lamiaceae	<i>Hoslundia opposita</i> Vahl		G17; G31
	GN	1	Lamiaceae	<i>Platostoma africanum</i> P. Beauv.		G17; G31
	BU	1	Lamiaceae	<i>Plectranthus epilithicus</i> B. J. Pollard [<i>Solenostemon repens</i> (Gürke) J. K. Morton]		FWTA; 8
	BU	1	Lamiaceae	<i>Plectranthus occidentalis</i> B. J. Pollard [<i>Solenostemon mannii</i> (Hook. f.) Bak.]		FWTA; 8; G17; G31
	GN	1	Lamiaceae	<i>Vitex ferruginea</i> Schumach. & Thonn.		2; 3; 4; 7; G29
	GN	1	Lamiaceae	<i>Vitex grandifolia</i> Gürke		2; 3; 4; 7
	BU	1	Lamiaceae	<i>Vitex micrantha</i> Gürke		3; 4
	BU	1	Lamiaceae	<i>Vitex rivularis</i> Gürke		2; 3; 4
	BU	1	Lamiaceae	<i>Vitex thyrsoflora</i> Baker		3; 4; 8; G17; G31
	GN	1	Lauraceae	<i>Beilschmiedia mannii</i> (Meisn.) Robyns & R. Wilczek		2; 3; 4; 7; 8; G17; G29; G31
	GN	1	Lecythidaceae	<i>Napoleonaea vogelii</i> Hook. & Planch.		2; 3; 4; 7; G17; G29
	GN	1	Lecythidaceae	<i>Petersianthus macrocarpus</i> (P. Beauv.) Liben		2; 3; 4; 7; G17
	BU	1	Lecythidaceae	<i>Scytopetalum tieghemii</i> A. Chev. ex Hutch. & Dalziel		2; 3; 4
	BU	1	Linaceae	<i>Hugonia afzelii</i> R. Br. ex Planch.		G29
	GN	1	Linaceae	<i>Hugonia planchonii</i> Hook. f.		3; 4
	GN	1	Linaceae	<i>Hugonia platysepala</i> Welw. ex Oliv.		1; 3; 4; G17; G29; G31

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	BU	1	Linaceae	<i>Hugonia rufipilis</i> A. Chev. ex Hutch. & Dalziel	7
	GN	1	Loganiaceae	<i>Strychnos aculeata</i> Soler.	3; 4
	GN	1	Loganiaceae	<i>Strychnos afzelii</i> Gilg	3; 4; 8; G17
	BU	1	Loganiaceae	<i>Strychnos asterantha</i> Leeuwenb.	3; 4; 8; G17; G29; G31
	GN	1	Loganiaceae	<i>Strychnos camptoneura</i> Gilg & Busse	3; 4
	BU	1	Loganiaceae	<i>Strychnos congolana</i> Gilg	4; 8; G17
	BU	1	Loganiaceae	<i>Strychnos cuminodora</i> Leeuwenb.	3; 4; 8; G17; G31
	GN	1	Loganiaceae	<i>Strychnos floribunda</i> Gilg	3; 4; 7
	GN	1	Loganiaceae	<i>Strychnos icaja</i> Baill.	3; 4; 8; G17
	BU	1	Loganiaceae	<i>Strychnos malacoclados</i> C.H. Wright	3; 4; G29
	BU	4	Loganiaceae	<i>Strychnos soubrensis</i> Hutch. & Dalziel	G29
	GN	4	Loganiaceae	<i>Strychnos spinosa</i> Lam.	G29
	BU	1	Loganiaceae	<i>Strychnos splendens</i> Gilg	3; 4; G17; G31
	GN	1	Loganiaceae	<i>Strychnos usambarensis</i> Gilg	3; 4; 7
	GN	1	Loganiaceae	<i>Usteria guineensis</i> Willd.	3; 4; 8; G17; G31
	GN	4	Loranthaceae	<i>Phragmanthera capitata</i> (Spreng.) Balle	G17; G31
	GN	1	Loranthaceae	<i>Tapinanthus bangwensis</i> (Engl. & K. Krause) Danser	4; 8; G17; G29; G31
	GD	4	Loranthaceae	<i>Tapinanthus buntingii</i> (Sprague) Danser	G29
	BU	1	Malpighiaceae	<i>Acridocarpus plagiopterus</i> Guill. & Perr.	3; 4; 8; G17; G31
	GN	1	Malpighiaceae	<i>Acridocarpus smeathmannii</i> (DC.) Guill. & Perr.	G31
	BU	1	Malvaceae	<i>Bombax brevicuspe</i> Sprague [<i>Rhodognaphalon brevicuspe</i> (Sprague) Roberty]	IBAT; 2; 3; 4
	GN	1	Malvaceae	<i>Bombax buonopozense</i> P. Beauv.	2; 3; 4
	GN	1	Malvaceae	<i>Byttneria catalpifolia</i> Jacq.	1
LC	GN	1	Malvaceae	<i>Ceiba pentandra</i> (L.) Gaertn.	2; 3; 4; 7; G34
EN	GD	1	Malvaceae	<i>Cola boxiana</i> Brenan & Keay	FWTA; 4; 7; 8
	BU	1	Malvaceae	<i>Cola caricifolia</i> (G. Don) K. Schum.	2; 3; 4; G29
	gn	3	Malvaceae	<i>Cola gigantea</i> A. Chev. var. <i>glabrescens</i> Brenan & Keay	[2; 3; 7]; G29
	BU	1	Malvaceae	<i>Cola heterophylla</i> (P. Beauv.) Schott & Endl.	2
	GN	1	Malvaceae	<i>Cola lateritia</i> K. Schum.	2; 3; 7
	BU	1	Malvaceae	<i>Cola millenii</i> K. Schum.	2; 3; 4; G31
	GN	1	Malvaceae	<i>Cola nitida</i> (Vent.) Schott & Endl.	2; 3; 4; 7; 8; G17; G31
VU	BU	1	Malvaceae	<i>Cola reticulata</i> A. Chev.	IBAT; 3; 4; 8; G17; G29; G31
	BU	1	Malvaceae	<i>Cola verticillata</i> (Thonn.) Stapf ex A. Chev.	2; 3; 4; 7
	GN	1	Malvaceae	<i>Desplatsia chrysochlamys</i> (Mildbr. & Burret) Mildbr. & Burret	3; 4; 7; G31; G46
	GN	1	Malvaceae	<i>Desplatsia dewevrei</i> (De Wild. & T. Durand) Burret	7
	GN	1	Malvaceae	<i>Desplatsia subericarpa</i> Bocq.	7; G17; G31
	BU	1	Malvaceae	<i>Duboscia viridiflora</i> (K. Schum.) Mildbr.	3; 4; 8; 7
	GN	1	Malvaceae	<i>Eribroma oblongum</i> (Mast.) Pierre ex A. Chev. [<i>Sterculia oblonga</i> Mast.]	2; 3; 4; 7
	GN	1	Malvaceae	<i>Glyphaea brevis</i> (Spreng.) Monach.	3; 4; G17; G31
	GN	1	Malvaceae	<i>Grewia carpinifolia</i> Juss.	1
	BU	1	Malvaceae	<i>Grewia hookeriana</i> Exell & Mendonça	3; 4; 8; G17; G31
	BU	1	Malvaceae	<i>Grewia malacocarpa</i> Mast.	1; 3; 4; G29
	BU	1	Malvaceae	<i>Leptonychia pubescens</i> Keay	3; 4; G29
	BU	1	Malvaceae	<i>Mansonia altissima</i> (A. Chev.) A. Chev.	3
	BU	3	Malvaceae	<i>Nesogordonia kabingaensis</i> (K. Schum.) Capuron ex R. Germ.	G17
VU	BU	1	Malvaceae	<i>Nesogordonia papaverifera</i> (A. Chev.) Capuron ex N. Hallé	IBAT; 2; 3; 4; 7
	BU	1	Malvaceae	<i>Octolobus spectabilis</i> Welw.	3; 4; G29
VU	BU	1	Malvaceae	<i>Pterygota macrocarpa</i> K. Schum.	2; 3; 4
	gn	4	Malvaceae	<i>Sida acuta</i> Burm. f. subsp. <i>acuta</i> [<i>S. stipulata</i> Cav.]	G29
	BU	1	Malvaceae	<i>Sterculia rhinopetala</i> K. Schum.	2; 3; 4; G29
	GN	1	Malvaceae	<i>Sterculia tragacantha</i> Lindl.	2; 3; 4; 7
VU	BU	1	Malvaceae	<i>Tarrietia utilis</i> (Sprague) Sprague [<i>Heritiera utilis</i> (Sprague) Sprague]	2; 3; 4
LC	GN	1	Malvaceae	<i>Triplochiton scleroxylon</i> K. Schum.	2; 3; 4; 7
	GN	1	Malvaceae	<i>Triumfetta rhomboidea</i> Jacq.	G17; G31
	BU	1	Melastomataceae	<i>Calvoa hirsuta</i> Hook. f.	G17; G31
	BU	1	Melastomataceae	<i>Calvoa monticola</i> A. Chev. ex Hutch. & Dalziel	3; 4; G17; G31
	GN	1	Melastomataceae	<i>Dupineta multiflora</i> (Sm.) Raf. [<i>Dissotis multiflora</i> (Sm.) Triana]	G17; G31
	GN	1	Melastomataceae	<i>Heterotis rotundifolia</i> (Sm.) Jacq. -Fél.	8; G17; G31
	BU	1	Melastomataceae	<i>Lijndenia barberi</i> (Hook. f.) K. Bremer [<i>Memecylon barberii</i>]	7

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BU	1	Melastomataceae	<i>Medinilla mannii</i> Hook. f. [<i>M. entii</i>]	4; 8; 8	
BU	1	Melastomataceae	<i>Memecylon afzelii</i> G. Don	2; 3; 8; 7; G17; G31	
BU	1	Melastomataceae	<i>Memecylon lateriflorum</i> (G. Don) Bremek.	2; 3; 4; 7; G29	
BU	1	Melastomataceae	<i>Memecylon liberiae</i> Gilg ex Engl. [<i>M. aylmeri</i> Hutch. & Dalz.]	3; 4; 8; G17; G31	
BU	1	Melastomataceae	<i>Memecylon normandii</i> Jacq. –Fél.	3; 4; G17; G31	
BU	1	Melastomataceae	<i>Preussiella kamerunensis</i> Gilg	4; 8; G17; G31	
bu	1	Melastomataceae	<i>Spathandra blakeoides</i> (G. Don) Jacq. –Fél. var. <i>blakeoides</i> [<i>Memecylon blackeoides</i>]	7	
BU	1	Melastomataceae	<i>Tristemma akeassii</i> Jacq. –Fél.	4; 8; G17; G29	
BU	1	Melastomataceae	<i>Tristemma coronatum</i> Benth.	4; G29; G31	
GN	1	Melastomataceae	<i>Tristemma mauritanum</i> J.F. Gmel.	3; 4; G17; G29; G31	
BU	1	Melastomataceae	<i>Warneckea cinnamomoides</i> (G. Don) Jacq. –Fél.	3; 4; G29	
BU	1	Melastomataceae	<i>Warneckea guineensis</i> (Keay) Jacq. –Fél.	3; 4; 7	
GN	1	Melastomataceae	<i>Warneckea membranifolia</i> (Hook. f.) Jacq. –Fél.	2; 3; 4; 8; G17; G31	
GN	1	Meliaceae	<i>Carapa procera</i> DC.	2; 3; 4; 7	
VU	GN	1	Meliaceae	<i>Entandrophragma angolense</i> (Welw.) C. DC.	IBAT; 2; 3; 4; 7; G17; G29
VU	GN	1	Meliaceae	<i>Entandrophragma candollei</i> Harms	IBAT; 3; 4; 7; G29
VU	GN	1	Meliaceae	<i>Entandrophragma cylindricum</i> (Sprague) Sprague	IBAT; 3; 4; 7; G29
VU	GN	1	Meliaceae	<i>Entandrophragma utile</i> (Dawe & Sprague) Sprague	IBAT; 3; 4; 7
VU	GN	1	Meliaceae	<i>Khaya anthotheca</i> (Welw.) C. DC.	FWTA; IBAT; 2; 7
VU	BU	1	Meliaceae	<i>Khaya ivorensis</i> A. Chev.	IBAT; 3; 4; 7; G29
VU	GN	1	Meliaceae	<i>Leplaea cedrata</i> (A. Chev.) E.J.M. Koenen & J. J. de Wilde [<i>Guarea cedrata</i> (A. Chev.) Pellegr.]	IBAT; 2; 3; 4; 7; G29
VU	GN	1	Meliaceae	<i>Leplaea thompsonii</i> (Sprague & Hutch.) E.J.M. Koenen & J. J. de Wilde [<i>Guarea thompsonii</i> Sprague & Hutch.]	2; 3; 4
VU	GN	1	Meliaceae	<i>Lovoa trichilioides</i> Harms	IBAT; 2; 3; 4; 7; G29
BU	1	Meliaceae	<i>Trichilia martineaui</i> Aubrév. & Pellegr.	2; 7	
BU	1	Meliaceae	<i>Trichilia megalantha</i> Harms	2	
GN	1	Meliaceae	<i>Trichilia monadelphica</i> (Thonn.) J. J. de Wilde [<i>T. heudelotii</i>]	2; 2; 3; 4; 7; G31	
gn	4	Meliaceae	<i>Trichilia prieuriana</i> A. Juss. subsp. <i>vermoesenii</i> J. J. de Wilde	[2; 3; 4; 7]; G29	
GN	1	Meliaceae	<i>Trichilia tessmannii</i> Harms	2; 3; 4; 7; G29	
GN	1	Meliaceae	<i>Turraea vogelii</i> Hook. f. ex Benth.	4; 8; G29	
VU	GN	1	Meliaceae	<i>Turraeanthus africanus</i> (Welw. ex C. DC.) Pellegr.	IBAT; 2; 3; 4; 7; G17; G29
gn	1	Melanthaceae	<i>Bersama abyssinica</i> Fresen. subsp. <i>abyssinica</i> [<i>B. abyssinica</i> subsp. <i>paullinioides</i> (Planch.) Verdc.]	G17; G31	
BU	1	Menispermaceae	<i>Albertisia scandens</i> (Mangenot & J. Miège) Forman	3; 4; 8; G17; G29; G31	
GN	1	Menispermaceae	<i>Dioscoreophyllum volkensii</i> Engl. [<i>D. cumminsii</i> (Stapf) Diels]	3; 4; 4; 8; G17; G29; G31	
BU	1	Menispermaceae	<i>Kolobopetalum leonense</i> Hutch. & Dalziel	G29	
BU	1	Menispermaceae	<i>Penianthus patulinervis</i> Hutch. & Dalziel	3; 4	
BU	1	Menispermaceae	<i>Rhigiocarya racemifera</i> Miers	4; 8; G17; G29; G31	
BU	1	Menispermaceae	<i>Sphenocentrum jollyanum</i> Pierre	3; 4; G29; G31	
BU	1	Menispermaceae	<i>Tiliacora leonensis</i> (Scott–Elliot) Diels [<i>T. dielsiana</i> Hutchinson & Dalziel]	G29	
GN	1	Menispermaceae	<i>Triclisia dictyophylla</i> Diels	3; 4; G29; G31	
BU	1	Menispermaceae	<i>Triclisia patens</i> Oliv.	1; 3; 4	
BU	1	Moraceae	<i>Antiaris toxicaria</i> (Rumph. ex Pers.) Leschen.	2; 3; 4	
BK	1	Moraceae	<i>Dorstenia embergeri</i> Mangenot	4; 8	
GN	3	Moraceae	<i>Ficus barteri</i> Sprague	G29	
BU	1	Moraceae	<i>Ficus bubu</i> Warb.	3; 4	
GN	1	Moraceae	<i>Ficus cyathistipula</i> Warb.	7	
GN	1	Moraceae	<i>Ficus exasperata</i> Vahl	2; 3; 4; 7; G17; G29; G31; G51	
GN	1	Moraceae	<i>Ficus kamerunensis</i> Warb. ex Mildbr. & Burret	3; 4	
GN	1	Moraceae	<i>Ficus mucoso</i> Welw. ex Ficalho	3; 4	
GN	1	Moraceae	<i>Ficus ottoniifolia</i> (Miq.) Miq.	3; 4; 8; G29; G51	
GN	1	Moraceae	<i>Ficus ovata</i> Vahl	3; 4	
GN	1	Moraceae	<i>Ficus recurvata</i> De Wild.	3; 4	
BU	1	Moraceae	<i>Ficus sagittifolia</i> Warb. ex Mildbr. & Burret	4; 7; 8; G17; G29; G31; G51	
gn	1	Moraceae	<i>Ficus sansibarica</i> Warb. var. <i>macrosperma</i>	3	
GN	1	Moraceae	<i>Ficus saussureana</i> DC.	3; 4; 7; 8; G17; G51	
GN	1	Moraceae	<i>Ficus sur</i> Forssk.	2; 3; 4; 7; G17; G31; G51	
GN	1	Moraceae	<i>Ficus umbellata</i> Vahl	3; 4	

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	GN	1	Moraceae	<i>Ficus variifolia</i> Warb.	3; 4
	GN	1	Moraceae	<i>Ficus vogeliana</i> (Miq.) Miq.	G17; G31; G51
NT	GN	1	Moraceae	<i>Milicia excelsa</i> (Welw.) C.C. Berg	2; 3; 4; 7; G29
VU	BU	1	Moraceae	<i>Milicia regia</i> (A. Chev.) C.C. Berg	IBAT; 3; 8; 4
	GN	1	Moraceae	<i>Morus mesozygia</i> Stapf	3; 4; 7
	GN	1	Moraceae	<i>Streblus usambarensis</i> (Engl.) C.C. Berg	3; 4
	GN	1	Moraceae	<i>Treculia africana</i> Decne.	2; 3; 7; G29
	GN	1	Moraceae	<i>Trilepisium madagascariense</i> DC.	2; 3; 4; 7
GD	1		Myristicaceae	<i>Coelocaryon oxycarpum</i> Stapf	2; 3; 4
	GN	1	Myristicaceae	<i>Coelocaryon preussii</i> Warb.	G31
	BU	1	Myristicaceae	<i>Coelocaryon sphaerocarpum</i> Fouilloy	4; 8; G17
	GN	1	Myristicaceae	<i>Pycnanthus angolensis</i> (Welw.) Warb.	2; 3; 4; 7; G29
	BU	2	Myrtaceae	<i>Eugenia leonensis</i> Engl. & Brehmer	G17; G31
	BU	4	Myrtaceae	<i>Eugenia obanensis</i> Baker f.	G29
	GN	1	Myrtaceae	<i>Syzygium guineense</i> (Willd.) DC.	3; 8
	GN	1	Nyctaginaceae	<i>Pisonia aculeata</i> L.	1; 3; 4; G29
	GN	1	Ochnaceae	<i>Campylosperrum calanthum</i> (Gilg) Farron [<i>Ouratea calantha</i>]	7; G29
	GN	1	Ochnaceae	<i>Campylosperrum flavum</i> (Schumacher & Thonn.) Farron	3; 4; G31
	GN	1	Ochnaceae	<i>Campylosperrum sulcatum</i> (Tiegh.) Farron	3; 4; G17
VU	GN	1	Ochnaceae	<i>Lophira alata</i> Banks ex C. F. Gaertn.	IBAT; 2; 3; 4; 7; 8; G17; G31
	GN	1	Ochnaceae	<i>Ochna afzelii</i> R. Br. ex Oliv.	7
	BU	1	Ochnaceae	<i>Ochna kibbiensis</i> Hutch. & Dalziel	FWTA; G17; G29
	GN	1	Ochnaceae	<i>Ochna membranacea</i> Oliv.	7
	BU	1	Ochnaceae	<i>Ochna staudtii</i> Engl. & Gilg	3; 4; 7
	gn	4	Ochnaceae	<i>Rhabdophyllum affine</i> (Hook. f.) Tiegh. subsp. <i>affine</i>	4; [G17; G29; G31]
	GN	1	Ochnaceae	<i>Rhabdophyllum calophyllum</i> (Hook. f.) Tiegh.	3; 4; 8; G17; G31; G45
	BU	1	Octoknemaceae	<i>Octoknema borealis</i> Hutch. & Dalziel	2; 3; 4; 7; G29
	GN	1	Olacaceae	<i>Olax gambecola</i> Baill.	3; 4; G17; G31
	GN	1	Olacaceae	<i>Olax subscorpioidea</i> Oliv.	7
	BU	1	Olacaceae	<i>Ptychopetalum anceps</i> Oliv.	3; 4; G29; G31
	BU	4	Oleaceae	<i>Chionanthus africanus</i> (Welw. ex Knobl.) Stearn	G29
	BU	1	Oleaceae	<i>Chionanthus mannii</i> (Solereder) Stearn	3
	GN	1	Oleaceae	<i>Jasminum pauciflorum</i> Benth.	3; 4; G29
LC	GN	4	Onagraceae	<i>Ludwigia hyssopifolia</i> (G. Don) Exell	G29
	GN	4	Onagraceae	<i>Ludwigia leptocarpa</i> (Nutt.) H. Hara	G29
	GN	4	Oxalidaceae	<i>Oxalis corniculata</i> L.	G17
	GN	1	Pandaceae	<i>Microdesmis keayana</i> J. Léonard	2; 3; 4; 8; G17; G29
	GN	1	Pandaceae	<i>Microdesmis puberula</i> Hook. f. ex Planch.	7; G29; G31
	GN	1	Pandaceae	<i>Panda oleosa</i> Pierre	2; 3; 4; 7; G29
	GN	1	Passifloraceae	<i>Adenia cissampeloides</i> (Planch. ex Hook.) Harms	4; 8; G17; G31
	gn	1	Passifloraceae	<i>Adenia lobata</i> (Jacq.) Engl. subsp. <i>rumicifolia</i> (Engl. & Harms) Lye [<i>A. mannii</i> (Mast.) Engl.; <i>A. rumicifolia</i> Engl. & Harms]	1; [3]; 4; 8; G17; G29; G31
	BU	1	Passifloraceae	<i>Crossostemma laurifolium</i> Planch. ex Benth.	4; 8; G17; G31
	GN	1	Passifloraceae	<i>Smeathmannia pubescens</i> Sol. ex R. Br.	3; 4; 7; G29
	BU	1	Peridiscaceae	<i>Soyauxia grandifolia</i> Gilg & Stapf	2; 3; 4; 7
EN	BU	1	Peridiscaceae	<i>Soyauxia talbotii</i> Baker f.	G17
	BU	1	Peridiscaceae	<i>Soyauxia velutina</i> Hutch. & Dalziel	2; 3; 4; 8; G31
	GN	1	Phyllanthaceae	<i>Antidesma laciniatum</i> Muell. Arg.	2; 3; 8; G29; G31
	GN	1	Phyllanthaceae	<i>Antidesma membranaceum</i> Müll. Arg.	G17
	GN	1	Phyllanthaceae	<i>Bridelia atroviridis</i> Müll. Arg.	2; 7
	GN	1	Phyllanthaceae	<i>Bridelia grandis</i> Pierre ex Hutch.	2; 3; 4; 7; G29
LC	GN	1	Phyllanthaceae	<i>Bridelia micrantha</i> (Hochst.) Baill.	3; 4; G31
	GN	1	Phyllanthaceae	<i>Maesobotrya barberi</i> (Baill.) Hutch.	2; 3; 7; G17; G29; G31; G46
	GN	1	Phyllanthaceae	<i>Margaritaria discoidea</i> (Baill.) G.L. Webster	2; 3; 4; 7
	GN	1	Phyllanthaceae	<i>Phyllanthus muellerianus</i> (Kuntze) Exell	7; G17; G31; G46
VU	BU	1	Phyllanthaceae	<i>Phyllanthus profusus</i> N.E. Br.	IBAT; 3; 4
	GN	1	Phyllanthaceae	<i>Phyllanthus urinaria</i> L.	7; G29
	BU	1	Phyllanthaceae	<i>Protomegabaria stapfiana</i> (Beille) Hutch.	2; 3; 4; 7; 8; G17; G31
	GN	1	Phyllanthaceae	<i>Spondianthus preussii</i> Engl.	3

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	BU 1	Phyllanthaceae	<i>Thecacoris stenopetala</i> (Müll. Arg.) Müll. Arg.	3; 4; 8; G17; G31
	GN 1	Phyllanthaceae	<i>Uapaca guineensis</i> Müll. Arg.	2; 3; 4; 7
	GN 1	Phyllanthaceae	<i>Uapaca heudelotii</i> Baill.	7
	GN 1	Phyllanthaceae	<i>Uapaca pynaertii</i> De Wild. [<i>U. corbisieri</i>]	7
	GN 1	Piperaceae	<i>Peperomia bangroana</i> C. DC. [<i>P. rotundifolia</i> (L.) H.B. & K.]	FWTA; 3; 4
	GN 1	Piperaceae	<i>Peperomia fernandopoiana</i> C. DC.	3; 4; 8; G17
	GN 1	Piperaceae	<i>Piper capense</i> L. f.	4; 7; 8; G17; G31; G51
	GN 1	Piperaceae	<i>Piper guineense</i> Schumach. & Thonn.	1; 3; 4; 7; G29
	GN 1	Piperaceae	<i>Piper umbellatum</i> L.	3; 4; 7; G17; G29; G31; G51
	GN 2	Plantaginaceae	<i>Scoparia dulcis</i> L.	G17; G31
	BU 1	Polygalaceae	<i>Atroxima liberica</i> Stapf	3; 4
	GN 1	Polygalaceae	<i>Carpolobia lutea</i> G. Don	3; 4; 8; G17; G29; G31
	GN 1	Polygalaceae	<i>Securidaca welwitschii</i> Oliv.	G17
	GN 1	Polygonaceae	<i>Afrobrunnichia erecta</i> (Asch.) Hutch. & Dalziel	G29
	GN 1	Primulaceae	<i>Embelia schimperi</i> Vatke [<i>E. guineensis</i> Bak.]	4
	BU 4	Putranjivaceae	<i>Drypetes aframensis</i> Hutch.	G29
VU	BU 1	Putranjivaceae	<i>Drypetes afzelii</i> (Pax) Hutch.	IBAT; 3; 4
	BU 1	Putranjivaceae	<i>Drypetes aubrevillei</i> Leandri	2; 3; 4; 7; G29
	BU 1	Putranjivaceae	<i>Drypetes aylmeri</i> Hutch. & Dalziel	2; 3; 4; 7; 8; G17
	BU 1	Putranjivaceae	<i>Drypetes chevalieri</i> Beille ex Hutch. & Dalziel	2; 3; 4; G17; G31
	GN 1	Putranjivaceae	<i>Drypetes gilgiana</i> (Pax) Pax & K. Hoffm.	3; 4
	BU 4	Putranjivaceae	<i>Drypetes ivorensis</i> Hutch. & Dalziel	G29
VU	BU 1	Putranjivaceae	<i>Drypetes pellegrinii</i> Leandri	IBAT; 3; 8; 7; G17
	BU 1	Putranjivaceae	<i>Drypetes principum</i> (Müll. Arg.) Hutch.	2; 3; 4; 7
	GN 1	Ranunculaceae	<i>Clematis grandiflora</i> DC.	G29
	GN 1	Rhamnaceae	<i>Gouania longipetala</i> Hemsl.	3; 4; G31
	GN 1	Rhamnaceae	<i>Lasiodiscus fasciculiflorus</i> Engl.	3; 4
	GN 1	Rhamnaceae	<i>Lasiodiscus mannii</i> Hook. f.	2
	GN 1	Rhamnaceae	<i>Maesopsis eminii</i> Engl.	2; 3; 4; 7
VU	GN 1	Rhizophoraceae	<i>Anopyxis klaineana</i> (Pierre) Engl.	IBAT; 2; 3; 4; 7
	GN 1	Rhizophoraceae	<i>Cassipourea congoensis</i> DC.	3; 4
	GN 1	Rhizophoraceae	<i>Cassipourea gummiiflua</i> Tul.	3; 4; 8; 8; G17
	GN 1	Rosaceae	<i>Rubus pinnatus</i> Willd. [<i>R. pinnatus</i> Willd. var. <i>afrotropicus</i> (Engl.) C.E.Gust.]	3; 4; G17; G31
	GN 1	Rubiaceae	<i>Aidia genipiflora</i> (DC.) Dandy	2; 3; 4; 7; 8; G17; G29; G31
	GN 1	Rubiaceae	<i>Argocoffeopsis rupestris</i> (Hiern) Robbr.	G29
	BU 4	Rubiaceae	<i>Atractogyne bracteata</i> (Wernham) Hutch. & Dalziel	G29
	GN 1	Rubiaceae	<i>Aulacocalyx jasminiflora</i> Hook. f.	FWTA; 2; 3; 4; 7; G29; G31; G46
	GN 1	Rubiaceae	<i>Bertiera bracteolata</i> Hiern	3; 4; 8; G17; G30; G31
	GN 1	Rubiaceae	<i>Bertiera breviflora</i> Hiern	FWTA; 3; 4; 8; G17; G29; G31
	GN 1	Rubiaceae	<i>Bertiera racemosa</i> (G. Don) K. Schum.	3; 8; 7; G17; G29; G31
VU	BU 1	Rubiaceae	<i>Calycosiphonia macrochlamys</i> (K. Schum.) Robbr.	3; 4
	GN 1	Rubiaceae	<i>Calycosiphonia spathicalyx</i> (K. Schum.) Robbr.	3; 4; G29
	BU 1	Rubiaceae	<i>Chassalia afzelii</i> (Hiern) K. Schum.	3; 4; 8; G17
	GN 1	Rubiaceae	<i>Chassalia corallifera</i> (A. Chev. ex De Wild.) Hepper	4; 8; G29
	GN 1	Rubiaceae	<i>Chassalia kolly</i> (Schumach.) Hepper	3; 4; 8; G17; G29; G31
	GN 1	Rubiaceae	<i>Chassalia laxiflora</i> Benth.	G31
LC	BU 1	Rubiaceae	<i>Coffea ebracteolata</i> (Hiern) Brenan [<i>Psilanthus ebracteolatus</i> Hiern]	3; 4; G29
LC	GN 1	Rubiaceae	<i>Coffea mannii</i> (Hook. f.) A.P. Davis [<i>Psilanthus mannii</i> Hook.f.]	3; 4; 8; G17; G31
	GN 1	Rubiaceae	<i>Corynanthe pachyceras</i> K. Schum.	2; 3; 4; 7; 8; G17; G31
	BU 1	Rubiaceae	<i>Craterispermum caudatum</i> Hutch.	2; 3; 4; 7; 8; G17; G29; G31
	GN 1	Rubiaceae	<i>Craterispermum cerinanthum</i> Hiern	3; 4; G29; G45
	gn 1	Rubiaceae	<i>Cremalespora triflora</i> (Thonn.) K. Schum. subsp. <i>triflora</i>	[3; 4; 8; G17; G29]; G31
	BU 1	Rubiaceae	<i>Cuviera macroura</i> K. Schum.	G29
	BU 1	Rubiaceae	<i>Cuviera nigrescens</i> (Scott-Elliot ex Oliv.) Wernham	3; 4
	GN 1	Rubiaceae	<i>Didymosalpinx abbeokutae</i> (Hiern) Keay	3; 4; 8; G17; G31; G45
	GN 1	Rubiaceae	<i>Diodella sarmentosa</i> (Sw.) Bacigalupo & E.L. Cabral [<i>Diodia scandens</i> Sw.]	8; G17; G31
	BU 1	Rubiaceae	<i>Empogona discolor</i> (Brenan) J. Tosh & Robbr. [<i>Tricalysia discolor</i> Brenan]	2; 3; 4; 7; 8; G17; G31
	GN 1	Rubiaceae	<i>Euclinia longiflora</i> Salisb.	FWTA; 3; 4; 8; G17; G29; G31; G45
	GN 1	Rubiaceae	<i>Eumachia sciadephora</i> (Hiern) Razafim. & C. M. Taylor	

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		[<i>Chazaliella sciadephora</i> (Hiern) Petit & Verdc.; <i>Psychotria sciadephora</i> Hiern]	3; 4; 8; G17; G29; G29		
BU	1	Rubiaceae	<i>Fleroya ledermannii</i> (K. Krause) Y.F. Deng	2	
BU	1	Rubiaceae	<i>Gaertnera cooperi</i> Hutch. & M.B. Moss	3; 4	
GN	1	Rubiaceae	<i>Geophila afzelii</i> Hiern	3; 4; 7; 8; G31	
GD	1	Rubiaceae	<i>Geophila flaviflora</i> Aké Assi	G17	
GN	1	Rubiaceae	<i>Geophila obvallata</i> (Schumach.) Didr.	3; 4; G29	
GN	1	Rubiaceae	<i>Geophila uniflora</i> Hiern [<i>G. repens</i> (L.) I.M. Johnst.]	4; 8; G31	
GN	1	Rubiaceae	<i>Hymenocoleus hirsutus</i> (Benth.) Robbr. [<i>Geophila hirsuta</i> Benth.]	FWTA; 3; 4; 7; G31	
BU	1	Rubiaceae	<i>Hymenocoleus libericus</i> (A. Chev. ex Hutch. & Dalziel) Robbr.	3; 4; G29	
GD	1	Rubiaceae	<i>Hymenocoleus multinervis</i> Robbr.	3; 8; 4	
gn	1	Rubiaceae	<i>Hymenocoleus neurodictyon</i> (K. Schum.) Robbr. var. <i>neurodictyon</i>	[FWTA; 3; 8]; G17	
GN	1	Rubiaceae	<i>Hymenodictyon floribundum</i> (Hochst. & Steud.) B. L. Rob.	Hall & Swaine 1981 (in 7); 4	
BU	1	Rubiaceae	<i>Ixora hiernii</i> Scott–Elliot	3; 4; G29	
BU	4	Rubiaceae	<i>Ixora laxiflora</i> Sm.	G29	
bu	1	Rubiaceae	<i>Ixora nigerica</i> Keay subsp. <i>occidentalis</i> De Block	3; 4; 8; G29	
BU	1	Rubiaceae	<i>Ixora nimbana</i> Schnell	4; G29	
BK	1	Rubiaceae	<i>Ixora tenuis</i> De Block	7; 8; G17; G31	
BU	1	Rubiaceae	<i>Keetia bridsoniae</i> Jongkind	3; 4; 8; G17	
GN	1	Rubiaceae	<i>Keetia hispida</i> (Benth.) Bridson [<i>Canthium setosum</i> Hiern]	FWTA; 3; 4; G31	
BU	1	Rubiaceae	<i>Keetia leucantha</i> (K. Krause) Bridson	G31	
GN	1	Rubiaceae	<i>Keetia venosa</i> (Oliv.) Bridson	3; 4	
GN	1	Rubiaceae	<i>Lasianthus batangensis</i> K. Schum.	3; 4; 8; G17; G31; G45	
GN	1	Rubiaceae	<i>Lasianthus repens</i> Hepper	FWTA; 3; 8; 4	
GN	1	Rubiaceae	<i>Leptactina arborescens</i> (Welw. ex Benth. & Hook. f.) De Block		
			[<i>Dictyandra arborescens</i> Welw. ex Hook. f.]	3; 4; 8; G17; G31; G46	
BU	1	Rubiaceae	<i>Leptactina densiflora</i> Hook. f.	3; G17; G31	
BU	1	Rubiaceae	<i>Leptactina involucrata</i> Hook. f.	3; 4	
	4	Rubiaceae	<i>Lelya prostrata</i> (R.D. Good) W. H. Lewis	G29	
GN	1	Rubiaceae	<i>Massularia acuminata</i> (G. Don) Bullock ex Hoyle	2; 3; 4; 7; G17; G29; G31	
VU	GN	1	Rubiaceae	<i>Mitragyna stipulosa</i> (DC.) Kuntze [<i>Halea stipulosa</i> (DC.) Leroy]	IBAT; 3; 4
GN	1	Rubiaceae	<i>Morinda longiflora</i> G. Don	G17; G31	
GN	1	Rubiaceae	<i>Morinda lucida</i> Benth.	2; 3; 4; G31	
GN	1	Rubiaceae	<i>Morinda morindoides</i> (Baker) Milne–Redh.	FWTA; 1; 3; 4; G29; G31	
BU	1	Rubiaceae	<i>Mussaenda chippii</i> Wernham	4; 8; G29	
BU	1	Rubiaceae	<i>Mussaenda linderi</i> Hutch. & Dalziel	4; 8	
GD	1	Rubiaceae	<i>Mussaenda nivea</i> A. Chev. ex Hutch. & Dalziel	4; 8; G17; G31	
BU	1	Rubiaceae	<i>Mussaenda tristigmatica</i> Cummins	3; 4; 8; G17; G31	
VU	GN	1	Rubiaceae	<i>Nauclea diderichii</i> (De Wild. & T. Durand) Merr.	IBAT; 2; 3; 4; 7; 8; G17; G31
GN	1	Rubiaceae	<i>Oxyanthus formosus</i> Hook. f.	3; 4; G17; G31	
GN	1	Rubiaceae	<i>Oxyanthus pallidus</i> Hiern	3; 4; G29	
GN	1	Rubiaceae	<i>Oxyanthus speciosus</i> DC.	3; 4; 7; G29	
GN	1	Rubiaceae	<i>Oxyanthus unilocularis</i> Hiern	3; 4; 7; 8; G17; G31	
BU	1	Rubiaceae	<i>Pauridiantha afzelii</i> (Hiern) Bremek.	3; 4	
BU	1	Rubiaceae	<i>Pauridiantha sylvicola</i> (Hutch. & Dalziel) Bremek.	3; 4; 8; G17; G31	
BU	1	Rubiaceae	<i>Pausinystalia lane–poolei</i> (Hutch.) Hutch. ex Lane–Poole	3; 4; 7	
GD	1	Rubiaceae	<i>Pavetta akeassii</i> J.B. Hall	3; 4; 8; G17	
BU	1	Rubiaceae	<i>Pavetta ixorifolia</i> Bremek.	3; 4; 8; G17; G31	
BU	1	Rubiaceae	<i>Pavetta mollis</i> Afzel. ex Hiern	7	
VU	BU	1	Rubiaceae	<i>Pavetta mollissima</i> Hutch. & Dalziel	IBAT; G29
BU	1	Rubiaceae	<i>Pavetta owariensis</i> P. Beauv.	3; 4	
GN	1	Rubiaceae	<i>Pleiocoryne fernandensis</i> (Hiern) Rauschert	4; 8; G17; G29; G31	
BU	1	Rubiaceae	<i>Psychotria biaurita</i> (Hutch. & Dalziel) Verdc.	3; 4; 8; G17; G31	
BU	1	Rubiaceae	<i>Psychotria brachyantha</i> Hiern	4; 8; G17; G31	
GN	1	Rubiaceae	<i>Psychotria brassii</i> Hiern	7	
BU	1	Rubiaceae	<i>Psychotria calceata</i> E.M.A. Petit	4	
BU	1	Rubiaceae	<i>Psychotria elongatosepala</i> (De Wild.) E.M.A. Petit	3; 8; 4	
GN	1	Rubiaceae	<i>Psychotria gabonica</i> Hiern	3; 4; 8; G17; G29; G31	
BU	1	Rubiaceae	<i>Psychotria ivorensis</i> De Wild.	4; 7	
BK	1	Rubiaceae	<i>Psychotria longituba</i> A. Chev. ex De Wild.	7	

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	BU	4	Rubiaceae	<i>Psychotria mangenotii</i> (Aké Assi) Verdc.	G29
	-	1	Rubiaceae	<i>Psychotria peduncularis</i> sensuHawthorne_Jongkind	3; 4; G29
	GN	1	Rubiaceae	<i>Psychotria psychotrioides</i> (DC.) Roberty	3
	BU	1	Rubiaceae	<i>Psychotria reptans</i> Benth.	3; 8; 4
	BU	1	Rubiaceae	<i>Psychotria rufipilis</i> De Wild.	3; 4
	BU	1	Rubiaceae	<i>Psychotria subglabra</i> De Wild.	3; 4; 7; G17; G29
	GN	1	Rubiaceae	<i>Psychotria subobliqua</i> Hiern	FWTA; 3; 4; 8; G17; G29
	BU	1	Rubiaceae	<i>Psydrax arnoldiana</i> (De Wild. & T. Durand) Bridson	2; 3; 4; 7
	GN	1	Rubiaceae	<i>Psydrax horizontalis</i> (Schumach.) Bridson	3; 4
	GN	1	Rubiaceae	<i>Psydrax kraussiioides</i> (Hiern) Bridson	G31
	GD	1	Rubiaceae	<i>Psydrax manensis</i> (Aubrév. & Pellegr.) Bridson	3; 4; 8; G31
	gn	2	Rubiaceae	<i>Psydrax parviflora</i> (Afzel.) Bridson subsp. <i>parviflora</i>	[2; 7]; G17; G31
	GN	1	Rubiaceae	<i>Psydrax subcordata</i> (DC.) Bridson	3; 4; 7
	GN	1	Rubiaceae	<i>Pyrostria affinis</i> (Robyns) Bridson	FWTA; G31
VU	BU	1	Rubiaceae	<i>Robynsia glabrata</i> Hutch.	IBAT; 3; 4; 7; 8; G29
	GN	1	Rubiaceae	<i>Rothmannia hispida</i> (K. Schum.) Fagerl.	2; 3; 4; 7; 8; G17; G31
	GN	1	Rubiaceae	<i>Rothmannia longiflora</i> Salisb.	2; 3; 4
	bu	1	Rubiaceae	<i>Rothmannia munsae</i> (Schweinf. ex Hiern) E.M.A. Petit subsp. <i>megalostigma</i> (Wernham) Somers [<i>Rothmania megalostigma</i>]	7
	GN	1	Rubiaceae	<i>Rothmannia whitfieldii</i> (Lindl.) Dandy	3; 4; 8; G17; G31; G46
	BU	1	Rubiaceae	<i>Rutidea dupuisii</i> De Wild.	3; 4
	GN	1	Rubiaceae	<i>Rutidea membranacea</i> Hiern	3; 4; 8; G17; G31
	GN	1	Rubiaceae	<i>Rutidea olenotricha</i> Hiern	4; 8; G17; G31; G46
	BU	1	Rubiaceae	<i>Rytigynia canthioides</i> (Benth.) Robyns	4; 8; G17; G31
	GN	1	Rubiaceae	<i>Sabicea calycina</i> Benth.	3; 4; 8; G17; G31; G45
	BU	1	Rubiaceae	<i>Sabicea ferruginea</i> (G. Don) Benth.	4; 8
	GD	1	Rubiaceae	<i>Sabicea multibracteata</i> J.B. Hall	3; 8; 4
	BU	1	Rubiaceae	<i>Sabicea rosea</i> Hoyle	4; 8; G17
	GN	1	Rubiaceae	<i>Sarcocephalus pobeguini</i> Pobeg.	3; 4
	GN	1	Rubiaceae	<i>Sherbournia bignoniiflora</i> (Welw.) Hua	3; 4
	BU	1	Rubiaceae	<i>Sherbournia calycina</i> (G. Don) Hua	3; 4; 8; G17; G29; G31
	GN	1	Rubiaceae	<i>Spermacoce exilis</i> (L.O. Williams) C. D. Adams ex W.C. Burger & C.M. [<i>S. mauritiana</i> Osia Gideon]	8; G17; G31
	BU	1	Rubiaceae	<i>Tarenna bipindensis</i> (K. Schum.) Bremek.	3; 4; 8; G17; G31
	gn	1	Rubiaceae	<i>Tarenna eketensis</i> Wernham var. <i>eketensis</i>	[3; 8; 4]; G17; G31
	BU	1	Rubiaceae	<i>Tarenna gracilis</i> (Stapf) Keay	3; 4; 8; G17; G31
	bu	2	Rubiaceae	<i>Tarenna vignei</i> Hutch. & Dalziel var. <i>subglabra</i> Keay	[3; 8; 4]; G17; G31
	GN	1	Rubiaceae	<i>Tricalysia elliotii</i> (K. Schum.) Hutch. & Dalziel	4; 8; G17; G31
	GN	1	Rubiaceae	<i>Tricalysia oligoneura</i> K. Schum.	3; 4
	GN	1	Rubiaceae	<i>Tricalysia pallens</i> Hiern	2; 3; 4; 7; G31
	BU	1	Rubiaceae	<i>Tricalysia reticulata</i> (Benth.) Hiern	3; 4; 8; G17
	BU	1	Rubiaceae	<i>Trichostachys aurea</i> Hiern	FWTA; 3; 4
	GN	1	Rubiaceae	<i>Uncaria africana</i> G. Don	3; G31
	BU	1	Rubiaceae	<i>Uncaria talbotii</i> Wernham	4; 8; G17
	BU	1	Rubiaceae	<i>Vangueriella nigerica</i> (Robyns) Verdc.	G17; G29; G31
	BU	1	Rubiaceae	<i>Vangueriella orthacantha</i> (Mildbr.) Bridson & Verdc.	3; 4; 8; G17
	BU	1	Rubiaceae	<i>Vangueriella vanguerioides</i> (Hiern) Verdc.	3; 4; 8; G17
	GN	1	Rubiaceae	<i>Virectaria procumbens</i> (Sm.) Bremek.	FWTA; 3; 4; G31; G46
	GN	1	Rutaceae	<i>Citropsis articulata</i> (Willd. ex Spreng.) Swingle & M. Kellerm.	3; 4
EN	BU	1	Rutaceae	<i>Vepris heterophylla</i> (Engl.) Letouzey	IBAT; 4
	BU	1	Rutaceae	<i>Vepris hiernii</i> Gereau	3; 4
NT	BU	1	Rutaceae	<i>Vepris suaveolens</i> (Engl.) Mziray	2; 3; 4
	GN	1	Rutaceae	<i>Zanthoxylum gillettii</i> (De Wild.) P. G. Waterman	2; 3; 4; 7
	GN	1	Rutaceae	<i>Zanthoxylum leprieurii</i> Guill. & Perr.	2; 7
	GN	1	Rutaceae	<i>Zanthoxylum rubescens</i> Planch. ex Hook. f.	G31
	GN	1	Salicaceae	<i>Homalium africanum</i> (Hook. f.) Benth.	3; 4
	BU	1	Salicaceae	<i>Homalium letestui</i> Pellegr.	3; 4
	GN	1	Salicaceae	<i>Homalium longistylum</i> Mast.	3; 4; G31
	GN	1	Salicaceae	<i>Homalium stipulaceum</i> Welw. ex Mast.	3; 4

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	BU	4	Salicaceae	<i>Oncoba brachyanthera</i> Oliv.	G29
	GN	1	Salicaceae	<i>Oncoba dentata</i> Oliv. [<i>Lindackeria dentata</i> (Oliv.) Gilg]	FWTA; 3; 8; G17; G31
	BU	1	Salicaceae	<i>Oncoba echinata</i> Oliv. [<i>Caloncoba echinata</i>]	3; 4; 7
	BU	1	Salicaceae	<i>Oncoba gilgiana</i> Sprague	3
	BU	1	Salicaceae	<i>Ophiobotrys zenkeri</i> Gilg	2; 3; 4; G29
EN	BU	1	Santalaceae	<i>Okoubaka aubrevillei</i> Pellegr. & Normand	3; 4; 8; 7
	GN	1	Sapindaceae	<i>Allophylus africanus</i> P. Beauv.	3; 4
	BU	1	Sapindaceae	<i>Allophylus talbotii</i> Baker f.	3
	GN	1	Sapindaceae	<i>Blighia sapida</i> K. D. Koenig	2; 3; 4; 7; G29
	GN	1	Sapindaceae	<i>Blighia unijugata</i> Baker	2; 3; 4
	GN	1	Sapindaceae	<i>Blighia welwitschii</i> (Hiern) Radlk.	2; 3; 4
	GN	1	Sapindaceae	<i>Cardiospermum grandiflorum</i> Sw.	4; 8; G17; G31
	BU	1	Sapindaceae	<i>Chytranthus atroviolaceus</i> Baker f. ex Hutch. & Dalziel	4; G29
	GN	1	Sapindaceae	<i>Chytranthus carneus</i> Radlk.	3; 4; 7; G17; G31
	BU	1	Sapindaceae	<i>Chytranthus cauliflorus</i> (Hutch. & Dalziel) Wickens	7
	GN	1	Sapindaceae	<i>Chytranthus macrobotrys</i> (Gilg) Exell & Mendonça	4; 7; G29
	BU	1	Sapindaceae	<i>Deinbollia grandifolia</i> Hook. f.	3; 4; G17; G31
	BU	4	Sapindaceae	<i>Deinbollia pinnata</i> (Poir.) Schumach. & Thonn.	4
	BU	1	Sapindaceae	<i>Eriocoelum pungens</i> Radlk. ex Engl.	3; 4
	GN	1	Sapindaceae	<i>Lecaniodiscus cupanioides</i> Planch.	FWTA; 3; 4; G17; G31
EN	BK	1	Sapindaceae	<i>Lecaniodiscus punctatus</i> J.B. Hall	3; 4
	BU	4	Sapindaceae	<i>Lychnodiscus dananensis</i> Aubrév. & Pellegr.	G29
	BU	1	Sapindaceae	<i>Lychnodiscus reticulatus</i> Radlk.	FWTA; 3; 4; G29
	GN	1	Sapindaceae	<i>Majidea fosteri</i> (Sprague) Radlk.	2; 3; 4
	BU	1	Sapindaceae	<i>Pancovia sessiliflora</i> Hutch. & Dalziel	3; 4
	GN	1	Sapindaceae	<i>Pancovia turbinata</i> Radlk. [<i>P. pedicellaris</i> Radlk. & Gilg]	3; 4
	GN	1	Sapindaceae	<i>Paullinia pinnata</i> L.	1; G17; G31
EN	BU	1	Sapindaceae	<i>Placodiscus attenuatus</i> J.B. Hall	3; 4
VU	BU	1	Sapindaceae	<i>Placodiscus boya</i> Aubrév. & Pellegr.	IBAT; 2; 3; 4; 7
VU	GD	1	Sapindaceae	<i>Placodiscus bracteosus</i> J.B. Hall	G29
CR	GD	1	Sapotaceae	<i>Aubreginia taiensis</i> (Aubrév. & Pellegr.) Heine	IBAT; 4; G29
	GN	1	Sapotaceae	<i>Chrysophyllum africanum</i> A. DC.	2; 3; 4
	GN	1	Sapotaceae	<i>Chrysophyllum albidum</i> G. Don	2; 7; G29
	BU	1	Sapotaceae	<i>Chrysophyllum beguei</i> Aubrév. & Pellegr.	3; 4; G29
	BU	1	Sapotaceae	<i>Chrysophyllum giganteum</i> A. Chev.	2; 3; 4; 7
	BU	1	Sapotaceae	<i>Chrysophyllum perpulchrum</i> Mildbr. ex Hutch. & Dalziel	2; 3; 4; 7; 8; G17; G29; G31
	GN	1	Sapotaceae	<i>Chrysophyllum pruniforme</i> Pierre ex Engl.	2; 3; 4; 8; G17; G31
	GN	1	Sapotaceae	<i>Chrysophyllum subnudum</i> Baker	2; 3; 4; 7
	BU	1	Sapotaceae	<i>Chrysophyllum ubangiense</i> (De Wild.) D. J. Harris	2; 3; 4; G29
	GN	1	Sapotaceae	<i>Chrysophyllum welwitschii</i> Engl.	3; 4
	BU	1	Sapotaceae	<i>Englerophytum oblanceolatum</i> (S. Moore) T. D. Penn. [<i>Bequaertiodendron oblanceolatum</i>]	FWTA; 7
	GN	1	Sapotaceae	<i>Manilkara obovata</i> (Sabine & G. Don) J. H. Hemsl.	2; 3; 4
EN	BU	1	Sapotaceae	<i>Neolemonniera clitandrifolia</i> (A. Chev.) Heine	IBAT; 3; 4; 7; 8; G17; G31
	BU	1	Sapotaceae	<i>Omphalocarpum ahia</i> A. Chev.	2; 7; G31
	GN	1	Sapotaceae	<i>Omphalocarpum elatum</i> Miers	2; 3; 4; 7; G29; G31
	BU	1	Sapotaceae	<i>Omphalocarpum procerum</i> P. Beauv.	3; 4
	GN	1	Sapotaceae	<i>Pouteria alnifolia</i> (Baker) Roberty	2
	BU	1	Sapotaceae	<i>Pouteria aningeri</i> Baehni	3; 4
	-	1	Sapotaceae	<i>Pouteria pierrei</i> (A. Chev.) Baehni	2
	BU	1	Sapotaceae	<i>Synsepalum afzelii</i> (Engl.) T. D. Penn. [<i>Afrosersalisia afzelii</i>]	2; 3; 4; 7; G31
	GN	1	Sapotaceae	<i>Synsepalum brevipes</i> (Baker) T. D. Penn.	2; 3; 4
	GN	4	Sapotaceae	<i>Synsepalum dulcificum</i> (Schumach. & Thonn.) Daniell	FWTA
	BU	1	Sapotaceae	<i>Synsepalum msolo</i> (Engl.) T. D. Penn. [<i>Pachystela msolo</i> (Engl.) Engl.]	FWTA; 3; 4; 8; G31
EN	BU	1	Sapotaceae	<i>Tieghemella heckelii</i> (A. Chev.) Pierre ex Dubard	IBAT; 2; 3; 4; 7; G29
	BU	1	Simaroubaceae	<i>Brucea guineensis</i> G. Don	4; 8
	GN	1	Simaroubaceae	<i>Quassia silvestris</i> Cheek & Jongkind [<i>Hannoa klaineana</i> Pierre & Engler]	3; 4; 7
	GN	1	Solanaceae	<i>Solanum erianthum</i> D. Don	7
	GN	1	Solanaceae	<i>Solanum welwitschii</i> C.H. Wright	8; G17; G22; G29; G31; G51

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gn	1	Strombosiaceae	<i>Strombosia pustulata</i> Oliv. var. <i>pustulata</i> [<i>S. glaucescens</i>]	2; [3; 4]; 7; [G29]	
BU	1	Thymelaeaceae	<i>Craterosiphon scandens</i> Engl. & Gilg	3; 4; G29	
BU	4	Thymelaeaceae	<i>Dicranolepis grandiflora</i> Engl.	G29	
BU	1	Thymelaeaceae	<i>Dicranolepis persei</i> Cumm.	3; 4; 8; G17; G29; G31	
GN	1	Ulmaceae	<i>Holoptelea grandis</i> (Hutch.) Mildbr.	2; G29	
GN	1	Urticaceae	<i>Elatostema paivaezanum</i> Wedd.	FWTA; 3; 4; 8; G17; G31	
GN	4	Urticaceae	<i>Laportea aestuans</i> (L.) Chew	G29	
GN	1	Urticaceae	<i>Musanga cecropioides</i> R. Br.	2; 3; 4; 7; G31	
GN	1	Urticaceae	<i>Myrianthus arboreus</i> P. Beauv.	2; 3; 4; 7	
BU	1	Urticaceae	<i>Myrianthus libericus</i> Rendle	2; 3; 4; 7; G17; G31	
GN	1	Urticaceae	<i>Myrianthus serratus</i> (Trécul) Benth. & Hook.	G31	
BU	1	Urticaceae	<i>Urera keayi</i> Letouzey	4; 8; G17; G31	
BU	4	Urticaceae	<i>Urera oblongifolia</i> Benth.	G29	
BU	1	Urticaceae	<i>Urera obovata</i> Benth.	G17; G31	
BU	1	Violaceae	<i>Decorsella paradoxa</i> A. Chev.	3; 4	
GN	1	Violaceae	<i>Rinorea dentata</i> (P. Beauv.) Kuntze	7	
GN	1	Violaceae	<i>Rinorea ilicifolia</i> (Welw. ex Oliv.) Kuntze	3; 4; G29	
BU	1	Violaceae	<i>Rinorea kibbiensis</i> Chipp	FWTA; G29	
GN	1	Violaceae	<i>Rinorea oblongifolia</i> (C.H. Wright) Marquand ex Chipp	2; 3; 4; 7; 8; G17; G29; G31	
GN	1	Violaceae	<i>Rinorea welwitschii</i> (Oliv.) Kuntze	3; 4; 8; G17; G29; G31	
BU	1	Violaceae	<i>Rinorea yaundensis</i> Engl.	3; 4	
BU	1	Vitaceae	<i>Ampelocissus gracilipes</i> Stapf	G29	
GN	1	Vitaceae	<i>Cayratia debilis</i> (Baker) Suess. [<i>Cissus debilis</i>]	1; G17; G31	
GN	1	Vitaceae	<i>Cissus aralioides</i> (Baker) Planch.	3; 4; 7; 8; G17; G31	
GN	1	Vitaceae	<i>Cissus diffusiflora</i> (Baker) Planch.	4; 8; G17; G31	
BU	1	Vitaceae	<i>Cissus miegei</i> Tchoumé	4; 8; G17	
GN	1	Vitaceae	<i>Cissus petiolata</i> Hook. f.	1	
GN	1	Vitaceae	<i>Cissus producta</i> Afzel.	7; G17; G31	
GN	1	Vitaceae	<i>Cyphostemma adenocaula</i> (Steud. ex A. Rich.) Desc. ex Wild & R. B. Drumm.	4; 8; G17	
BU	1	Vitaceae	<i>Cyphostemma adenopodum</i> (Sprague) Desc. [<i>Cissus adenopoda</i>]	1	
BU	1	Vitaceae	<i>Cyphostemma vogelii</i> (Hook. f.) Desc.	4; 8; G17; G31	
GN	1	Vitaceae	<i>Leea guineensis</i> G. Don	3; 4; G29; G31; G46	
GN	1	Zygophyllaceae	<i>Balanites wilsoniana</i> Dawe & Sprague	3; 4	
GN	1	Amaryllidaceae	<i>Crinum jagus</i> (J. Thomps.) Dandy	3	
GN	4	Amaryllidaceae	<i>Crinum ornatum</i> (L. f. ex Aiton) Bury	G29	
GN	1	Amaryllidaceae	<i>Scadoxus cinnabarinus</i> (Decne.) Friis & Nordal	3; 8; G17; G29; G31	
BU	1	Araceae	<i>Amorphophallus johnsonii</i> N.E. Br.	3; 4; 7	
GN	1	Araceae	<i>Anchomanes difformis</i> (Blume) Engl.	3; 7	
BU	1	Araceae	<i>Cercestis afzelii</i> Schott	FWTA; 3; 4; 8; 7	
GN	1	Araceae	<i>Cercestis dinklagei</i> Engl.	3; 4; G29	
BU	1	Araceae	<i>Cercestis ivorensis</i> A. Chev.	3; 4	
BU	1	Araceae	<i>Culcasia angolensis</i> Welw. ex Schott	FWTA; 3; 4; 7	
GN	4	Araceae	<i>Culcasia bequaertii</i> De Wild. [<i>C. seretii</i> De Wild.]	G29	
BU	1	Araceae	<i>Culcasia glandulosa</i> Hepper	3; 4	
BU	4	Araceae	<i>Culcasia liberica</i> N.E. Br.	G29	
BU	1	Araceae	<i>Culcasia mannii</i> (Hook. f.) Engl.	G17	
BU	1	Araceae	<i>Culcasia parviflora</i> N.E. Br.	3; 4; G29	
LC	GN	1	Araceae	<i>Culcasia scandens</i> P. Beauv.	3; 4; G29; G31
LC	-	1	Araceae	<i>Culcasia striolata</i>	FWTA; 3; 4; G29
BU	1	Araceae	<i>Nepthytis afzelii</i> Schott	3; 4	
GN	1	Araceae	<i>Rhaphidophora africana</i> N.E. Br.	3; 4; G29; G31	
GN	1	Arecaceae	<i>Calamus deerratus</i> G. Mann & H. Wendl.	FWTA; 3; 4; 7; G29	
LC	GN	1	Arecaceae	<i>Elaeis guineensis</i> Jacq.	2; 3; 4; 7
LC	BU	1	Arecaceae	<i>Eremospatha hookeri</i> (G. Mann & H. Wendl.) H. Wendl.	3; 4; 7
LC	GN	1	Arecaceae	<i>Eremospatha macrocarpa</i> (G. Mann & H. Wendl.) H. Wendl.	3; 4; 7
LC	GN	1	Arecaceae	<i>Laccosperma opacum</i> (G. Mann & H. Wendl.) Drude	4; 7
LC	GN	1	Arecaceae	<i>Laccosperma secundiflorum</i> (P. Beauv.) Kuntze	7
GN	1	Arecaceae	<i>Raphia hookeri</i> G. Mann & H. Wendl.	2; 3; 4; 7; 8; G17; G31	
GN	4	Asparagaceae	<i>Chlorophytum alismifolium</i> Baker	G29	

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	gn	1	Asparagaceae	<i>Chlorophytum lancifolium</i> Welw. ex Baker subsp. <i>togoense</i> (Engl.) A.D. Poulsen & Nordal [<i>C. togoense</i> Engler]	3; 4
	GN	1	Asparagaceae	<i>Chlorophytum orchidastrum</i> Lindl.	3; 4; G17; G31
	BU	1	Asparagaceae	<i>Dracaena adamii</i> Hepper	7
	GN	1	Asparagaceae	<i>Dracaena arborea</i> (Willd.) Link	3; 4
LC	GN	1	Asparagaceae	<i>Dracaena camerooniana</i> Baker	3; 4
	BU	1	Asparagaceae	<i>Dracaena cristula</i> W. Bull	3; 4; 8; G29; G31
	GN	1	Asparagaceae	<i>Dracaena mannii</i> Baker	3; 4; 7
	GN	1	Asparagaceae	<i>Dracaena phrynioides</i> Hook.	3; 4; 7; 8; G17; G29; G31
	gn	1	Asparagaceae	<i>Dracaena surculosa</i> Lindl. var. <i>maculata</i> Hook. f.	[3; 4; 7; 8]; G17; [G29; G31]
	gn	4	Asparagaceae	<i>Dracaena surculosa</i> Lindl. var. <i>surculosa</i>	[3; 4; 7; 8]; G29; [G31]
VU	BU	1	Asparagaceae	<i>Dracaena viridiflora</i> Engl. & K. Krause [<i>D. mildbraedii</i> K.Krause]	4; 8; G17; G31
	GN	1	Colchicaceae	<i>Gloriosa superba</i> L.	G17
	GN	4	Commelinaceae	<i>Aneilema beniniense</i> (P. Beauv.) Kunth	FWTA
	GN	4	Commelinaceae	<i>Aneilema umbrosum</i>	FWTA
	BU	1	Commelinaceae	<i>Bufoerestia obovata</i> Brenan	3; 4
	BU	1	Commelinaceae	<i>Coleotrype laurentii</i> K. Schum.	3; 8; G17; G31
LC	GN	1	Commelinaceae	<i>Commelina benghalensis</i> L.	7
	GN	1	Commelinaceae	<i>Commelina capitata</i> Benth.	4; 8; G17; G31; G46
	GN	4	Commelinaceae	<i>Commelina congesta</i> C.B. Clarke	FWTA
	gn	4	Commelinaceae	<i>Commelina erecta</i> L. subsp. <i>erecta</i>	FWTA
	BU	1	Commelinaceae	<i>Commelina macrosperma</i> Morton	FWTA; 3; 4; 7; 8; G17
	GN	1	Commelinaceae	<i>Palisota barteri</i> Hook.	3; 4; G31
	BU	1	Commelinaceae	<i>Palisota bracteosa</i> C.B. Clarke	3; 4
	GN	1	Commelinaceae	<i>Palisota hirsuta</i> (Thunb.) K. Schum.	FWTA; 3; 4; G17
	BK	1	Commelinaceae	<i>Palisota pedicellata</i> K. Schum.	G46
	BU	1	Commelinaceae	<i>Palisota thollonii</i> Hua	G31
	GN	1	Commelinaceae	<i>Pollia condensata</i> C.B. Clarke	FWTA; 3; 4; G17; G29; G31
	GN	1	Commelinaceae	<i>Polyspatha paniculata</i> Benth.	3; 4; 8; G17; G31; G46
	GD	1	Commelinaceae	<i>Stanfieldiella axillaris</i> J. K. Morton	FWTA; 4; 8; G17
	GN	1	Commelinaceae	<i>Stanfieldiella imperforata</i> (C.B. Clarke) Brenan	3; 4
	GN	1	Costaceae	<i>Costus afer</i> Ker Gawl. [<i>C. deistelii</i> K.Schum.]	FWTA; 3; 4; 7; 8; 7; G29; G31; G31
	GN	1	Costaceae	<i>Costus dubius</i> (Afzel.) K. Schum.	3; 4; 7; G17; G31
	BU	1	Costaceae	<i>Paracostus englerianus</i> (K. Schum.) C. Specht [<i>Costus engleranus</i> K.Schum.]	FWTA; 3; 4; 8; 4; 7; G17; G31
LC	GN	1	Cyperaceae	<i>Cyperus difformis</i> L.	7; G17
LC	GN	1	Cyperaceae	<i>Cyperus distans</i> L. f.	7; G31
	GN	1	Cyperaceae	<i>Cyperus haspan</i> L.	8
	gn	1	Cyperaceae	<i>Cyperus laxus</i> Lam. subsp. <i>buchholzii</i> (Boeckeler) Lye	G17
	GN	1	Cyperaceae	<i>Cyperus renschii</i> Boeckeler	4; 8; G17
	gn	1	Cyperaceae	<i>Cyperus rotundus</i> L. var. <i>rotundus</i> [<i>C. tuberosus</i>]	7
	BU	1	Cyperaceae	<i>Cyperus soyauxii</i> Boeckeler	FWTA
	GN	4	Cyperaceae	<i>Cyperus tenuis</i> Sw.	G17
LC	GN	4	Cyperaceae	<i>Fimbristylis dichotoma</i> (L.) Vahl	G17
LC	GN	4	Cyperaceae	<i>Fimbristylis littoralis</i> Gaudich.	G17
	BU	1	Cyperaceae	<i>Hypolytrum poecilolepis</i> Nelmes [<i>H. poecilolepis</i> Nelmes]	3
	GN	4	Cyperaceae	<i>Kyllinga pumila</i>	G17
	BU	1	Cyperaceae	<i>Mapania baldwinii</i> Nelmes	FWTA; 3; 4; 7; 8; G17; G31
	BU	1	Cyperaceae	<i>Mapania coriandrum</i> Nelmes	3; 4; G29
LC	GN	4	Cyperaceae	<i>Rhynchospora corymbosa</i> (L.) Britton	G17
	BU	4	Dioscoreaceae	<i>Dioscorea cayenensis</i> Lam.	FWTA
	GN	4	Dioscoreaceae	<i>Dioscorea dumetorum</i> (Kunth) Pax	FWTA
	GN	1	Dioscoreaceae	<i>Dioscorea minutiflora</i> Engl.	3; 4; 8; G17; G29; G31; G51
	GN	1	Dioscoreaceae	<i>Dioscorea praehensilis</i> Benth.	7
	GN	1	Dioscoreaceae	<i>Dioscorea smilacifolia</i> De Wild.	3; 4; 7; G22; G31
	GN	1	Flagellariaceae	<i>Flagellaria guineensis</i> Schumach.	3; 4; 7; G29
	GN	1	Marantaceae	<i>Halopogon azurea</i> (K. Schum.) K. Schum.	FWTA; 3; 4; 8; G17; G29
	GN	1	Marantaceae	<i>Hypselodelphys poggeana</i> (K. Schum.) Milne-Redh.	3; 4; 7; G31

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	GN 1	Marantaceae	<i>Marantochloa conferta</i> (Benth.) A. C. Ley [<i>Ataenidia conferta</i> (Benth.) Milne-Redh.]	FWTA; 3; 4; 7; G17; G29; G31
	GN 1	Marantaceae	<i>Marantochloa congensis</i> (K. Schum.) J. Léonard & Mullend.	3; 4; 7; G17; G31
	GN 1	Marantaceae	<i>Marantochloa filipes</i> (Benth.) Hutch.	4; G29
	GN 1	Marantaceae	<i>Marantochloa leucantha</i> (K. Schum.) Milne-Redh.	3; 4; 7; G17; G31
	GN 1	Marantaceae	<i>Marantochloa mannii</i> (Benth.) Milne-Redh.	3; 4; 7
	GN 1	Marantaceae	<i>Marantochloa purpurea</i> (Ridl.) Milne-Redh.	FWTA; 3; 4; 7; G17; G29; G31
	GN 1	Marantaceae	<i>Megaphrynium macrostachyum</i> (Benth.) Milne-Redh.	7; G29
	GN 1	Marantaceae	<i>Sarcophrynium brachystachyum</i> (Benth.) K. Schum.	3; 4; 7; G29; G31
	GN 1	Marantaceae	<i>Sarcophrynium prionogonium</i> (K. Schum.) K. Schum.	3
	GN 1	Marantaceae	<i>Thaumatococcus daniellii</i> (Benn.) Benth.	7
	GN 1	Orchidaceae	<i>Aerangis biloba</i> (Lindl.) Schltr.	4; 8; G17; G30; G31
	GN 4	Orchidaceae	<i>Afropectinariella subulata</i> (Lindl.) M. Simo & Stevart [<i>Angraecum subulatum</i> Lindl.]	G29
LC	BU 1	Orchidaceae	<i>Angraecum bancoense</i> J. W. van der Burg	8; G17
	BU 1	Orchidaceae	<i>Angraecum birrimense</i> Rolfe	3
	BU 1	Orchidaceae	<i>Auxopus kamerunensis</i> Schltr.	8
	GN 4	Orchidaceae	<i>Auxopus macranthus</i> Summerh.	G17
	BU 4	Orchidaceae	<i>Bolusiella iridifolia</i> (Rolfe) Schltr.	G29
	BU 4	Orchidaceae	<i>Bolusiella maudiae</i> (Bolus) Schltr.	G22
	BU 4	Orchidaceae	<i>Bolusiella zenkeri</i> (Kraenzl.) Schltr.	G29
	BU 4	Orchidaceae	<i>Bulbophyllum barbigerum</i> Lindl.	G29
	GN 1	Orchidaceae	<i>Bulbophyllum oreonastes</i> Rchb. f.	FWTA 3 (in 7); 4
	GN 4	Orchidaceae	<i>Bulbophyllum schinzianum</i> Kraenzl. ex De Wild. & T. Durand	G29
	GN 1	Orchidaceae	<i>Corymborkis corymbis</i> Thouars	FWTA 3 (in 7); 4; G29
	BU 4	Orchidaceae	<i>Cyrtorchis aschersonii</i> (Kraenzl.) Schltr.	G29
	GN 1	Orchidaceae	<i>Cyrtorchis ringens</i> (Rchb. f.) Summerh.	4; 8; G17
	GN 1	Orchidaceae	<i>Diaphananthe pellucida</i> (Lindl.) Schltr.	3
	BU 1	Orchidaceae	<i>Diaphananthe rohrii</i> (Rchb. f.) Summerh.	3; 4
LC	BU 1	Orchidaceae	<i>Didymoplexis africana</i> Summerh.	G22
	BU 1	Orchidaceae	<i>Epipogium roseum</i> (D. Don) Lindl.	FWTA 3 (in 7); FWTA; G17
	GN 1	Orchidaceae	<i>Eulophia horsfallii</i> (Bateman) Summerh.	G29
	GN 1	Orchidaceae	<i>Hetaeria occidentalis</i> Summerh.	FWTA; 3; 4; 8; G17
	GN 1	Orchidaceae	<i>Manniella gustavi</i> Rchb. f.	3; 4
	GN 4	Orchidaceae	<i>Microcoelia caespitosa</i> (Rolfe) Summerh.	G29
	GN 4	Orchidaceae	<i>Podangis rhipsalisocia</i> Rchb. f.	G29
	GN 1	Orchidaceae	<i>Polystachya affinis</i> Lindl.	8; G17
	GN 1	Orchidaceae	<i>Polystachya paniculata</i> (Sw.) Rolfe	4; 8; G17; G31
	GD 4	Orchidaceae	<i>Rhipidoglossum laxiflorum</i> Summerh.	G29
	GN 1	Orchidaceae	<i>Rhipidoglossum rutilum</i> (Rchb. f.) Schltr.	4; 8; G17; G29; G31
	GN 1	Orchidaceae	<i>Solenangis clavata</i> (Rolfe) Schltr.	G29
	BU 1	Orchidaceae	<i>Tridactyle armeniaca</i> (Lindl.) Schltr.	FWTA; 3; 8; 4
	BU 4	Orchidaceae	<i>Tridactyle crassifolia</i> Summerh.	G29
	GN 1	Orchidaceae	<i>Zeuxine elongata</i> Rolfe	FWTA 3 (in 7)
	BU 1	Pandanaceae	<i>Pandanus candelabrum</i> P. Beauv. [<i>P. abbiwii</i> Huynh]	3; 4
	GN 1	Poaceae	<i>Brachiaria deflexa</i> (Schumach.) C.E. Hubb. ex Robyns	7
	GN 1	Poaceae	<i>Eleusine indica</i> (L.) Gaertn.	7
	BU 4	Poaceae	<i>Guaduella macrostachys</i> (K. Schum.) Pilg.	G29
	GN 1	Poaceae	<i>Leptaspis zeylanica</i> Nees ex Steud. [<i>L. cochleata</i>]	3; 4; 7; G17; G29; G31; G46
	GN 1	Poaceae	<i>Olyra latifolia</i> L.	3; 4; 7; G17; G29; G31
	gn 1	Poaceae	<i>Oplismenus hirtellus</i>	3; G29
	GN 1	Poaceae	<i>Panicum maximum</i> Jacq.	7
	GN 1	Poaceae	<i>Paspalum conjugatum</i> P. J. Bergius	3; 4
	GN 1	Smilacaceae	<i>Smilax anceps</i> Willd. [<i>S. kraussiana</i>]	1; 3; 4; 7; G29; G31
	GN 4	Zingiberaceae	<i>Aframomum alboviolaceum</i> (Ridl.) K. Schum.	G29
	GD 1	Zingiberaceae	<i>Aframomum atewae</i> Lock & J.B. Hall	3; 4; 7; 8; G17
	BU 1	Zingiberaceae	<i>Aframomum chrysanthum</i> Lock	4; 8; G17; G29; G31
	GD 4	Zingiberaceae	<i>Aframomum cordifolium</i> Lock & J.B. Hall	G29
	BU 1	Zingiberaceae	<i>Aframomum geocarpum</i> Lock & J.B. Hall	3; G29

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GD	1	Zingiberaceae	<i>Aframomum stanfieldii</i> Hepper	7
BU	4	Zingiberaceae	<i>Aframomum strobilaceum</i> (Sm.) Hepper	G29
LC BU	1	Zingiberaceae	<i>Aframomum sulcatum</i> (Oliv. & D. Hanb. ex Baker) K. Schum.	G22
GD	1	Zingiberaceae	<i>Renalmia battenbergiana</i> Cummins ex Baker	4; 8; G17

There are many introduced exotic and crop species occurring in and around Atewa Forest some of which are naturalised. The following list is of some of the commoner and more widespread non-native species including some that are naturalised. *Cedrela odorata* has been widely planted in Atewa Forest as part of the *Taungya* agroforestry system.

GX	1	Tectariaceae	<i>Triplophyllum pilosissimum</i> (J.Sm. ex T.Moore) Holttum	3; 4; G29
GX	1	Asteraceae	<i>Ageratum conyzoides</i> L.	4; 7; G17
GN	1	Asteraceae	<i>Chromolaena odorata</i> (L.) R. M. King & H. Rob.	7
GX	4	Asteraceae	<i>Fleischmannia microstemon</i> (Cass.) R. M. King & H. Rob. [<i>Eupatorium microstemon</i> Cass.]	FWTA
	1	Fabaceae	<i>Centrosema pubescens</i> Benth.	G17; G29; G31
	2	Fabaceae	<i>Senna hirsuta</i> (L.) H. S. Irwin & Barneby	G17; G31
	4	Euphorbiaceae	<i>Euphorbia heterophylla</i> L.	G29
GX	1	Meliaceae	<i>Cedrela odorata</i> L.	2; 4
	3	Solanaceae	<i>Capsicum annum</i> L.	G31
	1	Solanaceae	<i>Solanum torvum</i> Sw.	7; G17; G52; G31; G22; G51
	1	Verbenaceae	<i>Stachytarpheta cayennensis</i> (Rich.) Vahl	G17; G29; G31
GN	1	Verbenaceae	<i>Lantana camara</i> L.	7
	1	Urticaceae	<i>Cecropia peltata</i> L.	2
GX	1	Poaceae	<i>Axonopus compressus</i> (Sw.) P. Beauv.	7
	1	Poaceae	<i>Bambusa vulgaris</i> Schrad. ex J. C. Wendl.	7
GX	1	Poaceae	<i>Isachne albens</i> Trin. var. <i>buettneri</i> (Hack.) Veldkamp [<i>I. buettneri</i> Hack.]	3; 4; G29
	4	Poaceae	<i>Panicum laxum</i> Sw.	G29
	1	Poaceae	<i>Setaria sulcata</i> Raddi	7

Source references

- 1 = Addo-Fordjour & Rahmad, 2015
 2 = A Rocha unpublished (J. Dabo, P. Ekpe)
 3 = Hawthorne 1998 (in Jongkind 2007)
 4 = Hawthorne, 2008
 5 = Hodgetts *et al.*, 2016
 6 = Hoekstra, Wieringa, & Chatrou, 2016
 7 = Siaw, D.E.K.A. & Dabo, J. 2007
 8 = Wageningen University Herbarium (in Jongkind 2007)
 FTWA = Flora of Tropical West Africa
 IBAT: <https://conservation.ibat-alliance.org/>

GBIF sources:

- G16 Natural History Museum, London, Botany collection
 G17 Naturalis Biodiversity Center, Leiden, Botany collection
 G19 Royal Botanic Garden Edinburgh Herbarium
 G22 Royal Botanic Gardens, Kew, Herbarium
 G29 University of Ghana Herbarium
 G30 CSIC, Real Jardín Botánico, Colección de Plantas Vasculares

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- G31 Missouri Botanical Garden, Tropicos Specimen Data
- G34 iNaturalist
- G36 Muséum National d'Histoire Naturelle, Vascular Plants collection
- G41 Swedish Museum of Natural History, Phanerogamic Botanical Collections
- G45 Museum of Evolution, Uppsala, Botany Collection
- G46 National Museum of Natural History, Smithsonian Institution, Botany collection
- G47 Bioversity International, Bioversity Collecting Mission Database
- G48 Bioversity International, The Plant Collecting Exploration of Ghana
- G51 Centro Internacional de Agricultura Tropical, wild crop database (Bioversity)
- G52 Centro Internacional de Agricultura Tropical, wild crop database (PBI_NHM)
- G53 Centro Internacional de Agricultura Tropical, wild crop database
- G54 Centro Internacional de Agricultura Tropical, wild crop database (Bioversity-SINGER)
- G55 Centro Internacional de Agricultura Tropical (BHAM_Maxted)

Appendix 4 – Butterflies

Butterfly list of Atewa Range Forest Reserve, taken largely from Aduse–Poku and Doku–Marfo (2007).

SC = source. 1 = Aduse–Poku and Doku–Marfo (2007); 2 = iNaturalist (via GBIF); 3 = GBIF (no source given); 4 = Royal Belgian Institute of Natural Sciences, Ronald Brabant collection.

ST = status. C = confirmed; P = probable (138 species).

RL	Family	Species	SC	ST	HESPERIIDAE	Species	SC	ST
	HESPERIIDAE	<i>Abantis elegantula</i>	1	C	HESPERIIDAE	<i>Coeliades libeon</i>		1C
	HESPERIIDAE	<i>Abantis ja</i>	1	C	HESPERIIDAE	<i>Coeliades pistratus</i>		1C
	HESPERIIDAE	<i>Abantis leucogaster</i>	1	C	HESPERIIDAE	<i>Eagris decastigma</i>		1C
	HESPERIIDAE	<i>Abantis lucretia</i>	1	C	HESPERIIDAE	<i>Eagris denuba</i>		1C
	HESPERIIDAE	<i>Acleros bala</i>	1	P	HESPERIIDAE	<i>Eagris hereus</i>		1C
	HESPERIIDAE	<i>Acleros mackenii</i>	1	C	HESPERIIDAE	<i>Eagris subalbida</i>		1C
	HESPERIIDAE	<i>Acleros nigrapex</i>	1	C	HESPERIIDAE	<i>Eagris tetrastigma</i>		1C
	HESPERIIDAE	<i>Acleros ploetzi</i>	1	C	HESPERIIDAE	<i>Eagris tigris</i>		1C
	HESPERIIDAE	<i>Andronymus caesar</i>	1	C	HESPERIIDAE	<i>Eretis lugens</i>		1C
	HESPERIIDAE	<i>Andronymus evander</i>	1	C	HESPERIIDAE	<i>Eretis melania</i>		1P
	HESPERIIDAE	<i>Andronymus helles</i>	1	C	HESPERIIDAE	<i>Eretis plistonicus</i>		1C
	HESPERIIDAE	<i>Andronymus hero</i>	1	C	HESPERIIDAE	<i>Fresna carlo</i>		1P
	HESPERIIDAE	<i>Andronymus neander</i>	1	C	HESPERIIDAE	<i>Fresna cojo</i>		1C
	HESPERIIDAE	<i>Artitropa comus</i>	1	C	HESPERIIDAE	<i>Fresna netopha</i>		1C
	HESPERIIDAE	<i>Astictopterus anomoeus</i>	1	C	HESPERIIDAE	<i>Fresna nyassae</i>		1C
	HESPERIIDAE	<i>Borbo borbonica</i>	1	P	HESPERIIDAE	<i>Gamia buchholzi</i>		1C
	HESPERIIDAE	<i>Borbo fanta</i>	1	P	HESPERIIDAE	<i>Gamia shelleyi</i>		1P
	HESPERIIDAE	<i>Borbo fatuellus</i>	1	C	HESPERIIDAE	<i>Gorgyra aburae</i>		1C
	HESPERIIDAE	<i>Borbo micans</i>	1	C	HESPERIIDAE	<i>Gorgyra afikpo</i>		1C
	HESPERIIDAE	<i>Borbo perobscura</i>	1	C	HESPERIIDAE	<i>Gorgyra aretina</i>		1C
	HESPERIIDAE	<i>Caenides bengala</i>	1	P	HESPERIIDAE	<i>Gorgyra bina</i>		1C
	HESPERIIDAE	<i>Caenides dacela</i>	1	C	HESPERIIDAE	<i>Gorgyra diversata</i>		1P
	HESPERIIDAE	<i>Caenides dacena</i>	1	C	HESPERIIDAE	<i>Gorgyra heterochrus</i>		1P
	HESPERIIDAE	<i>Caenides dacenilla</i>	1	P	HESPERIIDAE	<i>Gorgyra mocquersyia</i>		1C
	HESPERIIDAE	<i>Caenides hidarioides</i>	1	C	HESPERIIDAE	<i>Gorgyra pali</i>		1C
	HESPERIIDAE	<i>Caenides kangvensis</i>	1	C	HESPERIIDAE	<i>Gorgyra sara</i>		1C
	HESPERIIDAE	<i>Caenides otilla</i>	1	P	HESPERIIDAE	<i>Gorgyra subfacatus</i>		1C
	HESPERIIDAE	<i>Caenides soritia</i>	1	C	HESPERIIDAE	<i>Gretna balenge</i>		1P
	HESPERIIDAE	<i>Caenides xychus</i>	1	P	HESPERIIDAE	<i>Gretna cylinda</i>		1P
	HESPERIIDAE	<i>Calleagris lacteus</i>	1	P	HESPERIIDAE	<i>Gretna waga</i>		1P
	HESPERIIDAE	<i>Celaenorrhinus ankasa</i>	1	C	HESPERIIDAE	<i>Gyrogra subnotata</i>		1C
	HESPERIIDAE	<i>Celaenorrhinus cf galenus</i>	1	C	HESPERIIDAE	<i>Hypoleucis ophiura</i>		1C
	HESPERIIDAE	<i>Celaenorrhinus galenus</i>	1	C	HESPERIIDAE	<i>Hypoleucis sophia</i>		1P
	HESPERIIDAE	<i>Celaenorrhinus leona</i>	1	C	HESPERIIDAE	<i>Hypoleucis tripunctata</i>		1C
	HESPERIIDAE	<i>Celaenorrhinus meditrina</i>	1	C	HESPERIIDAE	<i>Katreus johnstonii</i>		1C
	HESPERIIDAE	<i>Celaenorrhinus ovalis</i>	1	C	HESPERIIDAE	<i>Leona binoevatus</i>		1P
	HESPERIIDAE	<i>Celaenorrhinus plagiatas</i>	1	C	HESPERIIDAE	<i>Leona leonora</i>		1P
	HESPERIIDAE	<i>Celaenorrhinus proxima</i>	1	C	HESPERIIDAE	<i>Leona luehderi</i>		1P
	HESPERIIDAE	<i>Celaenorrhinus rutilans</i>	1	C	HESPERIIDAE	<i>Leona meloui</i>		1P
	HESPERIIDAE	<i>Celaenorrhinus sagamase</i>	1	C	HESPERIIDAE	<i>Leona stoehri</i>		1P
	HESPERIIDAE	<i>Ceratrachia argyrosticta</i>	1	C	HESPERIIDAE	<i>Loxolexis hollandi</i>		1C
	HESPERIIDAE	<i>Ceratrachia clara</i>	1	C	HESPERIIDAE	<i>Loxolexis holocausta</i>		1C
	HESPERIIDAE	<i>Ceratrachia maesseni</i>	1	C	HESPERIIDAE	<i>Melphina flavina</i>		1P
	HESPERIIDAE	<i>Ceratrachia nothus</i>	1	P	HESPERIIDAE	<i>Melphina malthina</i>		1P
	HESPERIIDAE	<i>Ceratrachia phocion</i>	1	C	HESPERIIDAE	<i>Melphina noctula</i>		1P
	HESPERIIDAE	<i>Ceratrachia semilutea</i>	1	C	HESPERIIDAE	<i>Melphina statirides</i>		1C
	HESPERIIDAE	<i>Coeliades bixana</i>	1	P	HESPERIIDAE	<i>Melphina tarace</i>		1C
	HESPERIIDAE	<i>Coeliades chalybe</i>	1	C	HESPERIIDAE	<i>Melphina unistriga</i>		1C
	HESPERIIDAE	<i>Coeliades forestan</i>	1	C	HESPERIIDAE	<i>Meza cybeutes</i>		1C
	HESPERIIDAE	<i>Coeliades hanno</i>	1	C	HESPERIIDAE	<i>Meza elba</i>		1C
	HESPERIIDAE				HESPERIIDAE	<i>Meza indusiata</i>		1P

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HESPERIIDAE	<i>Meza leucophaea</i>	1	C	HESPERIIDAE	<i>Teniorhinus watsoni</i>	1P
HESPERIIDAE	<i>Meza mabillei</i>	1	C	HESPERIIDAE	<i>Xanthodisca astrape</i>	1C
HESPERIIDAE	<i>Meza meza</i>	1	C	HESPERIIDAE	<i>Xanthodisca rega</i>	1P
HESPERIIDAE	<i>Monza alberti</i>	1	C	HESPERIIDAE	<i>Zophopetes cerymica</i>	1C
HESPERIIDAE	<i>Monza cretacea</i>	1	C	LYCAENIDAE	<i>Abisara gerontes</i>	1C
HESPERIIDAE	<i>Mopala orma</i>	1	P	LYCAENIDAE	<i>Abisara intermedia</i>	1P
HESPERIIDAE	<i>Osmodes adon</i>	1	C	LYCAENIDAE	<i>Abisara tantalus</i>	1P
HESPERIIDAE	<i>Osmodes adosus</i>	1	C	LYCAENIDAE	<i>Aethiopana honorius</i>	1C
HESPERIIDAE	<i>Osmodes banghaasi</i>	1	C	LYCAENIDAE	<i>Anthene atewa</i>	1C
HESPERIIDAE	<i>Osmodes costatus</i>	1	C	LYCAENIDAE	<i>Anthene crawshayi</i>	1C
HESPERIIDAE	<i>Osmodes distincta</i>	1	C	LYCAENIDAE	<i>Anthene definita</i>	1C
HESPERIIDAE	<i>Osmodes laronia</i>	1	C	LYCAENIDAE	<i>Anthene helpsi</i>	1C
HESPERIIDAE	<i>Osmodes lindseyi</i>	1	C	LYCAENIDAE	<i>Anthene irumu</i>	1P
HESPERIIDAE	<i>Osmodes lux</i>	1	C	LC LYCAENIDAE	<i>Anthene juba</i>	1C
HESPERIIDAE	<i>Osmodes omar</i>	1	P	LYCAENIDAE	<i>Anthene lachares</i>	1C
HESPERIIDAE	<i>Osmodes thora</i>	1	C	LYCAENIDAE	<i>Anthene larydas</i>	1C
HESPERIIDAE	<i>Osphantos ogowena</i>	1	P	LYCAENIDAE	<i>Anthene levis</i>	1P
HESPERIIDAE	<i>Paracleros biguttulus</i>	1	C	LYCAENIDAE	<i>Anthene ligures</i>	1P
HESPERIIDAE	<i>Paracleros maesseni</i>	1	C	LYCAENIDAE	<i>Anthene liodes</i>	1C
HESPERIIDAE	<i>Paracleros placidus</i>	1	P	LYCAENIDAE	<i>Anthene locuples</i>	1P
HESPERIIDAE	<i>Paracleros substrigata</i>	1	P	LYCAENIDAE	<i>Anthene lunulata</i>	1C
HESPERIIDAE	<i>Pardaleodes edipus</i>	1	C	LYCAENIDAE	<i>Anthene lysicles</i>	1C
HESPERIIDAE	<i>Pardaleodes sator</i>	1	C	LYCAENIDAE	<i>Anthene princeps</i>	1C
HESPERIIDAE	<i>Pardaleodes tibullus</i>	1	C	LYCAENIDAE	<i>Anthene radiata</i>	1C
HESPERIIDAE	<i>Pardaleodes xanthopeplus</i>	1	C	LYCAENIDAE	<i>Anthene rubricinctus</i>	1C
HESPERIIDAE	<i>Parnara monasi</i>	1	P	LYCAENIDAE	<i>Anthene scintillula</i>	1C
HESPERIIDAE	<i>Paronymus ligora</i>	1	C	LYCAENIDAE	<i>Anthene sylvanus</i>	1C
HESPERIIDAE	<i>Paronymus xanthias</i>	1	C	LYCAENIDAE	<i>Aphnaeus asterius</i>	1C
HESPERIIDAE	<i>Parosmodes lentiginosa</i>	1	C	LYCAENIDAE	<i>Aphnaeus orcas</i>	1P
HESPERIIDAE	<i>Pelopidas mathias</i>	1	C	LYCAENIDAE	<i>Argyrocheila undifera</i>	1C
HESPERIIDAE	<i>Pelopidas thrax</i>	1	C	LYCAENIDAE	<i>Aslauga lamborni</i>	1C
HESPERIIDAE	<i>Platylesches galesa</i>	1	C	LYCAENIDAE	<i>Aslauga marginalis</i>	1P
HESPERIIDAE	<i>Platylesches moritili</i>	1	P	LYCAENIDAE	<i>Axiocerses harpax</i>	1C
HESPERIIDAE	<i>Platylesches picanini</i>	1	C	LC LYCAENIDAE	<i>Azanus isis</i>	1C
HESPERIIDAE	<i>Procampa rara</i>	1	C	LYCAENIDAE	<i>Azanus mirza</i>	1C
HESPERIIDAE	<i>Prosopalpus debilis</i>	1	C	LYCAENIDAE	<i>Cacyreus audeoudi</i>	1P
HESPERIIDAE	<i>Prosopalpus saga</i>	1	P	LYCAENIDAE	<i>Cacyreus lingeus</i>	1C
HESPERIIDAE	<i>Prosopalpus styla</i>	1	P	LYCAENIDAE	<i>Cephetola cephenia</i>	1P
HESPERIIDAE	<i>Pteroteinon caenira</i>	1	C	LYCAENIDAE	<i>Cephetola obscura</i>	1C
HESPERIIDAE	<i>Pteroteinon ceucaenira</i>	1	C	LYCAENIDAE	<i>Cephetola pinodes</i>	1P
HESPERIIDAE	<i>Pteroteinon concaenira</i>	1	P	LYCAENIDAE	<i>Cerautola ceraunia</i>	1P
HESPERIIDAE	<i>Pteroteinon iricolor</i>	1	C	LC LYCAENIDAE	<i>Cerautola crowleyi</i>	1P
HESPERIIDAE	<i>Pteroteinon laterculus</i>	1	P	LYCAENIDAE	<i>Citrinophila erastus</i>	1C
HESPERIIDAE	<i>Pteroteinon laufella</i>	1	C	LYCAENIDAE	<i>Citrinophila marginalis</i>	1C
HESPERIIDAE	<i>Pteroteinon pruna</i>	1	P	LYCAENIDAE	<i>Citrinophila similis</i>	1C
HESPERIIDAE	<i>Pyrrhochalcia iphis</i>	1	C	LYCAENIDAE	<i>Cupidesthes jacksoni</i>	1C
HESPERIIDAE	<i>Rhabdomantis galatia</i>	1	C	LYCAENIDAE	<i>Cupidesthes leonina</i>	1C
HESPERIIDAE	<i>Rhabdomantis sosia</i>	1	C	LYCAENIDAE	<i>Cupidesthes lithas</i>	1C
HESPERIIDAE	<i>Sarangesa bouvieri</i>	1	C	LYCAENIDAE	<i>Cupidopsis cissus</i>	1C
HESPERIIDAE	<i>Sarangesa brigida</i>	1	C	LYCAENIDAE	<i>Dapidodigma demeter</i>	1C
HESPERIIDAE	<i>Sarangesa majorella</i>	1	P	LYCAENIDAE	<i>Dapidodigma hymen</i>	1P
HESPERIIDAE	<i>Sarangesa tertullianus</i>	1	P	LYCAENIDAE	<i>Deudorix antalus</i>	1C
HESPERIIDAE	<i>Sarangesa thecla</i>	1	C	LYCAENIDAE	<i>Deudorix caliginosa</i>	1C
HESPERIIDAE	<i>Semalea arela</i>	1	C	LYCAENIDAE	<i>Deudorix dinomenes</i>	1P
HESPERIIDAE	<i>Semalea atrio</i>	1	C	LYCAENIDAE	<i>Deudorix galathea</i>	1C
HESPERIIDAE	<i>Semalea pulvina</i>	1	C	LYCAENIDAE	<i>Deudorix kayonza</i>	1C
HESPERIIDAE	<i>Semalea sextilis</i>	1	C	LYCAENIDAE	<i>Deudorix lorisona</i>	1C
HESPERIIDAE	<i>Spialia ploetzi</i>	1	C	LYCAENIDAE	<i>Deudorix odana</i>	1C
HESPERIIDAE	<i>Tagiades flesus</i>	1	C	LYCAENIDAE	<i>Eicochrysops hippocrates</i>	1C

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	LYCAENIDAE	<i>Epitola posthumus</i>	1	C	LYCAENIDAE	<i>Lachnocnema emperanus</i>	1P
LC	LYCAENIDAE	<i>Epitola urania</i>	1	C	LYCAENIDAE	<i>Lachnocnema reutlingeri</i>	1C
	LYCAENIDAE	<i>Epitola uranoides</i>	1	P	LYCAENIDAE	<i>Lachnocnema vuattouxi</i>	1C
	LYCAENIDAE	<i>Epitolina catori</i>	1	C	LYCAENIDAE	<i>Lampides boeticus</i>	1P
	LYCAENIDAE	<i>Epitolina dispar</i>	1	C	LYCAENIDAE	<i>Larinopoda eurema</i>	1C
	LYCAENIDAE	<i>Epitolina melissa</i>	1	C	LYCAENIDAE	<i>Leptotes babaulti</i>	1P
	LYCAENIDAE	<i>Eresina maesseni</i>	1	P	LYCAENIDAE	<i>Leptotes brevidentatus</i>	1P
	LYCAENIDAE	<i>Eresina theodori</i>	1	P	LYCAENIDAE	<i>Leptotes jeanneli</i>	1P
LC	LYCAENIDAE	<i>Eresiomera bicolor</i>	1	C	LYCAENIDAE	<i>Leptotes pirithous</i>	1C
	LYCAENIDAE	<i>Eresiomera isca</i>	1	C	LYCAENIDAE	<i>Lipaphnaeus leonina</i>	1C
	LYCAENIDAE	<i>Eresiomera jacksoni</i>	1	P	LYCAENIDAE	<i>Liptena albicans</i>	1C
	LYCAENIDAE	<i>Eresiomera petersi</i>	1	C	LYCAENIDAE	<i>Liptena alluaudi</i>	1C
	LYCAENIDAE	<i>Etesiolaus catori</i>	1	P	LYCAENIDAE	<i>Liptena catalina</i>	1C
	LYCAENIDAE	<i>Euchrysops malathana</i>	1	C	LYCAENIDAE	<i>Liptena evanescens</i>	1P
	LYCAENIDAE	<i>Euchrysops osiris</i>	1	C	LYCAENIDAE	<i>Liptena flavicans</i>	1C
	LYCAENIDAE	<i>Euliphyra hewitsoni</i>	1	P	LYCAENIDAE	<i>Liptena griveaudi</i>	1C
	LYCAENIDAE	<i>Euliphyra leucyana</i>	1	P	LYCAENIDAE	<i>Liptena helena</i>	1C
	LYCAENIDAE	<i>Euliphyra mirifica</i>	1	P	LYCAENIDAE	<i>Liptena rochei</i>	1C
	LYCAENIDAE	<i>Falcuna campimus</i>	1	C	LYCAENIDAE	<i>Liptena septistrigata</i>	1C
LC	LYCAENIDAE	<i>Falcuna leonensis</i>	1	C	LYCAENIDAE	<i>Liptena similis</i>	1C
	LYCAENIDAE	<i>Geritola virginea</i>	1	P	LYCAENIDAE	<i>Liptena simplicia</i>	1C
	LYCAENIDAE	<i>Hewitsonia boisduvalii</i>	1	C	LYCAENIDAE	<i>Liptena submacula</i>	1C
	LYCAENIDAE	<i>Hewitsonia inexpectata</i>	1	C	LC LYCAENIDAE	<i>Liptena xanthostola</i>	1C
	LYCAENIDAE	<i>Hewitsonia occidentalis</i>	1	P	LYCAENIDAE	<i>Megalopalpus metaleucus</i>	1C
	LYCAENIDAE	<i>Hypolycaena antifaunus</i>	1;2	C	LYCAENIDAE	<i>Megalopalpus zymna</i>	1C
	LYCAENIDAE	<i>Hypolycaena clenchi</i>	1	C	LC LYCAENIDAE	<i>Micropentila adelgitha</i>	1;2C
	LYCAENIDAE	<i>Hypolycaena dubia</i>	1	C	LYCAENIDAE	<i>Micropentila adelgunda</i>	1P
	LYCAENIDAE	<i>Hypolycaena hatita</i>	1	C	LYCAENIDAE	<i>Micropentila brunnea</i>	1C
	LYCAENIDAE	<i>Hypolycaena kadiskos</i>	1	C	LYCAENIDAE	<i>Micropentila dorothea</i>	1C
	LYCAENIDAE	<i>Hypolycaena kakumi</i>	1	C	LC LYCAENIDAE	<i>Mimacraea darwinia</i>	1C
	LYCAENIDAE	<i>Hypolycaena lebona</i>	1;2	C	LYCAENIDAE	<i>Mimacraea neurata</i>	1C
	LYCAENIDAE	<i>Hypolycaena liara</i>	1	C	LYCAENIDAE	<i>Mimeresia cellularis</i>	1C
LC	LYCAENIDAE	<i>Hypolycaena nigra</i>	1	C	LYCAENIDAE	<i>Mimeresia issia</i>	1C
	LYCAENIDAE	<i>Hypolycaena philippus</i>	1	C	LYCAENIDAE	<i>Mimeresia libentina</i>	1C
	LYCAENIDAE	<i>Hypolycaena scintillans</i>	1	C	LYCAENIDAE	<i>Mimeresia moyambina</i>	1C
	LYCAENIDAE	<i>Hypomyrina mimetica</i>	1	P	LYCAENIDAE	<i>Mimeresia semirufa</i>	1C
	LYCAENIDAE	<i>Hypomyrina nomion</i>	1	P	LYCAENIDAE	<i>Neaveia lamborni</i>	1P
	LYCAENIDAE	<i>Hypophytala benitensis</i>	1	P	LYCAENIDAE	<i>Neurellipes chryseostictus</i>	1C
	LYCAENIDAE	<i>Hypophytala henleyi</i>	1	P	LYCAENIDAE	<i>Neurellipes fulvus</i>	1C
	LYCAENIDAE	<i>Hypophytala hyettina</i>	1	C	LYCAENIDAE	<i>Neurellipes lusones</i>	1C
	LYCAENIDAE	<i>Hypophytala hyettoides</i>	1	P	LYCAENIDAE	<i>Neurellipes staudingeri</i>	1P
	LYCAENIDAE	<i>Iolaua aethria</i>	1	C	LYCAENIDAE	<i>Neurypexina lyzanius</i>	1C
	LYCAENIDAE	<i>Iolaua alcibiades</i>	1	P	LYCAENIDAE	<i>Oboronia guessfeldti</i>	1C
	LYCAENIDAE	<i>Iolaua bellina</i>	1	P	LYCAENIDAE	<i>Oboronia ornata</i>	1C
	LYCAENIDAE	<i>Iolaua calisto</i>	1	P	LYCAENIDAE	<i>Oboronia punctatus</i>	1C
DD	LYCAENIDAE	<i>Iolaua carolinae</i>	1	P	LYCAENIDAE	<i>Ornipholidotos irwini</i>	1C
	LYCAENIDAE	<i>Iolaua eurusis</i>	1	C	LYCAENIDAE	<i>Ornipholidotos issia</i>	1C
	LYCAENIDAE	<i>Iolaua farquharsoni</i>	1	P	LYCAENIDAE	<i>Ornipholidotos nigeriae</i>	1C
LC	LYCAENIDAE	<i>Iolaua iasis</i>	1	P	LYCAENIDAE	<i>Ornipholidotos nymphea</i>	1C
	LYCAENIDAE	<i>Iolaua iulus</i>	1	C	LYCAENIDAE	<i>Ornipholidotos onitshae</i>	1C
	LYCAENIDAE	<i>Iolaua lukabas</i>	1	P	LYCAENIDAE	<i>Ornipholidotos tiassale</i>	1C
	LYCAENIDAE	<i>Iolaua maesa</i>	1	P	LC LYCAENIDAE	<i>Oxylides faunus</i>	1C
	LYCAENIDAE	<i>Iolaua mane</i>	1	C	LC LYCAENIDAE	<i>Paradeudorix ealea</i>	1C
LC	LYCAENIDAE	<i>Iolaua paneperata</i>	1	C	LYCAENIDAE	<i>Paradeudorix moyambina</i>	1C
	LYCAENIDAE	<i>Iolaua timon</i>	1	C	LYCAENIDAE	<i>Pentila hewitsonii</i>	1C
	LYCAENIDAE	<i>Iridana exquisuta</i>	1	P	LYCAENIDAE	<i>Pentila pauli</i>	1C
	LYCAENIDAE	<i>Iridana incredibilis</i>	1	P	LYCAENIDAE	<i>Pentila petreia</i>	1C
LC	LYCAENIDAE	<i>Iridana nigeriana</i>	1	P	LYCAENIDAE	<i>Pentila petreoides</i>	1C
	LYCAENIDAE	<i>Kakumia otlauga</i>	1	C	LYCAENIDAE	<i>Pentila phidia</i>	1C

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LC	LYCAENIDAE	<i>Pentila picena</i>	1	C	NYMPHALIDAE	<i>Acraea encendon</i>	1C
	LYCAENIDAE	<i>Phlyaria cyara</i>	1	C	NYMPHALIDAE	<i>Acraea endoscota</i>	1C
	LYCAENIDAE	<i>Phytala elais</i>	1	C	NYMPHALIDAE	<i>Acraea epaea</i>	1C
	LYCAENIDAE	<i>Pilodeudorix aurivilliusi</i>	1	C	NYMPHALIDAE	<i>Acraea jodutta</i>	1C
	LYCAENIDAE	<i>Pilodeudorix caerulea</i>	1	P	NYMPHALIDAE	<i>Acraea kraka</i>	1C
	LYCAENIDAE	<i>Pilodeudorix camerona</i>	1	P	NYMPHALIDAE	<i>Acraea leucographa</i>	1C
	LYCAENIDAE	<i>Pilodeudorix deritas</i>	1	P	NYMPHALIDAE	<i>Acraea lycoa</i>	1C
	LYCAENIDAE	<i>Pilodeudorix diyllus</i>	1	C	NYMPHALIDAE	<i>Acraea macaria</i>	1C
	LYCAENIDAE	<i>Pilodeudorix kiellandi</i>	1	C	NYMPHALIDAE	<i>Acraea neobule</i>	1C
	LYCAENIDAE	<i>Pilodeudorix laticlavata</i>	1	C	NYMPHALIDAE	<i>Acraea orestia</i>	1C
LC	LYCAENIDAE	<i>Pilodeudorix leonina</i>	1	C	NYMPHALIDAE	<i>Acraea orina</i>	1C
	LYCAENIDAE	<i>Pilodeudorix otraeda</i>	1	C	NYMPHALIDAE	<i>Acraea parrhasia</i>	1C
LC	LYCAENIDAE	<i>Pilodeudorix pseudoderitas</i>	1	P	NYMPHALIDAE	<i>Acraea peneleos</i>	1C
	LYCAENIDAE	<i>Pilodeudorix violetta</i>	1	C	NYMPHALIDAE	<i>Acraea perenna</i>	1C
	LYCAENIDAE	<i>Pilodeudorix virgata</i>	1	C	NYMPHALIDAE	<i>Acraea pharsalus</i>	1C
	LYCAENIDAE	<i>Pilodeudorix zela</i>	1	C	NYMPHALIDAE	<i>Acraea polis</i>	1C
	LYCAENIDAE	<i>Pseudaletis leonis</i>	1	P	NYMPHALIDAE	<i>Acraea pseudegina</i>	1C
	LYCAENIDAE	<i>Pseuderisia eleaza</i>	1	C	NYMPHALIDAE	<i>Acraea pseudepaea</i>	1C
	LYCAENIDAE	<i>Pseudonacaduba sichela</i>	1	C	NYMPHALIDAE	<i>Acraea quirina</i>	1C
	LYCAENIDAE	<i>Ptelina carnuta</i>	1	C	NYMPHALIDAE	<i>Acraea rogersi</i>	1C
	LYCAENIDAE	<i>Spalgis lemolea</i>	1	C	NYMPHALIDAE	<i>Acraea serena</i>	1C
	LYCAENIDAE	<i>Spindasis iza</i>	1	C	NYMPHALIDAE	<i>Acraea translucida</i>	1C
	LYCAENIDAE	<i>Spindasis menelas</i>	1	P	NYMPHALIDAE	<i>Acraea umbra</i>	1C
	LYCAENIDAE	<i>Spindasis mozambica</i>	1	P	NYMPHALIDAE	<i>Acraea vesperalis</i>	1C
	LYCAENIDAE	<i>Stempfferia cercene</i>	1	P	NYMPHALIDAE	<i>Acraea vestalis</i>	1C
	LYCAENIDAE	<i>Stempfferia ciconia</i>	1	C	NYMPHALIDAE	<i>Acraea zetes</i>	1C
	LYCAENIDAE	<i>Stempfferia dorothea</i>	1	P	NYMPHALIDAE	<i>Amauris damocles</i>	1C
	LYCAENIDAE	<i>Stempfferia kholifa</i>	1	P	NYMPHALIDAE	<i>Amauris hecate</i>	1C
	LYCAENIDAE	<i>Stempfferia leonina</i>	1	P	NYMPHALIDAE	<i>Amauris niavius</i>	1C
	LYCAENIDAE	<i>Stempfferia michelae</i>	1	C	NYMPHALIDAE	<i>Amauris tartarea</i>	1C
	LYCAENIDAE	<i>Stempfferia moyambina</i>	1	C	NYMPHALIDAE	<i>Antanartia delius</i>	1C
	LYCAENIDAE	<i>Stempfferia staudingeri</i>	1	C	NYMPHALIDAE	<i>Apaturopsis cleochares</i>	1C
	LYCAENIDAE	<i>Telipna acraea</i>	1	C	NYMPHALIDAE	<i>Ariadne albifascia</i>	1C
LC	LYCAENIDAE	<i>Telipna semirufa</i>	1	C	NYMPHALIDAE	<i>Ariadne enotrea</i>	1C
	LYCAENIDAE	<i>Tetrrarhanis baralingam</i>	1	P	NYMPHALIDAE	<i>Aterica galene</i>	1C
	LYCAENIDAE	<i>Tetrrarhanis stempfferi</i>	1	C	NYMPHALIDAE	<i>Bebearia abesa</i>	1C
	LYCAENIDAE	<i>Tetrrarhanis symplocus</i>	1	C	NYMPHALIDAE	<i>Bebearia absolon</i>	1C
	LYCAENIDAE	<i>Thermoniphas micylus</i>	1	C	NYMPHALIDAE	<i>Bebearia arcadius</i>	1C
	LYCAENIDAE	<i>Torbenia wojtusiaki</i>	1	C	NYMPHALIDAE	<i>Bebearia ashantina</i>	1C
	LYCAENIDAE	<i>Triclema fasciatus</i>	1	P	NYMPHALIDAE	<i>Bebearia barce</i>	1C
	LYCAENIDAE	<i>Triclema hades</i>	1	C	NYMPHALIDAE	<i>Bebearia carshena</i>	1C
	LYCAENIDAE	<i>Triclema inconspicua</i>	1	P	NYMPHALIDAE	<i>Bebearia cocalia</i>	1C
	LYCAENIDAE	<i>Triclema lamias</i>	1	P	NYMPHALIDAE	<i>Bebearia cutteri</i>	1C
	LYCAENIDAE	<i>Triclema lucretilis</i>	1	C	NYMPHALIDAE	<i>Bebearia demetra</i>	1P
	LYCAENIDAE	<i>Triclema nigeriae</i>	1	C	LC NYMPHALIDAE	<i>Bebearia laetitia</i>	1C
	LYCAENIDAE	<i>Triclema obscura</i>	1	P	NYMPHALIDAE	<i>Bebearia lucayensis</i>	1C
LC	LYCAENIDAE	<i>Tuxentius carana</i>	1	C	LC NYMPHALIDAE	<i>Bebearia maledicta</i>	1C
	LYCAENIDAE	<i>Uranothauma falkensteini</i>	1	C	NYMPHALIDAE	<i>Bebearia mandinga</i>	1C
	LYCAENIDAE	<i>Zizeeria knysna</i>	1	C	NYMPHALIDAE	<i>Bebearia mardania</i>	1C
LC	LYCAENIDAE	<i>Zizina antanossa</i>	1	P	NYMPHALIDAE	<i>Bebearia osyris</i>	1C
	LYCAENIDAE	<i>Zizula hylax</i>	1	P	NYMPHALIDAE	<i>Bebearia oxione</i>	1C
	NYMPHALIDAE	<i>Acraea abdera</i>	1	P	NYMPHALIDAE	<i>Bebearia paludicola</i>	1C
	NYMPHALIDAE	<i>Acraea acerata</i>	1	C	NYMPHALIDAE	<i>Bebearia phantasina</i>	1C
	NYMPHALIDAE	<i>Acraea alcinoe</i>	1	C	NYMPHALIDAE	<i>Bebearia sophus</i>	1C
	NYMPHALIDAE	<i>Acraea alciope</i>	1	C	NYMPHALIDAE	<i>Bebearia tentyrus</i>	1C
	NYMPHALIDAE	<i>Acraea aurivillii</i>	1	C	NYMPHALIDAE	<i>Bebearia zonara</i>	1C
	NYMPHALIDAE	<i>Acraea bonasia</i>	1	C	NYMPHALIDAE	<i>Bicyclus abnormis</i>	1C
	NYMPHALIDAE	<i>Acraea circeis</i>	1	C	NYMPHALIDAE	<i>Bicyclus auricruda</i>	1P
	NYMPHALIDAE	<i>Acraea egina</i>	1	C	NYMPHALIDAE	<i>Bicyclus dekeyseri</i>	1C

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	NYMPHALIDAE	<i>Bicyclus dorothea</i>	1	C	NYMPHALIDAE	<i>Charaxes porthos</i>	1C
	NYMPHALIDAE	<i>Bicyclus ephorus</i>	1	C	NYMPHALIDAE	<i>Charaxes protoclea</i>	1C
LC	NYMPHALIDAE	<i>Bicyclus evadne</i>	1	C	NYMPHALIDAE	<i>Charaxes smaragdalis</i>	1C
	NYMPHALIDAE	<i>Bicyclus funebris</i>	1;2	C	NYMPHALIDAE	<i>Charaxes subornatus</i>	1C
	NYMPHALIDAE	<i>Bicyclus ignobilis</i>	1	C	NYMPHALIDAE	<i>Charaxes tiridates</i>	1C
	NYMPHALIDAE	<i>Bicyclus istaris</i>	1	C	NYMPHALIDAE	<i>Charaxes varanes</i>	1C
	NYMPHALIDAE	<i>Bicyclus madetes</i>	1	C	NYMPHALIDAE	<i>Charaxes virilis</i>	1C
	NYMPHALIDAE	<i>Bicyclus maesseni</i>	1	C	NYMPHALIDAE	<i>Charaxes zelica</i>	1C
	NYMPHALIDAE	<i>Bicyclus mandanes</i>	1	C	NYMPHALIDAE	<i>Charaxes zingha</i>	1C
LC	NYMPHALIDAE	<i>Bicyclus martius</i>	1	C	NYMPHALIDAE	<i>Cymothoe 'sangaris'</i>	1C
	NYMPHALIDAE	<i>Bicyclus nobilis</i>	1	C	LC NYMPHALIDAE	<i>Cymothoe caenis</i>	1C
	NYMPHALIDAE	<i>Bicyclus procora</i>	1	C	NYMPHALIDAE	<i>Cymothoe coccinata</i>	1C
	NYMPHALIDAE	<i>Bicyclus safitza</i>	1;2	P	NYMPHALIDAE	<i>Cymothoe egesta</i>	1;3C
	NYMPHALIDAE	<i>Bicyclus sambulos</i>	1	C	NYMPHALIDAE	<i>Cymothoe fumana</i>	1C
	NYMPHALIDAE	<i>Bicyclus sandace</i>	1	C	NYMPHALIDAE	<i>Cymothoe herminia</i>	1C
	NYMPHALIDAE	<i>Bicyclus sangmelinae</i>	1	C	NYMPHALIDAE	<i>Cymothoe jodutta</i>	1C
	NYMPHALIDAE	<i>Bicyclus taenias</i>	1	C	NYMPHALIDAE	<i>Cymothoe lurida</i>	1C
	NYMPHALIDAE	<i>Bicyclus trilophus</i>	1	C	NYMPHALIDAE	<i>Cymothoe mabillei</i>	1;2C
	NYMPHALIDAE	<i>Bicyclus uniformis</i>	1	C	LC NYMPHALIDAE	<i>Cymothoe weymeri</i>	1C
	NYMPHALIDAE	<i>Bicyclus vulgaris</i>	1	C	NYMPHALIDAE	<i>Cynandra opis</i>	1C
	NYMPHALIDAE	<i>Bicyclus xeneas</i>	1	C	NYMPHALIDAE	<i>Cyrestis camillus</i>	1C
	NYMPHALIDAE	<i>Bicyclus zinebi</i>	1	C	NYMPHALIDAE	<i>Danaus chrysippus</i>	1C
	NYMPHALIDAE	<i>Byblia anvatarata</i>	1	C	NYMPHALIDAE	<i>Elymniopsis bammakoo</i>	1C
	NYMPHALIDAE	<i>Catacroptera cloanthe</i>	1	P	NYMPHALIDAE	<i>Euphaedra ceres</i>	1C
	NYMPHALIDAE	<i>Catuna angustatum</i>	1	C	NYMPHALIDAE	<i>Euphaedra crockeri</i>	1C
	NYMPHALIDAE	<i>Catuna crithea</i>	1	C	NYMPHALIDAE	<i>Euphaedra cyparissa</i>	1C
LC	NYMPHALIDAE	<i>Catuna oberthueri</i>	1	C	NYMPHALIDAE	<i>Euphaedra diffusa</i>	1C
	NYMPHALIDAE	<i>Charaxes achaemenes</i>	1	C	NYMPHALIDAE	<i>Euphaedra edwardsii</i>	1C
	NYMPHALIDAE	<i>Charaxes ameliae</i>	1	C	NYMPHALIDAE	<i>Euphaedra eleus</i>	1C
	NYMPHALIDAE	<i>Charaxes anticlea</i>	1	C	LC NYMPHALIDAE	<i>Euphaedra eupalus</i>	1C
	NYMPHALIDAE	<i>Charaxes bipunctatus</i>	1	C	NYMPHALIDAE	<i>Euphaedra eusemoides</i>	1C
LC	NYMPHALIDAE	<i>Charaxes bocqueti</i>	1	C	NYMPHALIDAE	<i>Euphaedra francina</i>	1C
	NYMPHALIDAE	<i>Charaxes boueti</i>	1	C	NYMPHALIDAE	<i>Euphaedra gausape</i>	1C
	NYMPHALIDAE	<i>Charaxes brutus</i>	1	C	NYMPHALIDAE	<i>Euphaedra harpalyce</i>	1C
LC	NYMPHALIDAE	<i>Charaxes candiope</i>	1	C	NYMPHALIDAE	<i>Euphaedra hebes</i>	1C
	NYMPHALIDAE	<i>Charaxes castor</i>	1	C	NYMPHALIDAE	<i>Euphaedra ignota</i>	1C
	NYMPHALIDAE	<i>Charaxes cedreatis</i>	1	C	NYMPHALIDAE	<i>Euphaedra inanum</i>	1C
	NYMPHALIDAE	<i>Charaxes cynthia</i>	1	C	NYMPHALIDAE	<i>Euphaedra janetta</i>	1C
	NYMPHALIDAE	<i>Charaxes doubledayi</i>	1	C	NYMPHALIDAE	<i>Euphaedra laboureaana</i>	1C
	NYMPHALIDAE	<i>Charaxes epijasius</i>	1	C	NYMPHALIDAE	<i>Euphaedra mariaechristinae</i>	1C
	NYMPHALIDAE	<i>Charaxes etesipe</i>	1	C	NYMPHALIDAE	<i>Euphaedra medon</i>	1C
LC	NYMPHALIDAE	<i>Charaxes etheocles</i>	1	C	LC NYMPHALIDAE	<i>Euphaedra modesta</i>	1C
	NYMPHALIDAE	<i>Charaxes eupale</i>	1	C	NYMPHALIDAE	<i>Euphaedra perseis</i>	1C
	NYMPHALIDAE	<i>Charaxes fournierae</i>	1;3	C	NYMPHALIDAE	<i>Euphaedra phaethusa</i>	1C
	NYMPHALIDAE	<i>Charaxes fournierae</i>	1;3	C	NYMPHALIDAE	<i>Euphaedra sarcoptera</i>	1;4C
	NYMPHALIDAE	<i>Charaxes fulvescens</i>	1	C	LC NYMPHALIDAE	<i>Euphaedra splendens</i>	1C
	NYMPHALIDAE	<i>Charaxes hildebrandti</i>	1	C	LC NYMPHALIDAE	<i>Euphaedra themis</i>	1C
LC	NYMPHALIDAE	<i>Charaxes imperialis</i>	1	C	NYMPHALIDAE	<i>Euphaedra xypete</i>	1C
	NYMPHALIDAE	<i>Charaxes lucretius</i>	1	C	NYMPHALIDAE	<i>Euphaedra zampa</i>	1;2C
	NYMPHALIDAE	<i>Charaxes lycurgus</i>	1	C	NYMPHALIDAE	<i>Euptera crowleyi</i>	1P
	NYMPHALIDAE	<i>Charaxes mycerina</i>	1	C	NYMPHALIDAE	<i>Euptera elabontas</i>	1P
	NYMPHALIDAE	<i>Charaxes nichetes</i>	1	C	NYMPHALIDAE	<i>Euptera zowa</i>	1P
	NYMPHALIDAE	<i>Charaxes nobilis</i>	1	C	NYMPHALIDAE	<i>Euriphene amicia</i>	1C
	NYMPHALIDAE	<i>Charaxes numenes</i>	1	C	NYMPHALIDAE	<i>Euriphene ampedusa</i>	1C
	NYMPHALIDAE	<i>Charaxes paphianus</i>	1	C	NYMPHALIDAE	<i>Euriphene aridatha</i>	1C
	NYMPHALIDAE	<i>Charaxes petersi</i>	1	C	NYMPHALIDAE	<i>Euriphene atossa</i>	1C
	NYMPHALIDAE	<i>Charaxes plantroui</i>	1	C	NYMPHALIDAE	<i>Euriphene barombina</i>	1C
	NYMPHALIDAE	<i>Charaxes pleione</i>	1	C	NYMPHALIDAE	<i>Euriphene coerulea</i>	1C
	NYMPHALIDAE	<i>Charaxes pollux</i>	1	C	NYMPHALIDAE	<i>Euriphene doriclea</i>	1C

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	NYMPHALIDAE	<i>Euriphene gambiae</i>	1;2	C		NYMPHALIDAE	<i>Palla ussheri</i>	1C
	NYMPHALIDAE	<i>Euriphene incerta</i>	1	C	LC	NYMPHALIDAE	<i>Palla violinitens</i>	1C
	NYMPHALIDAE	<i>Euriphene simplex</i>	1	C		NYMPHALIDAE	<i>Phalanta eurytis</i>	1C
	NYMPHALIDAE	<i>Euryphura chalcis</i>	1	C		NYMPHALIDAE	<i>Phalanta phalantha</i>	1C
	NYMPHALIDAE	<i>Euryphura togoensis</i>	1	C		NYMPHALIDAE	<i>Precis antilope</i>	1P
	NYMPHALIDAE	<i>Eurytela dryope</i>	1	C	LC	NYMPHALIDAE	<i>Precis octavia</i>	1P
	NYMPHALIDAE	<i>Eurytela hiarbas</i>	1	C		NYMPHALIDAE	<i>Precis pelarga</i>	1;2C
	NYMPHALIDAE	<i>Euxanthe eurinome</i>	1	C		NYMPHALIDAE	<i>Precis sinuata</i>	1C
	NYMPHALIDAE	<i>Gnophodes betsimena</i>	1	C		NYMPHALIDAE	<i>Protogoniomorpha cytora</i>	1C
	NYMPHALIDAE	<i>Gnophodes chelys</i>	1	C		NYMPHALIDAE	<i>Protogoniomorpha parhassus</i>	1C
	NYMPHALIDAE	<i>Hallelesis halyma</i>	1	C		NYMPHALIDAE	<i>Pseudacraea boisduvalii</i>	1P
	NYMPHALIDAE	<i>Hamanumida daedalus</i>	1	C		NYMPHALIDAE	<i>Pseudacraea eurytus</i>	1;2C
LC	NYMPHALIDAE	<i>Harma theobene</i>	1	C		NYMPHALIDAE	<i>Pseudacraea hostilia</i>	1C
	NYMPHALIDAE	<i>Brakefieldia peitho</i>	1	C		NYMPHALIDAE	<i>Pseudacraea lucretia</i>	1C
	NYMPHALIDAE	<i>Hypolimnias anthedon</i>	1;2	C		NYMPHALIDAE	<i>Pseudacraea semire</i>	1C
	NYMPHALIDAE	<i>Hypolimnias dinarcha</i>	1	C		NYMPHALIDAE	<i>Pseudacraea warburgi</i>	1C
	NYMPHALIDAE	<i>Hypolimnias misippus</i>	1	C		NYMPHALIDAE	<i>Pseudathyma falcata</i>	1C
	NYMPHALIDAE	<i>Hypolimnias salmacia</i>	1	C		NYMPHALIDAE	<i>Pseudathyma sibyllina</i>	1C
	NYMPHALIDAE	<i>Junonia cymodoce</i>	1	C		NYMPHALIDAE	<i>Pseudoneptis bugandensis</i>	1;2C
LC	NYMPHALIDAE	<i>Junonia oenone</i>	1	C		NYMPHALIDAE	<i>Salamis cacta</i>	1C
	NYMPHALIDAE	<i>Junonia sophia</i>	1	C		NYMPHALIDAE	<i>Sevenia boisduvali</i>	1C
	NYMPHALIDAE	<i>Junonia stygia</i>	1	C	LC	NYMPHALIDAE	<i>Sevenia occidentaliu</i>	1C
	NYMPHALIDAE	<i>Junonia terea</i>	1	C		NYMPHALIDAE	<i>Tirumala petiverana</i>	1C
	NYMPHALIDAE	<i>Junonia westermanni</i>	1	C		NYMPHALIDAE	<i>Vanessa cardui</i>	1P
	NYMPHALIDAE	<i>Kallimoides rumia</i>	1	C		NYMPHALIDAE	<i>Vanessula milca</i>	1C
	NYMPHALIDAE	<i>Lachnoptera anticlia</i>	1	C		NYMPHALIDAE	<i>Ypthima doleta</i>	1C
	NYMPHALIDAE	<i>Libythea labdaca</i>	1	C		NYMPHALIDAE	<i>Ypthima vuattouxi</i>	1P
	NYMPHALIDAE	<i>Melanitis leda</i>	1	C		PAPILIONIDAE	<i>Graphium angolanus</i>	1C
	NYMPHALIDAE	<i>Melanitis libya</i>	1	P		PAPILIONIDAE	<i>Graphium antheus</i>	1C
	NYMPHALIDAE	<i>Mesoxantha ethosea</i>	1	C		PAPILIONIDAE	<i>Graphium illyris</i>	1C
	NYMPHALIDAE	<i>Nepidopsis ophione</i>	1	C		PAPILIONIDAE	<i>Graphium latreillianus</i>	1C
	NYMPHALIDAE	<i>Nepidopsis agouale</i>	1	C		PAPILIONIDAE	<i>Graphium leonidas</i>	1C
	NYMPHALIDAE	<i>Neptis alta</i>	1	C		PAPILIONIDAE	<i>Graphium liponesco</i>	1P
	NYMPHALIDAE	<i>Neptis conspicua</i>	1	P		PAPILIONIDAE	<i>Graphium policenes</i>	1C
	NYMPHALIDAE	<i>Neptis continuata</i>	1	P		PAPILIONIDAE	<i>Graphium rileyi</i>	1C
	NYMPHALIDAE	<i>Neptis kiriakoffi</i>	1	P		PAPILIONIDAE	<i>Graphium tynderaeus</i>	1C
	NYMPHALIDAE	<i>Neptis loma</i>	1	C	DD	PAPILIONIDAE	<i>Papilio antimachus</i>	1C
LC	NYMPHALIDAE	<i>Neptis melicerta</i>	1	C		PAPILIONIDAE	<i>Papilio chrapkowskoides</i>	1C
	NYMPHALIDAE	<i>Neptis metanira</i>	1	P		PAPILIONIDAE	<i>Papilio cynorta</i>	1;2C
	NYMPHALIDAE	<i>Neptis metella</i>	1	C	LC	PAPILIONIDAE	<i>Papilio cyproeofila</i>	1C
	NYMPHALIDAE	<i>Neptis mixophyes</i>	1	C		PAPILIONIDAE	<i>Papilio dardanus</i>	1C
	NYMPHALIDAE	<i>Neptis morosa</i>	1	P		PAPILIONIDAE	<i>Papilio demodocus</i>	1C
	NYMPHALIDAE	<i>Neptis najo</i>	1	P		PAPILIONIDAE	<i>Papilio horribilis</i>	1C
	NYMPHALIDAE	<i>Neptis nebroides</i>	1	C		PAPILIONIDAE	<i>Papilio menestheus</i>	1C
	NYMPHALIDAE	<i>Neptis nemetes</i>	1	C		PAPILIONIDAE	<i>Papilio nireus</i>	1C
	NYMPHALIDAE	<i>Neptis nicobule</i>	1	C		PAPILIONIDAE	<i>Papilio phorcas</i>	1C
	NYMPHALIDAE	<i>Neptis nicomedes</i>	1	C		PAPILIONIDAE	<i>Papilio sosia</i>	1C
LC	NYMPHALIDAE	<i>Neptis nicoteles</i>	1	C		PAPILIONIDAE	<i>Papilio zenobia</i>	1C
	NYMPHALIDAE	<i>Neptis nysiades</i>	1	C		PIERIDAE	<i>Appias epaphia</i>	1P
	NYMPHALIDAE	<i>Neptis paula</i>	1	C		PIERIDAE	<i>Appias phaola</i>	1C
	NYMPHALIDAE	<i>Neptis puella</i>	1	C		PIERIDAE	<i>Appias sabina</i>	1C
LC	NYMPHALIDAE	<i>Neptis quintilla</i>	1	C		PIERIDAE	<i>Appias sylvia</i>	1C
	NYMPHALIDAE	<i>Neptis seeldrayersi</i>	1	C	LC	PIERIDAE	<i>Belenois calypso</i>	1C
	NYMPHALIDAE	<i>Neptis serena</i>	1	C		PIERIDAE	<i>Belenois creona</i>	1P
	NYMPHALIDAE	<i>Neptis strigata</i>	1	C		PIERIDAE	<i>Belenois hedyle</i>	1C
	NYMPHALIDAE	<i>Neptis trigonophora</i>	1	C		PIERIDAE	<i>Belenois theora</i>	1C
	NYMPHALIDAE	<i>Neptis troundi</i>	1	C		PIERIDAE	<i>Catopsilia florella</i>	1C
	NYMPHALIDAE	<i>Palla decius</i>	1	C		PIERIDAE	<i>Colotis euippe</i>	1C
	NYMPHALIDAE	<i>Palla publius</i>	1	C	LC	PIERIDAE	<i>Eurema brigitta</i>	1C

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PIERIDAE	<i>Eurema desjardinsii</i>	1	P	PIERIDAE	<i>Mylothris chloris</i>	1C
PIERIDAE	<i>Eurema floricola</i>	1	C	PIERIDAE	<i>Mylothris dimidiata</i>	1C
PIERIDAE	<i>Eurema hapale</i>	1	P	PIERIDAE	<i>Mylothris jaopura</i>	1C
PIERIDAE	<i>Eurema hecabe</i>	1	C	PIERIDAE	<i>Mylothris poppea</i>	1C
PIERIDAE	<i>Eurema senegalensis</i>	1;2	C	PIERIDAE	<i>Mylothris rhodope</i>	1C
PIERIDAE	<i>Leptosia alcesta</i>	1	C	PIERIDAE	<i>Mylothris schumanni</i>	1C
PIERIDAE	<i>Leptosia hybrida</i>	1	C	PIERIDAE	<i>Mylothris spica</i>	1C
PIERIDAE	<i>Leptosia marginea</i>	1	C	PIERIDAE	<i>Nepheronia argia</i>	1C
PIERIDAE	<i>Leptosia medusa</i>	1	C	PIERIDAE	<i>Nepheronia pharis</i>	1C
PIERIDAE	<i>Leptosia wigginsi</i>	1	P	PIERIDAE	<i>Nepheronia thalassina</i>	1C
VU PIERIDAE	<i>Mylothris atewa</i>	1	C			

Appendix 5 – Damselflies and dragonflies

Damselflies and dragonflies of Atewa Range Forest Reserve, taken largely from Dijkstra (2007) – ref 1

Group	Family	Name	Common name	Source
Damselfly	Coenagrionidae	<i>Africallagma vaginale</i>	Forest Bluet	ref 1
Damselfly	Coenagrionidae	<i>Agriocnemis maclachlani</i>	Forest Wisp	ref 1
Damselfly	Coenagrionidae	<i>Agriocnemis zerafica</i>	Sahel Wisp	ref 1
Damselfly	Coenagrionidae	<i>Azuragrion vansomereni</i>	Tiny Azuret	ref 1
Damselfly	Coenagrionidae	<i>Ceriagrion corallinum</i>	Green-fronted Waxtail	ref 1
Damselfly	Coenagrionidae	<i>Ceriagrion glabrum</i>	Common Waxtail	ref 1
Damselfly	Coenagrionidae	<i>Ceriagrion rubellocerinum</i>	Red-tipped Waxtail	ref 1
Damselfly	Protoneuridae	<i>Chlorocnemis elongata</i>		ref 1
Damselfly	Protoneuridae	<i>Chlorocnemis flavipennis</i>		ref 1
Damselfly	Protoneuridae	<i>Chlorocnemis subnodalis</i>		ref 1
Damselfly	Chlorocyphidae	<i>Chlorocypha curta</i>	Blue-tipped Jewel	ref 1
Damselfly	Chlorocyphidae	<i>Chlorocypha dispar</i>	Little Red Jewel	ref 1
Damselfly	Chlorocyphidae	<i>Chlorocypha luminosa</i>	Orange Jewel	ref 1
Damselfly	Chlorocyphidae	<i>Chlorocypha radix</i>	Western Red-tipped Jewel	ref 1
Damselfly	Chlorocyphidae	<i>Chlorocypha selysi</i>	Blue-faced Jewel	ref 1
Damselfly	Protoneuridae	<i>Elattonaura balli</i>		ref 1
Damselfly	Protoneuridae	<i>Elattonaura nigra</i>	Black Threadtail	ref 1
Damselfly	Lestidae	<i>Lestes dissimulans</i>	Cryptic Spreadwing	ref 1; GBIF 62
Damselfly	Platycnemidae	<i>Mesocnemis singularis</i>	Common Riverjack	ref 1
Damselfly	Calopterygidae	<i>Phaon camerunensis</i>	Forest Flashwing	ref 1
Damselfly	Calopterygidae	<i>Phaon iridipennis</i>	Glistening Demoiselle	ref 1
Damselfly	Platycnemidae	<i>Platycnemis guttifera</i>		ref 1
Damselfly	Platycnemidae	<i>Platycnemis sikassoensis</i>		ref 1
Damselfly	Protoneuridae	<i>Prodasineura villiersi</i>	White-fronted Threadtail	ref 1
Damselfly	Coenagrionidae	<i>Pseudagrion glaucoideum</i>	Cryptic Sprite	ref 1
Damselfly	Coenagrionidae	<i>Pseudagrion hamoni</i>	Swarthy Sprite	ref 1
Damselfly	Coenagrionidae	<i>Pseudagrion kersteni</i>	Powder-faced Sprite	ref 1
Damselfly	Coenagrionidae	<i>Pseudagrion melanicterum</i>	Farmbush Sprite	ref 1
Damselfly	Coenagrionidae	<i>Pseudagrion sjoestedti</i>	Variable Sprite	ref 1
Damselfly	Calopterygidae	<i>Sapho bicolor</i>	Spring Bluewing	ref 1
Damselfly	Calopterygidae	<i>Sapho ciliata</i>	Western Bluewing	ref 1
Damselfly	Calopterygidae	<i>Umma cincta</i>	Broad-winged Sparklewing	ref 1
Dragonfly	Libellulidae	<i>Acisoma panorpoides</i>	Grizzled Pintail	ref 1
Dragonfly	Libellulidae	<i>Aethriamanta rezia</i>	Pygmy Basker	ref 1
Dragonfly	Aeshnidae	<i>Anax imperator</i>	Blue Emperor	ref 1
Dragonfly	Aeshnidae	<i>Anax tristis</i>	Black Emperor	ref 1
Dragonfly	Libellulidae	<i>Atoconeura luxata</i>	Western Highlander	ref 1
Dragonfly	Libellulidae	<i>Crocothemis sanguinolenta</i>	Little Scarlet	ref 1
Dragonfly	Libellulidae	<i>Cyanothemis simpsoni</i>	Bluebolt	ref 1
Dragonfly	Gomphidae	<i>Diastatomma gamblesi</i>		ref 1
Dragonfly	Libellulidae	<i>Diplacodes lefebvrei</i>	Black Percher	ref 1
Dragonfly	Libellulidae	<i>Eleuthemis buettikoferi</i>	Sunlight Firebelly	ref 1
Dragonfly	Libellulidae	<i>Eleuthemis umbrina</i>	Shadow Firebelly	ref 2; GBIF 37
Dragonfly	Gomphidae	<i>Gomphidia gamblesi</i>		ref 1
Dragonfly	Aeshnidae	<i>Gynacantha bullata</i>	Black-kneed Duskhawker	ref 1
Dragonfly	Libellulidae	<i>Hadrothemis camarensis</i>	Saddled Jungleskimmer	ref 1
Dragonfly	Libellulidae	<i>Hadrothemis coacta</i>	Robust Jungleskimmer	ref 1
Dragonfly	Libellulidae	<i>Hadrothemis infesta</i>	Slender Jungleskimmer	ref 1
Dragonfly	Gomphidae	<i>Ictinogomphus fraseri</i>		ref 1
Dragonfly	Libellulidae	<i>Micromacromia zygoptera</i>	Small Micmac	ref 1
Dragonfly	Libellulidae	<i>Neodythemis klingi</i>		ref 1
Dragonfly	Libellulidae	<i>Nesciothemis minor</i>	Small Blacktail	ref 1
Dragonfly	Libellulidae	<i>Nesciothemis pujoli</i>	Western Blacktail	ref 1

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Dragonfly	Libellulidae	<i>Notiothemis robertsi</i>	Western Forestwatcher	ref 1
Dragonfly	Libellulidae	<i>Olpogastra lugubris</i>	Bottletail	ref 1
Dragonfly	Libellulidae	<i>Orthetrum agaricum</i>	Western Mushroom Skimmer	ref 2; GBIF 37
Dragonfly	Libellulidae	<i>Orthetrum austeni</i>	Giant Skimmer	ref 1
Dragonfly	Libellulidae	<i>Orthetrum julia</i>	Julia Skimmer	ref 1
Dragonfly	Libellulidae	<i>Orthetrum microstigma</i>	Farmbush Skimmer	ref 1
Dragonfly	Libellulidae	<i>Orthetrum saegeri</i>		ref 1
Dragonfly	Libellulidae	<i>Orthetrum stemmale</i>	Bold Skimmer	ref 1
Dragonfly	Libellulidae	<i>Palpopleura lucia</i>	Lucia Widow	ref 1
Dragonfly	Libellulidae	<i>Palpopleura portia</i>	Portia Widow	ref 1
Dragonfly	Libellulidae	<i>Pantala flavescens</i>	Wandering Glider	ref 1
Dragonfly	Gomphidae	<i>Paragomphus serrulatus</i>		ref 1
Dragonfly	Gomphidae	<i>Phyllogomphus moundi</i>		ref 1
Dragonfly	Corduliidae	<i>Phyllomacromia legrandi</i>		ref 1
Dragonfly	Libellulidae	<i>Tetrathemis camerunensis</i>	Forest Elf	ref 1
Dragonfly	Libellulidae	<i>Thermochoria equivocata</i>	Dash-winged Piedface	ref 1
Dragonfly	Libellulidae	<i>Tholymis tillarga</i>	Old World Twister	ref 1
Dragonfly	Libellulidae	<i>Tramea basilaris</i>	Keyhole Glider	ref 1
Dragonfly	Libellulidae	<i>Tramea limbata</i>	Ferruginous Glider	ref 1
Dragonfly	Libellulidae	<i>Trithemis arteriosa</i>	Red-veined Dropwing	ref 1; GBIF 34
Dragonfly	Libellulidae	<i>Trithetrum navasi</i>	Fiery Darter	ref 1
Dragonfly	Libellulidae	<i>Urothemis edwardsii</i>	Blue Basker	ref 1
Dragonfly	Libellulidae	<i>Zygonyx chrysobaphes</i>		ref 1
Dragonfly	Libellulidae	<i>Zygonyx flavicosta</i>	Ensign Cascader	ref 1
Dragonfly	Libellulidae	<i>Zygonyx torridus</i>	Ringed Cascader	ref 1

ref 1 = Dijkstra (2007)

ref 2 = Dijkstra et al. 2015, *Odontologica*, 44, 447–678;

GBIF 34 = iNaturalist

GBIF 37 = Plazi.org, Rijksmuseum voor Natuurlijke Historie (RMNH)

Appendix 6 – Reptiles

Reptile list of Atewa Range Forest Reserve mostly extracted from GBIF.

RL ¹	Family	Species	Source
Lizards			
na	Agamidae	<i>Agama agama</i> *	University of Washington, Burke Museum; iNaturalist
LC	Chamaeleonidae	<i>Chamaeleo gracilis</i> *	California Academy of Sciences, Herpetology
LC	Chamaeleonidae	<i>Chamaeleo senegalensis</i>	University of Kansas Biodiversity Institute, Herpetology
na	Gekkonidae	<i>Hemidactylus ansorgii</i>	University of Washington, Burke Museum
na	Gekkonidae	<i>Hemidactylus brookii</i> *	University of Kansas Biodiversity Institute, Herpetology
na	Gekkonidae	<i>Hemidactylus muriceus</i>	University of Washington, Burke Museum
LC	Scincidae	<i>Cophoscincopus similans</i>	University of Washington, Burke Museum
na	Scincidae	<i>Trachylepis affinis</i>	University of Washington, Burke Museum
na	Scincidae	<i>Trachylepis albilabris</i>	University of Washington, Burke Museum
Snakes			
LC	Colubridae	<i>Dipsadoboa brevirostris</i> *	California Academy of Sciences, Herpetology
na	Colubridae	<i>Dipsadoboa unicolor</i>	University of Washington, Burke Museum
na	Colubridae	<i>Dipsadoboa viridis</i>	University of Washington, Burke Museum
na	Colubridae	<i>Hapsidophrys lineatus</i>	University of Washington, Burke Museum
na	Colubridae	<i>Philothamnus heterodermus</i>	University of Washington, Burke Museum
LC	Lamprophiidae	<i>Gonionotophis klingi</i>	University of Washington, Burke Museum
LC	Lamprophiidae	<i>Lycophidion nigromaculatum</i>	University of Washington, Burke Museum
LC	Viperidae	<i>Atheris chlorechis</i>	University of Washington, Burke Museum
Crocodiles			
VU	Crocodylidae	<i>Osteolaemus tetraspis</i>	J. Lindsell unpublished (photo)

* recorded in surrounding landscape

¹ na = not assessed

Appendix 7 – Amphibians

Amphibian list of Atewa Range Forest Reserve.

RL	Family	Species	Source
LC	Arthroleptidae	<i>Arthroleptis poecilonotus</i>	ref 2
NT	Arthroleptidae	<i>Astylosternus laticephalus</i>	ref 2
NT	Arthroleptidae	<i>Leptopelis macrotis</i>	ref 2
NT	Arthroleptidae	<i>Leptopelis occidentalis</i>	ref 2
LC	Arthroleptidae	<i>Leptopelis spiritusnoctis</i>	ref 1; ref 2
NT	Bufo	<i>Amietophrynus togoensis</i>	ref 1; ref 2
LC	Bufo	<i>Sclerophrys maculata</i>	ref 1
LC	Caeciliidae	<i>Geotrypetes seraphini</i>	ref 1
LC	Dicroglossidae	<i>Hoplobatrachus occipitalis</i>	ref 1
NT	Hyperoliidae	<i>Acanthixalus sonjae</i>	ref 1
LC	Hyperoliidae	<i>Afrixalus dorsalis</i>	ref 2
LC	Hyperoliidae	<i>Afrixalus nigeriensis</i>	ref 1; ref 2
NT	Hyperoliidae	<i>Afrixalus vibekensis</i>	ref 1
LC	Hyperoliidae	<i>Hyperolius baumanni</i>	ref 1
EN	Hyperoliidae	<i>Hyperolius bobirensis</i>	ref 1; ref 2
LC	Hyperoliidae	<i>Hyperolius concolor</i>	ref 2
LC	Hyperoliidae	<i>Hyperolius fusciventris</i>	ref 1; ref 2
LC	Hyperoliidae	<i>Hyperolius guttulatus</i>	ref 1
LC	Hyperoliidae	<i>Hyperolius nitidulus</i>	University of Kansas Biodiversity Institute, Herpetology collection
LC	Hyperoliidae	<i>Hyperolius picturatus</i>	ref 1; ref 2
LC	Hyperoliidae	<i>Hyperolius sylvaticus</i>	ref 1; ref 2
VU	Hyperoliidae	<i>Kassina arboricola</i>	ref 1; ref 2
LC	Hyperoliidae	<i>Phlyctimantis boulengeri</i>	ref 2
CR	Petropedetidae	<i>Conraua derooi</i>	ref 1; ref 2
[CR] ¹	Phrynobatrachidae	<i>Phrynobatrachus afiagirago</i>	ref 4
NT	Phrynobatrachidae	<i>Phrynobatrachus alleni</i>	ref 1; ref 2
LC	Phrynobatrachidae	<i>Phrynobatrachus calcaratus</i>	ref 1; ref 2; ref 3
EN	Phrynobatrachidae	<i>Phrynobatrachus ghanensis</i>	ref 1
LC	Phrynobatrachidae	<i>Phrynobatrachus gutturosus</i>	ref 1
LC	Phrynobatrachidae	<i>Phrynobatrachus latifrons</i>	ref 1; ref 2; ref 3
LC	Phrynobatrachidae	<i>Phrynobatrachus plicatus</i>	ref 1; ref 2
LC	Phrynobatrachidae	<i>Phrynobatrachus tokba</i>	ref 1; ref 2
LC	Pipidae	<i>Xenopus tropicalis</i>	ref 1; ref 2
LC	Ptychadenidae	<i>Ptychadena aequiplicata</i> ²	ref 1; ref 2
LC	Ptychadenidae	<i>Ptychadena bibroni</i>	ref 1
LC	Ptychadenidae	<i>Ptychadena longirostris</i>	ref 1
LC	Ranidae	<i>Amnirana albolabris</i>	ref 2
EN	Ranidae	<i>Amnirana occidentalis</i>	C. Ofori Boateng (pers obs)
LC	Ranidae	<i>Aubria occidentalis</i>	ref 1; ref 2
LC	Rhacophoridae	<i>Chiromantis rufescens</i>	ref ref 1; ref 2

¹ Not formally assessed but likely to meet this criteria.

² Specimens from Atewa Forest are in fact two novel species (Rödel unpubl. data).

ref 1 = Kouamé *et al.* (2007)

ref 2 = University of Washington, Burke Museum

ref 3 = Natural History Museum, London, Zoology collection

ref 4 = Ofori-Boateng *et al.* (2018)

Appendix 8 – Mammals

Mammal list for Atewa Range Forest Reserve.

RL ¹	Family	Species	Common name	Source
SORICOMORPHA (Shrews)				
LC	Soricidae	<i>Crocidura cf. juvenetae</i>	Jouvenet's Shrew	J. Decher (ZFMK)
LC	Soricidae	<i>Crocidura olivieri</i>	African Giant Shrew	J. Decher (ZFMK)
LC	Soricidae	<i>Crocidura douceti</i>	Doucet's Shrew	J. Decher (ZFMK)
CR	Soricidae	<i>Crocidura cf. wimmeri</i>	Wimmer's Shrew	J. Decher (ZFMK)
NT	Soricidae	<i>Crocidura grandiceps</i>	Large-headed Shrew	1; ZFMK
RODENTIA (Rodents)				
LC	Anomaluridae	<i>Anomalurus beecrofti</i>	Beecroft's Flying Squirrel	1
DD	Anomaluridae	<i>Anomalurus pelii</i>	Pel's Flying Squirrel	1
LC	Hystricidae	<i>Atherurus africanus</i>	Brush-tailed Porcupine	1; ARI unpubl.
LC	Muridae	<i>Hylomyscus alleni</i>	Allen's Wood Mouse	Grubb et al 1998
LC	Muridae	<i>Lemniscomys striatus</i>	Striped Grass Rat	Grubb et al 1998
LC	Muridae	<i>Lophuromys sikapusi</i>	Rusty-bellied Rat	Grubb et al 1998; J. Decher (ZFMK)
LC	Muridae	<i>Malacomys edwardsi</i>	Edward's Swamp Rat	1; Ebenzer Kofi Badi (KNUST); J. Decher (ZFMK)
LC	Muridae	<i>Mastomys natalensis</i>	Multimammate Mouse	Ebenzer Kofi Badi (KNUST)
LC	Muridae	<i>Praomys daltoni</i>	Dalton's Soft-furred Mouse	Ebenzer Kofi Badi (KNUST)
LC	Muridae	<i>Praomys tullbergi</i>	Tullberg's Soft-furred Mouse	1; Abedi-Lartey and Guba-Kpelle (2005) cited in 1; J. Decher (ZFMK)
LC	Muridae	<i>Uranomys ruddi</i>	Rudd's Brush-furred Mouse	Grubb et al 1998
LC	Nesomyidae	<i>Cricetomys emini</i>	Forest Giant Pouched Rat	Abedi-Lartey and Guba-Kpelle (2005) cited in 1
LC	Nesomyidae	<i>Cricetomys gambianus</i>	Giant Pouched Rat	1; ARI unpubl.
LC	Sciuridae	<i>Epixerus ebii</i>	Western Palm squirrel	1
LC	Sciuridae	<i>Funisciurus pyrropus</i>	Fire-footed Rope Squirrel	ARI unpubl.
DD	Sciuridae	<i>Heliosciurus punctatus</i>	Small Sun Squirrel	Grubb et al 1998
LC	Sciuridae	<i>Heliosciurus rufobrachium</i>	Red-footed Squirrel	1; ARI unpubl.
LC	Sciuridae	<i>Paraxerus poensis</i>	Green Squirrel	Grubb et al 1998
DD	Sciuridae	<i>Protoxerus aubinnii</i>	Slender-tailed Squirrel	ARI unpubl.
LC	Sciuridae	<i>Protoxerus stangeri</i>	African Giant Squirrel	1
LC	Sciuridae	<i>Xerus erythropus</i>	Striped Ground Squirrel	1; Grubb et al 1998
LC	Thryonomyidae	<i>Thryonomys swinderianus</i>	Marsh Cane-Rat	1; ARI unpubl.; Abedi-Lartey and Guba-Kpelle (2005) cited in 1
CHIROPTERA (Bats)				
LC	Hipposideridae	<i>Hipposideros beatus</i>	Benito Leaf-nosed Bat	1
LC	Hipposideridae	<i>Hipposideros cyclops</i>	Cyclops Leaf-nosed Bat	1
LC	Hipposideridae	<i>Hipposideros ruber</i>	Noack's Leaf-nosed Bat	1
LC	Hipposideridae	<i>Macronycteris gigas</i>	Giant leaf-nosed Bat	1
LC	Nycteridae	<i>Nycteris macrotis</i>	Large-eared Slit-faced Bat	Nankasi & Okorasi (USNM)
LC	Nycteridae	<i>Nycteris grandis</i>	Large Slit-faced Bat	1
NT	Pteropodidae	<i>Eidolon helvum</i>	Straw-coloured Fruit Bat	Abedi-Lartey and Guba-Kpelle (2005) cited in 1
LC	Pteropodidae	<i>Epomophorus gambianus</i>	Gambian Epauletted Fruit Bat	Grubb et al 1998
LC	Pteropodidae	<i>Hypsignathus monstrosus</i>	Hammer-headed Fruit Bat	1; Abedi-Lartey and Guba-Kpelle (2005) cited in 1
LC	Pteropodidae	<i>Megaloglossus azagnyi</i>	Western Woermann's Fruit Bat	1; Grubb et al 1998; J. Decher (ZFMK)
LC	Pteropodidae	<i>Myonycteris leptodon</i>	Sierra Leone Collared Fruit Bat	1
LC	Pteropodidae	<i>Nanonycteris veldkampii</i>	Dwarf Epauletted Fruit Bat	Grubb et al 1998
LC	Pteropodidae	<i>Scotonycteris zenkeri</i>	Zenker's Fruit Bat	1; Grubb et al 1998
LC	Rhinolophidae	<i>Rhinolophus alcyone</i>	Halcyon Horseshoe Bat	1
	Vespertilionidae	<i>Hypsugo crassulus [bellieri]</i>		1
	Vespertilionidae	<i>Pipistrellus aff. Grandidieri</i>	Grandidier's Pipistrelle	1

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PHOLIDOTA (Pangolins)				
VU	Manidae	<i>Phataginus tetradactyla</i>	Long-tailed Pangolin	1; ARI unpubl.
VU	Manidae	<i>Phataginus tricuspis</i>	White-bellied Pangolin	ARI unpubl.
PRIMATES				
EN	Cercopithecidae	<i>Cercocebus lunulatus</i>	White-naped Mangabey	ARI unpubl.
LC	Cercopithecidae	<i>Cercopithecus lowei</i>	Lowe's Monkey	1; ARI unpubl.
LC	Cercopithecidae	<i>Cercopithecus petaurista</i>	Eastern Spot-nosed Monkey	1
EN	Cercopithecidae	<i>Cercopithecus roloway</i>	Roloway Monkey	Grubb et al 1998
VU	Cercopithecidae	<i>Colobus vellerosus</i>	White-thighed Colobus	1
NT	Cercopithecidae	<i>Procolobus verus</i>	Olive Colobus	1
LC	Galagidae	<i>Galagoides demidoff</i>	Demidoff's Galago	1; Grubb et al 1998
LC	Lorisidae	<i>Perodicticus potto</i>	Potto	1
CARNIVORA (Carnivores)				
VU	Felidae	<i>Caracal aurata</i>	African Golden Cat	Grubb et al 1998
LC	Herpestidae	<i>Atilax paludinosus</i>	Marsh Mongoose	1; ARI unpubl.
LC	Herpestidae	<i>Crossarchus obscurus</i>	Cusimanse	1; ARI unpubl.
LC	Herpestidae	<i>Herpestes sanguineus</i>	Slender Mongoose	1; ARI unpubl.
LC	Nandiniidae	<i>Nandinia binotata</i>	African Palm Civet	1
LC	Viverridae	<i>Civettictis civetta</i>	African Civet	1; ARI unpubl.
LC	Viverridae	<i>Genetta genetta</i>	Common Genet	1
HYRACOIDEA (Hyraxes)				
LC	Hyracoidea	<i>Dendrohyrax dorsalis</i>	Tree Hyrax	1; Grubb et al 1998
ARTIODACTYLA (Even-toed Ungulates)				
NT	Bovidae	<i>Cephalophus dorsalis</i>	Bay Duiker	1
LC	Bovidae	<i>Cephalophus niger</i>	Black Duiker	1; ARI unpubl.
NT	Bovidae	<i>Cephalophus silvicultor</i>	Yellow-backed Duiker	1
LC	Bovidae	<i>Neotragus pygmaeus</i>	Royal Antelope	1; ARI unpubl.
LC	Bovidae	<i>Philantomba maxwelli</i>	Maxwell's duiker	1; ARI unpubl.
LC	Bovidae	<i>Tragelaphus scriptus</i>	Bushbuck	1; ARI unpubl.
LC	Suidae	<i>Potamochoerus porcus</i>	Red River Hog	1

1 Weber & Fahr 2007

Mammals recorded in areas neighbouring Atewa Forest according to Grubb *et al.* (1998).

RL ¹	Family	Species	Common name	Source
SORICOMORPHA (Shrews)				
LC	Soricidae	<i>Crocidura olivieri</i>	African Giant Shrew	Grubb et al 1998
LC	Soricidae	<i>Crocidura poensis</i>	Fraser's Shrew	Grubb et al 1998
RODENTIA (Rodents)				
LC	Anomaluridae	<i>Anomalurus derbianus</i>	Lord Derby's Anomalure	Grubb et al 1998
LC	Anomaluridae	<i>Idiurus macrotis</i>	Pygmy Flying Squirrel	Grubb et al 1998
LC	Gliridae	<i>Graphiurus lorraineus</i>	Lorraine's African Dormouse	Grubb et al 1998
LC	Gliridae	<i>Graphiurus nagtglasii</i>	Nagtglas's African Dormouse	Grubb et al 1998
LC	Hystricidae	<i>Hystrix cristata</i>	Crested Porcupine	Grubb et al 1998
LC	Muridae	<i>Dephomys defua</i>	Defua Rat	Grubb et al 1998
LC	Muridae	<i>Gerbilliscus kempfi</i>	Kemp's Gerbil	Grubb et al 1998
LC	Muridae	<i>Hybomys trivirgatus</i>	Temminck's Striped Mouse	Grubb et al 1998
EN	Muridae	<i>Hylomyscus baeri</i>	Baer's Wood Mouse	Grubb et al 1998
LC	Muridae	<i>Mus musculooides</i>	Pygmy Mouse	Grubb et al 1998
LC	Muridae	<i>Malacomys cansdalei</i>	Cansdale's Swamp Rat	Grubb et al 1998
LC	Muridae	<i>Mastomys natalensis</i>	Natal Multimammate Mouse	Ebenzer Kofi Badi (KNUST); Grubb et al 1998
CHIROPTERA (Bats)				
LC	Emballonuridae	<i>Saccolaimus peli</i>	Pel's Pouched Bat	Grubb et al 1998
LC	Emballonuridae	<i>Taphozous mauritanus</i>	Mauritian Tomb Bat	Grubb et al 1998
LC	Hipposideridae	<i>Hipposideros fuliginosus</i>	Sooty Leaf-nosed Bat	Grubb et al 1998
NT	Hipposideridae	<i>Hipposideros jonesi</i>	Jones's Leaf-nosed Bat	Grubb et al 1998
LC	Nycteridae	<i>Nycteris arge</i>	Bates' Slit-faced Bat	Grubb et al 1998

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LC	Nycteridae	<i>Nycteris hispida</i>	Hairy Slit-faced Bat	Grubb et al 1998
LC	Nycteridae	<i>Nycteris intermedia</i>	Intermediate Slit-faced Bat	Grubb et al 1998
LC	Nycteridae	<i>Nycteris nana</i>	Dwarf Slit-faced Bat	Grubb et al 1998
LC	Pteropodidae	<i>Epomops buettikoferi</i>	Buettikofer's Epauletted Fruit Bat	Grubb et al 1998
LC	Pteropodidae	<i>Epomops franqueti</i>	Franquet's Epauletted Fruit Bat	Grubb et al 1998
LC	Pteropodidae	<i>Lissonycteris angolensis</i>	Angolan Long-haired Fruit Bat	Grubb et al 1998
LC	Pteropodidae	<i>Micropteropus pusillus</i>	Lesser Epauletted Fruit Bat	Grubb et al 1998
NT	Pteropodidae	<i>Scotonycteris ophiodon</i>	Pohle's Fruit Bat	Grubb et al 1998
LC	Rhinolophidae	<i>Rhinolophus landeri</i>	Lander's Horseshoe Bat	Grubb et al 1998
LC	Vespertilionidae	<i>Glauconycteris poensis</i>	Abo Butterfly Bats	Grubb et al 1998
LC	Vespertilionidae	<i>Kerivoula lanosa</i>	Lesser Woolly Bat	Grubb et al 1998
LC	Vespertilionidae	<i>Mimetillus moloneyi</i>	Moloney's Flat-headed Bat	Grubb et al 1998
NT	Vespertilionidae	<i>Neoromicia brunnea</i>	Dark-brown Pipistrelle	Grubb et al 1998
LC	Vespertilionidae	<i>Neoromicia capensis</i>	Cape Pipistrelle	Grubb et al 1998
LC	Vespertilionidae	<i>Neoromicia tenuipinnis</i>	White-winged Pipistrelle	Grubb et al 1998
LC	Vespertilionidae	<i>Pipistrellus nanulus</i>	Tiny Pipistrelle	Grubb et al 1998
LC	Vespertilionidae	<i>Scotophilus leucogaster</i>	White-bellied House Bat	Grubb et al 1998
LC	Vespertilionidae	<i>Scotophilus nigrita</i>	Giant House Bat	Grubb et al 1998

Appendix 9 – Birds

Bird list for Atewa Range Forest Reserve (some familiar alternative common names shown in brackets).

RL	L	A3 Family	Name	Common name	Source	
1	2	Numididae	<i>Guttera verreauxi</i>	Western Crested Guineafowl	1; 2	
1	1	Phasianidae	<i>Pternistis achantensis</i>	Ahanta Francolin	2; IBAT;G10	
1	1	Phasianidae	<i>Peliperdix lathamii</i>	Forest Francolin	1; ARI; 2; IBAT;G10	
1	1	Columbidae	<i>Columba iriditorques</i>	Western Bronze-naped Pigeon	1; 2; G10; G11	
1		Columbidae	<i>Turtur afer</i>	Blue-spotted Wood-dove	2; G10; G11	
1	2	Columbidae	<i>Turtur tympanistria</i>	Tambourine Dove	1; ARI; 2; G10; G11	
1	1	Columbidae	<i>Turtur brehmeri</i>	Blue-headed Wood-dove	1; ARI; 2; IBAT;G10; G11	
1	2	Columbidae	<i>Treron calvus</i>	African Green-pigeon	1; 2; G10; G11	
1	1	Caprimulgidae	<i>Veles binotatus</i>	Brown Nightjar	1; 2	
1	2	Apodidae	<i>Telacanthura ussheri</i>	Mottled Spinetail	G10	
1	1	Apodidae	<i>Telacanthura melanopygia</i>	Black Spinetail	2	
1	1	Apodidae	<i>Rhaphidura sabini</i>	Sabine's Spinetail	1; 2; G10	
1	1	Apodidae	<i>Neafrapus cassini</i>	Cassin's Spinetail	1; 2; G11	
1		Apodidae	<i>Cypsiurus parvus</i>	African Palm-swift	1; G10; G11	
1	1	Apodidae	<i>Apus batesi</i>	Bates's Swift	2; G10	
1		Apodidae	<i>Apus affinis</i>	Little Swift	A. Riley in 2; G10	
1		Apodidae	<i>Apus apus</i>	Common Swift	2; G10	
1	1	Cuculidae	<i>Centropus leucogaster</i>	Black-throated Coucal	1; 2; IBAT;G10; G11	
1		Cuculidae	<i>Centropus monachus</i>	Blue-headed Coucal	1; A. Riley in 2; G10; G34	
1	2	Cuculidae	<i>Ceuthmochares aereus</i>	Chattering Yellowbill	1; 2; G10; G11	
1	2	Cuculidae	<i>Clamator levaillantii</i>	Levaillant's Cuckoo	A. Hester in 2; G10	
1	2	Cuculidae	<i>Pachycoccyx audeberti</i>	Thick-billed Cuckoo	C. Goblet in 2; G10	
1	1	Cuculidae	<i>Chrysococcyx flavigularis</i>	Yellow-throated Cuckoo	2; G10	
1		Cuculidae	<i>Chrysococcyx klaas</i>	Klaas's Cuckoo	1; 2; G10; G11; G34	
1	2	Cuculidae	<i>Chrysococcyx cupreus</i>	African Emerald Cuckoo	1; 2; G10; G33; G34	
1		Cuculidae	<i>Chrysococcyx caprius</i>	Diederik Cuckoo	2; G10	
1	1	Cuculidae	<i>Cercococcyx olivinus</i>	Olive Long-tailed Cuckoo	2; IBAT;G10	
1	2	Cuculidae	<i>Cuculus solitarius</i>	Red-chested Cuckoo	2; G10	
1	2	Cuculidae	<i>Cuculus clamosus</i>	Black Cuckoo	1; 2; G10; G11	
1	2	Helionithidae	<i>Podica senegalensis</i>	African Finfoot	2	
1	1	Rallidae	<i>Sarothrura pulchra</i>	White-spotted Flufftail	1; 2; IBAT;G10	
1	1	Rallidae	<i>Himantornis haematopus</i>	Nkulengu Rail	1; ARI; 2; IBAT	
1	2	Musophagidae	<i>Corythaeola cristata</i>	Great Blue Turaco	1; 2	
1	1	Musophagidae	<i>Tauraco macrorhynchus</i>	Yellow-billed Turaco	1; 2; IBAT;G10; G11	
1	1	Threskiornithidae	<i>Bostrychia rara</i>	Spot-breasted Ibis	W. Apraku in 2	
1	1	Ardeidae	<i>Tigriornis leucolopha</i>	White-crested Tiger-heron	2	
1	1	Strigidae	<i>Glaucidium tephronotum</i>	Red-chested Owlet	2; G10	
1	2	Strigidae	<i>Strix woodfordii</i>	African Wood-owl	1; 2	
1	1	Strigidae	<i>Bubo poensis</i>	Fraser's Eagle-owl	2; G10	
1	1	Strigidae	<i>Bubo leucostictus</i>	Akun Eagle-owl	2	
1	2	Accipitridae	<i>Pernis apivorus</i>	European Honey-buzzard	D. Hoddinot in 2; G10	
1	2	Accipitridae	<i>Aviceda cuculoides</i>	African Cuckoo-hawk	R. Ntakor in 2; G10	
1	2	Accipitridae	<i>Polyboroides typus</i>	African Harrier-hawk	1; 2; G10; G11	
1		Accipitridae	<i>Gypohierax angolensis</i>	Palm-nut Vulture	1; 2; G10	
1	1	Accipitridae	<i>Dryotriorchis spectabilis</i>	Congo Serpent-eagle	1; 2; G10	
1		Accipitridae	<i>Circaetus cinereus</i>	Brown Snake-eagle	2	
CR	1	Accipitridae	<i>Necrosyrtes monachus</i>	Hooded Vulture	2; G10	
3	2	Accipitridae	<i>Macheiramphus alcinus</i>	Bat Hawk	G10	
NT	1	2	Accipitridae	<i>Stephanoaetus coronatus</i>	Crowned Eagle	1; 2; G10
1	1	Accipitridae	<i>Aquila africana</i>	Cassin's Hawk-eagle	1; 2; G10	

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1	2	Accipitridae	<i>Hieraetus ayresii</i>	Ayres's Hawk-eagle	D. Hoddinot in 2; G10
1	2	Accipitridae	<i>Accipiter toussenelii</i>	Red-chested Goshawk (African)	1; 2; G10; G34
1	1	Accipitridae	<i>Accipiter erythropus</i>	Red-legged Sparrowhawk (Red-thighed)	Shackelford in 2; G10
1	2	Accipitridae	<i>Accipiter melanoleucus</i>	Black Sparrowhawk	L. Fishpool in 2; G10
1	1	Accipitridae	<i>Urotriorchis macrourus</i>	Long-tailed Hawk	1; 2; G10
1		Accipitridae	<i>Milvus migrans</i>	Black Kite	2; G10
1		Accipitridae	<i>Buteo auguralis</i>	Red-necked Buzzard	A. Riley in 2; G10; G11
1	2	Trogonidae	<i>Apaloderma narina</i>	Narina Trogon	1; 2; G10
1	1	Bucerotidae	<i>Lophoceros semifasciatus</i>	West African Pied Hornbill	1; 2; G10; G11; G34
1	1	Bucerotidae	<i>Lophoceros camurus</i>	Dwarf Hornbill (Red-billed Dwarf)	1; R. Demey in 2; G10
1	1	Bucerotidae	<i>Horizocerus albocristatus</i>	Western Long-tailed Hornbill (White-crested)	1; 2; G10
1	1	Bucerotidae	<i>Horizocerus hartlaubi</i>	Western Little Hornbill (Black Dwarf)	2; G10
VU	1	Bucerotidae	<i>Ceratogymna elata</i>	Yellow-casqued Hornbill	Bull ABC (in 2)
VU	1	Bucerotidae	<i>Bycanistes cylindricus</i>	Brown-cheeked Hornbill	1; 2; G10; G11
	1	Bucerotidae	<i>Bycanistes fistulator</i>	Western Piping Hornbill	2
	1	Phoeniculidae	<i>Phoeniculus bollei</i>	White-headed Woodhoopoe	1; 2; G10
	1	Phoeniculidae	<i>Rhinopomastus castaneiceps</i>	Forest Scimitarbill	2; G10; G11
	1	Meropidae	<i>Merops albicollis</i>	White-throated Bee-eater	2; G10; G11; G34
	1	Meropidae	<i>Merops malimbicus</i>	Rosy Bee-eater	2; G10
	1	Meropidae	<i>Merops gularis</i>	Black Bee-eater	2; IBAT;G10; G11
NT	1	Meropidae	<i>Merops mentalis</i>	Blue-moustached Bee-eater	1; 2; G10; G11
	1	Coraciidae	<i>Eurystomus gularis</i>	Blue-throated Roller	1; 2; G10; G11; G34
	1	Coraciidae	<i>Eurystomus glaucurus</i>	Broad-billed Roller	G10
	1	Alcedinidae	<i>Ispidina lecontei</i>	African Dwarf-kingfisher	1; R. Demey in 2; G10
	1	Alcedinidae	<i>Ispidina picta</i>	African Pygmy-kingfisher	1; 2; G10
	1	Alcedinidae	<i>Corythornis leucogaster</i>	White-bellied Kingfisher	1; 2; IBAT
	1	Alcedinidae	<i>Alcedo quadribrachys</i>	Shining-blue Kingfisher	2
	1	Alcedinidae	<i>Halcyon badia</i>	Chocolate-backed Kingfisher	1; 2; IBAT;G10; G34
	1	Alcedinidae	<i>Halcyon malimbica</i>	Blue-breasted Kingfisher	1; 2; G10
	1	Alcedinidae	<i>Halcyon senegalensis</i>	Woodland Kingfisher	2; G10
	1	Lybiidae	<i>Buccanodon duchaillui</i>	Yellow-spotted Barbet	1; 2; G10; G11
	1	Lybiidae	<i>Gymnobucco peli</i>	Bristle-nosed Barbet	2; IBAT;G10; G11
	1	Lybiidae	<i>Gymnobucco calvus</i>	Naked-faced Barbet	1; 2; G10; G11; G34
	1	Lybiidae	<i>Pogoniulus scolopaceus</i>	Speckled Tinkerbird	1; 2; G10; G11; G34
	1	Lybiidae	<i>Pogoniulus atroflavus</i>	Red-rumped Tinkerbird	1; 2; IBAT;G10; G11
	1	Lybiidae	<i>Pogoniulus subsulphureus</i>	Yellow-throated Tinkerbird	1; 2; IBAT;G10; G11
	1	Lybiidae	<i>Tricholaema hirsuta</i>	Hairy-breasted Barbet	1; 2; IBAT;G10
	1	Lybiidae	<i>Lybius vieilloti</i>	Vieillot's Barbet	G10
	1	Lybiidae	<i>Trachylaemus goffinii</i>	Western Yellow-billed Barbet	1; 2; G10
	1	Indicatoridae	<i>Prodotiscus insignis</i>	Cassin's Honeybird	1; A. Riley in 2; G10; G11
NT	1	Indicatoridae	<i>Melignomon eisentrauti</i>	Yellow-footed Honeyguide	2; 3; G10
	1	Indicatoridae	<i>Indicator willcocksii</i>	Willcocks's Honeyguide	1; 2; IBAT;G10
	1	Indicatoridae	<i>Indicator exilis</i>	Least Honeyguide	C. Goblet in 2; G10
	1	Indicatoridae	<i>Indicator minor</i>	Lesser Honeyguide (incl. Thick-billed)	1; 2; G10
	1	Indicatoridae	<i>Indicator maculatus</i>	Spotted Honeyguide	2; IBAT;G10
	1	Picidae	<i>Campethera maculosa</i>	Little Green Woodpecker	2; G10
	1	Picidae	<i>Campethera nivosa</i>	Buff-spotted Woodpecker	1; 2; G10; G11
	1	Picidae	<i>Campethera caroli</i>	Brown-eared Woodpecker	1; 2; IBAT;G10; G11
	1	Picidae	<i>Dendropicos lugubris</i>	Melancholy Woodpecker (Gabon)	1; 2; G10; G11; G34
	1	Picidae	<i>Dendropicos pyrrhogaster</i>	Fire-bellied Woodpecker	1; 2; G10; G11
	1	Falconidae	<i>Falco ardosiaceus</i>	Grey Kestrel	G10; G11
	1	Falconidae	<i>Falco cuvierii</i>	African Hobby	2; G10
EN	1	Psittacidae	<i>Psittacus erithacus</i>	Grey Parrot	E Krabbe in 2; IBAT;G10
	1	Psittacidae	<i>Poicephalus gularis</i>	Red-fronted Parrot	1; 2; G10; G11

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	1	1	Psittacidae	<i>Agapornis swindernianus</i>	Black-collared Lovebird	2
	1	1	Calyptomenidae	<i>Smithornis rufolateralis</i>	Rufous-sided Broadbill	1; 2; IBAT;G10
	1	1	Oriolidae	<i>Oriolus brachyrynchus</i>	Western Black-headed Oriole	1; 2; IBAT;G10; G11
	1	1	Oriolidae	<i>Oriolus nigripennis</i>	Black-winged Oriole	1; 2; G10
	1	2	Campephagidae	<i>Campephaga quisqualis</i>	Purple-throated Cuckooshrike	1; 2; G10
VU	1	1	Campephagidae	<i>Lobotos lobatus</i>	Western Wattled Cuckooshrike	J. Lindsell
	1	1	Campephagidae	<i>Cyanograucalus azureus</i>	Blue Cuckooshrike	1; 2; G10
	1	1	Vangidae	<i>Prionops caniceps</i>	Red-billed Helmetshrike	1; 2; G10
	1	1	Vangidae	<i>Megabyas flammulatus</i>	African Shrike-flycatcher	1; 2; G10
	1	2	Vangidae	<i>Bias musicus</i>	Black-and-white Shrike-flycatcher	2; G10; G11
	1	1	Platysteiridae	<i>Batis occulta</i>	West African Batis (Bioko)	1; 2; G10; G11
	1	1	Platysteiridae	<i>Dyaphorophya hormophora</i>	West African Wattle-eye (Chestnut)	1; 2; G10; G11
	1	1	Platysteiridae	<i>Dyaphorophya blissetti</i>	Red-cheeked Wattle-eye	1; 2; IBAT;G10
	1	1	Malaconotidae	<i>Malaconotus cruentus</i>	Fiery-breasted Bush-shrike	1; 2; IBAT
	1	1	Malaconotidae	<i>Dryoscopus sabinus</i>	Sabine's Puffback	1; 2; IBAT;G10
	1	2	Malaconotidae	<i>Chlorophoneus multicolor</i>	Many-coloured Bush-shrike	1; 2; G10
	1	1	Malaconotidae	<i>Laniarius leucorhynchus</i>	Lowland Sooty Boubou	1; 2
	1	1	Dicruridae	<i>Dicrurus atripennis</i>	Shining Drongo	1; 2; G10; G11
	1	2	Dicruridae	<i>Dicrurus modestus</i>	Velvet-mantled Drongo	1; 2; G10; G11
	1	1	Monarchidae	<i>Trochocercus nitens</i>	Western Crested-flycatcher (Blue-headed Crested)	1; 2; IBAT;G10
	1	2	Monarchidae	<i>Terpsiphone viridis</i>	African Paradise-flycatcher	2; G10
	1	1	Monarchidae	<i>Terpsiphone rufiventer</i>	Red-bellied Paradise-flycatcher	1; 2; IBAT;G10; G11
	1		Corvidae	<i>Corvus albus</i>	Pied Crow	2; G10; G11
	1	1	Hylotiidae	<i>Hyliota violacea</i>	Violet-backed Hyliota	1; 2; G10
	1	1	Stenostiridae	<i>Elminia nigromitrata</i>	Dusky Crested-flycatcher	1; 2; IBAT;G10
	1	1	Paridae	<i>Melaniparus funereus</i>	Dusky Tit	1; 2; G10
	1	1	Remizidae	<i>Anthoscopus flavifrons</i>	Forest Penduline-tit	A. Hester in 2; G10
	1	1	Nicatoridae	<i>Nicator chloris</i>	Western Nicator	1; 2; IBAT;G10; G11
	1	1	Macrosphenidae	<i>Sylvietta virens</i>	Green Crombec	1; 2; IBAT;G10; G11
	1	1	Macrosphenidae	<i>Sylvietta denti</i>	Lemon-bellied Crombec	1; 2; G10; G11
	1	1	Macrosphenidae	<i>Macrosphenus kempis</i>	Kemp's Longbill	1; 2; IBAT;G10
	1	1	Macrosphenidae	<i>Macrosphenus concolor</i>	Grey Longbill	1; 2; IBAT;G10; G11
	1	1	Cisticolidae	<i>Eremomela badiceps</i>	Rufous-crowned Eremomela	1; 2; IBAT;G10; G11
	1	1	Cisticolidae	<i>Apalis nigricaps</i>	Black-capped Apalis	1; 2; IBAT;G10; G11; G33
	1	1	Cisticolidae	<i>Apalis sharpii</i>	Sharpe's Apalis	1; 2; IBAT;G10
	1	2	Cisticolidae	<i>Camaroptera brachyura</i>	Bleating Camaroptera (Grey-backed)	1; 2; G10
	1	1	Cisticolidae	<i>Camaroptera supercilialis</i>	Yellow-browed Camaroptera	1; 2; IBAT;G10; G11
	1	1	Cisticolidae	<i>Camaroptera chloronota</i>	Olive-green Camaroptera	1; 2; G10
	1		Cisticolidae	<i>Prinia subflava</i>	Tawny-flanked Prinia	2; G10
	1		Acrocephalidae	<i>Hippolais polyglotta</i>	Melodious Warbler	2; G10
	1	1	Hirundinidae	<i>Psaldoprocne nitens</i>	Square-tailed Saw-wing	1; 2; G10; G11
	1	1	Hirundinidae	<i>Psaldoprocne obscura</i>	Fanti Saw-wing	4; G10
	1		Hirundinidae	<i>Delichon urbicum</i>	Northern House Martin	A. Hester in 2
	1		Hirundinidae	<i>Cecropis abyssinica</i>	Lesser Striped Swallow	1; G10
	1		Hirundinidae	<i>Hirundo rustica</i>	Barn Swallow	2; G10; G11; G18
	1	2	Pycnonotidae	<i>Stelgidillas gracilirostris</i>	Slender-billed Greenbul	1; 2; G10
	1	1	Pycnonotidae	<i>Calyptocichla serinus</i>	Golden Greenbul	1; 2; G10; G33
	1	1	Pycnonotidae	<i>Bleda syndactylus</i>	Red-tailed Bristlebill	1; 2; IBAT;G10
NT	1	1	Pycnonotidae	<i>Bleda eximius</i>	Green-tailed Bristlebill	1; 2; IBAT;G10
	1	1	Pycnonotidae	<i>Bleda canicapillus</i>	Grey-headed Bristlebill	1; 2; IBAT;G10; G33
	1	1	Pycnonotidae	<i>Thescelocichla leucopleura</i>	Swamp Palm Bulbul	1; 2; G10
	1	1	Pycnonotidae	<i>Baeopogon indicator</i>	Honeyguide Greenbul	1; 2; IBAT;G10; G11
	1	1	Pycnonotidae	<i>Chlorocichla simplex</i>	Simple Greenbul	1; 2; IBAT;G10; G11

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	1	2	Pycnonotidae	<i>Eurillas latirostris</i>	Yellow-whiskered Greenbul	1; 2; G10; G11
	1	2	Pycnonotidae	<i>Eurillas virens</i>	Little Greenbul	1; 2; G10; G11
	1	1	Pycnonotidae	<i>Eurillas gracilis</i>	Grey Greenbul (Little Grey)	1; 2; IBAT;G10; G11
	1	1	Pycnonotidae	<i>Eurillas ansorgei</i>	Ansorge's Greenbul	1; 2; G10
	1	1	Pycnonotidae	<i>Eurillas curvirostris</i>	Plain Greenbul (Cameroon Sombre)	1; 2; IBAT;G10
	1	1	Pycnonotidae	<i>Criniger barbatus</i>	Western Bearded Greenbul	1; 2; IBAT;G10; G11
	1	1	Pycnonotidae	<i>Criniger calurus</i>	Red-tailed Greenbul	1; 2; IBAT;G10; G11
VU	1	1	Pycnonotidae	<i>Criniger olivaceus</i>	Yellow-bearded Greenbul	1; 2; IBAT;G10
	1	1	Pycnonotidae	<i>Phyllastrephus icterinus</i>	Icterine Greenbul	1; 2; G10; G11
	1	1	Pycnonotidae	<i>Phyllastrephus albigularis</i>	White-throated Greenbul	2; G10
	1	1	Pycnonotidae	<i>Phyllastrephus baumanni</i>	Baumann's Greenbul	2; G10
	3	1	Pycnonotidae	<i>Pyrrhurus scandens</i>	Leaf-love	Hoddinot 2011; G10
	1		Pycnonotidae	<i>Pycnonotus barbatus</i>	Common Bulbul	1; 2; G10; G11
	1	2	Phylloscopidae	<i>Phylloscopus sibilatrix</i>	Wood Warbler	2; G10; G11
	1	2	Phylloscopidae	<i>Phylloscopus trochilus</i>	Willow Warbler	2; G10
	1	1	Scotocercidae	<i>Erythrocercus mccallii</i>	Chestnut-capped Flycatcher	1; 2; G10; G11
	1	1	Scotocercidae	<i>Hylia prasina</i>	Green Hylia	1; 2; IBAT;G10; G11
	1	1	Scotocercidae	<i>Pholidornis rushiae</i>	Tit-hylia	1; 2; G10; G34
	1	2	Zosteropidae	<i>Zosterops senegalensis</i>	African Yellow White-eye	1; 2; G10; G11
	1	1	Pellorneidae	<i>Illadopsis fulvescens</i>	Brown Illadopsis	1; 2; IBAT;G10
	1	2	Pellorneidae	<i>Illadopsis rufipennis</i>	Pale-breasted Illadopsis	1; 2; G10
	1	1	Pellorneidae	<i>Illadopsis cleaveri</i>	Black-capped Illadopsis	1; ARI; 2; IBAT;G10
	1	1	Pellorneidae	<i>Illadopsis puveli</i>	Puvel's Illadopsis	4; G10
NT	1	1	Pellorneidae	<i>Illadopsis rufescens</i>	Rufous-winged Illadopsis	1; 2; IBAT;G10
	1	1	Sturnidae	<i>Onychognathus fulgidus</i>	Chestnut-winged Starling	1; 2; G10; G11
	1	1	Sturnidae	<i>Poeoptera lugubris</i>	Narrow-tailed Starling	1; 2; G10; G11
	1	2	Sturnidae	<i>Lamprotornis splendidus</i>	Splendid Starling	2; G10; G11
NT	1	1	Sturnidae	<i>Hyllopsar cupreocauda</i>	Copper-tailed Starling	1; 2; IBAT;G10; G11
	1	1	Turdidae	<i>Neocossyphus poensis</i>	White-tailed Ant-thrush	1; 2; IBAT;G10; G11
	1	1	Turdidae	<i>Stizorhina finschi</i>	Finsch's Flycatcher-thrush	1; 2; G10; G11; G34
	1	1	Turdidae	<i>Geokichla princei</i>	Grey Ground-thrush	2
	1		Turdidae	<i>Turdus pelios</i>	African Thrush	G10; G11
	1	1	Muscicapidae	<i>Alethe diademata</i>	White-tailed Alethe	1; 2; G10; G34
	1	1	Muscicapidae	<i>Tychaemon leucosticta</i>	Forest Scrub-robin	A. Hester in 2; ARI; G10
	1	1	Muscicapidae	<i>Muscicapa epulata</i>	Little Grey Flycatcher	1; 2; G10
	1	1	Muscicapidae	<i>Bradornis ussheri</i>	Ussher's Flycatcher	1; 2
	1	1	Muscicapidae	<i>Bradornis comitatus</i>	Dusky-blue Flycatcher	2
	1	1	Muscicapidae	<i>Fraseria ocreata</i>	African Forest-flycatcher (Fraser's Forest)	1; 2; G10; G11
	1	2	Muscicapidae	<i>Fraseria plumbea</i>	Grey Tit-flycatcher	1; A. Hester in 2
	1	1	Muscicapidae	<i>Fraseria griseigularis</i>	Grey-throated Tit-flycatcher	1; 2; IBAT
	1	2	Muscicapidae	<i>Fraseria caerulescens</i>	Ashy Flycatcher	K. Valentine in 2
	1	1	Muscicapidae	<i>Fraseria olivascens</i>	Olivaceous Flycatcher	2
VU	1	1	Muscicapidae	<i>Melaenornis annamarulae</i>	Nimba Flycatcher	1; A. Hester in 2; G10
	1	2	Muscicapidae	<i>Chamaetylas poliocephala</i>	Brown-chested Alethe	1; 2; G10
	1	1	Muscicapidae	<i>Cossypha cyanocamptor</i>	Blue-shouldered Robin-chat	K. Valentine in 2
	1	1	Muscicapidae	<i>Stiphornis erythrothorax</i>	Orange-breasted Forest-robin (Forest Robin)	1; 2; G10
	1	1	Muscicapidae	<i>Sheppardia cyornithopsis</i>	Lowland Akalat	1; 2
	1	1	Nectariniidae	<i>Deleornis fraseri</i>	Fraser's Sunbird	1; 2; G10; G11
	1	1	Nectariniidae	<i>Anthreptes seimundi</i>	Little Green Sunbird	1; 2; G10; G11
	1	1	Nectariniidae	<i>Anthreptes rectirostris</i>	Yellow-chinned Sunbird (Green)	1; 2; G10
	1	2	Nectariniidae	<i>Hedydipna collaris</i>	Collared Sunbird	1; 2; G10; G11
	1	1	Nectariniidae	<i>Cyanomitra cyanolaema</i>	Blue-throated Brown Sunbird	1; 2; G10; G11
	1	2	Nectariniidae	<i>Cyanomitra olivacea</i>	Olive Sunbird	1; 2; G10; G11
	1	1	Nectariniidae	<i>Chalcomitra adelberti</i>	Buff-throated Sunbird	1; 2; IBAT;G10

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1	2	Nectariniidae	<i>Cinnyris chloropygius</i>	Olive-bellied Sunbird	1; 2; G10; G11
1	1	Nectariniidae	<i>Cinnyris minullus</i>	Tiny Sunbird	R White in 2; G10; G11
1	1	Nectariniidae	<i>Cinnyris johannae</i>	Johanna's Sunbird	1; 2; G10
1	1	Nectariniidae	<i>Cinnyris superbus</i>	Superb Sunbird	1; 2; IBAT;G10; G11
1	1	Nectariniidae	<i>Cinnyris batesi</i>	Bates's Sunbird	2; G10
1	2	Ploceidae	<i>Amblyospiza albifrons</i>	Thick-billed Weaver	A. Hester in 2; G10; G33
1	2	Ploceidae	<i>Ploceus brachypterus</i>	Olive-naped Weaver (Black-necked)	1; 2; G10; G11
1		Ploceidae	<i>Ploceus cucullatus</i>	Village Weaver	G10; G11
1	2	Ploceidae	<i>Ploceus castaneofuscus</i>	Chestnut-and-black Weaver (Vieillot's Black)	1; 2; G10; G11
1	1	Ploceidae	<i>Ploceus tricolor</i>	Yellow-mantled Weaver	1; 2; G10; G11
1	1	Ploceidae	<i>Ploceus albinucha</i>	Maxwell's Black Weaver	1; 2; G10; G11
1	1	Ploceidae	<i>Ploceus preussi</i>	Preuss's Weaver	1; 2; G10
1	1	Ploceidae	<i>Malimbus scutatus</i>	Red-vented Malimbe	A. Hester in 2; IBAT;G10
1	1	Ploceidae	<i>Malimbus nitens</i>	Blue-billed Malimbe	1; 2; IBAT;G10
1	1	Ploceidae	<i>Malimbus rubricollis</i>	Red-headed Malimbe	1; 2; IBAT;G10; G11
1	1	Ploceidae	<i>Malimbus malimbicus</i>	Crested Malimbe	1; 2; IBAT;G10; G11
1	1	Estrildidae	<i>Spermophaga haematina</i>	Western Bluebill	2; IBAT;G10
1	2	Estrildidae	<i>Pyrenestes ostrinus</i>	Black-bellied Seedcracker	1; Grimes in 2; G10
1	2	Estrildidae	<i>Estrilda melpoda</i>	Orange-cheeked Waxbill	2; G10
1	2	Estrildidae	<i>Mandingoa nitidula</i>	Green Twinspot	A. Hester in 2
1	1	Estrildidae	<i>Nigrita fusconotus</i>	White-breasted Nigrita	2; IBAT;G10; G11
1	1	Estrildidae	<i>Nigrita bicolor</i>	Chestnut-breasted Nigrita	1; 2; IBAT;G10
1	1	Estrildidae	<i>Nigrita luteifrons</i>	Pale-fronted Nigrita	C. Goblet in 2
1	2	Estrildidae	<i>Nigrita canicapillus</i>	Grey-headed Nigrita	1; 2; G10; G11
NT	1	Estrildidae	<i>Parmoptila rubrifrons</i>	Red-fronted Antpecker	1; 2; G10; G11
	1	Estrildidae	<i>Spermestes cucullata</i>	Bronze Mannikin	2; G10; G11
	1	Estrildidae	<i>Spermestes bicolor</i>	Black-and-white Mannikin	2; G10
	1	Estrildidae	<i>Spermestes fringilloides</i>	Magpie Mannikin	A. Hester in 2; G10

Non forest species reported in eBird lists for Atewa Forest that are within geographic range according to Dowsett-Lemaire and Dowsett (2014), but judged less likely to have been recorded inside the forest reserve.

4		Columbidae	<i>Streptopelia semitorquata</i>	Red-eyed Dove	G10; G11
4		Columbidae	<i>Spilopelia senegalensis</i>	Laughing Dove	G10
4		Caprimulgidae	<i>Caprimulgus climacurus</i>	Long-tailed Nightjar	G10
4		Cuculidae	<i>Centropus senegalensis</i>	Senegal Coucal	G10
4		Cuculidae	<i>Cuculus canorus</i>	Common Cuckoo	G10
4		Musophagidae	<i>Crinifer piscator</i>	Western Plantain-eater	G10
4		Scolopacidae	<i>Tringa ochropus</i>	Green Sandpiper	G10
4		Pandionidae	<i>Pandion haliaetus</i>	Osprey	G62
4		Accipitridae	<i>Elanus caeruleus</i>	Black-winged Kite	G10
4		Accipitridae	<i>Kaupifalco monogrammicus</i>	Lizard Buzzard	G10
4		Meropidae	<i>Merops pusillus</i>	Little Bee-eater	G10; G34
4	2	Lybiidae	<i>Pogoniulus bilineatus</i>	Yellow-rumped Tinkerbird	G10
4		Falconidae	<i>Falco subbuteo</i>	Eurasian Hobby	G10
4		Falconidae	<i>Falco biarmicus</i>	Lanner Falcon	G10
4		Platysteiridae	<i>Platysteira cyanea</i>	Brown-throated Wattle-eye	G10
4		Malaconotidae	<i>Dryoscopus gambensis</i>	Northern Puffback	G10; G11
4		Malaconotidae	<i>Bocagia minuta</i>	Marsh Tchagra	G10
4		Malaconotidae	<i>Tchagra australis</i>	Brown-crowned Tchagra	G10; G34
4		Malaconotidae	<i>Tchagra senegalus</i>	Black-crowned Tchagra	G10
4		Malaconotidae	<i>Laniarius aethiopicus</i>	Tropical Boubou	G10
4		Laniidae	<i>Lanius collaris</i>	Common Fiscal	G10

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4	Cisticolidae	<i>Cisticola erythrops</i>	Red-faced Cisticola	G10
4	Cisticolidae	<i>Cisticola lateralis</i>	Whistling Cisticola	G10
4	Hirundinidae	<i>Petrochelidon preussi</i>	Preuss's Swallow	G10
4	Hirundinidae	<i>Cecropis semirufa</i>	Rufous-chested Swallow	G10; G11
4	Hirundinidae	<i>Hirundo aethiopica</i>	Ethiopian Swallow	G10
4	Hirundinidae	<i>Ptyonoprogne rufigula</i>	Red-throated Rock Martin	G10
4	Sylviidae	<i>Sylvia borin</i>	Garden Warbler	G10
4	Muscicapidae	<i>Muscicapa striata</i>	Spotted Flycatcher	G10
4	Muscicapidae	<i>Ficedula hypoleuca</i>	European Pied Flycatcher	G10
4	Muscicapidae	<i>Saxicola rubetra</i>	Whinchat	G10
4	Nectariniidae	<i>Cinnyris coccinigastrus</i>	Splendid Sunbird	G10
4	Ploceidae	<i>Quelea erythrops</i>	Red-headed Quelea	G10
4	Ploceidae	<i>Euplectes hordeaceus</i>	Black-winged Bishop	G10; G34
4	Ploceidae	<i>Ploceus superciliosus</i>	Compact Weaver	G10
4	Estrildidae	<i>Lagonosticta rufopicta</i>	Bar-breasted Firefinch	G10
4	Estrildidae	<i>Lagonosticta rubricata</i>	African Firefinch	G10
4	Viduidae	<i>Vidua macroura</i>	Pin-tailed Whydah	G10
4	Passeridae	<i>Passer griseus</i>	Northern Grey-headed Sparrow	G10
4	Motacillidae	<i>Anthus trivialis</i>	Tree Pipit	G11
4	Motacillidae	<i>Motacilla flava</i>	Western Yellow Wagtail	G10
4	Motacillidae	<i>Motacilla aguimp</i>	African Pied Wagtail	G10; G11

¹RL: IUCN Red List categories. CR = Critically endangered, EN = Endangered, VU = Vulnerable, NT = Near-threatened, DD = Data Deficient. www.iucnredlist.org accessed 6 March 2018.

²L: location with respect to Forest Reserve boundary as far as can be inferred from the sources. 1= inside the boundary, 2 = within 200 metres of the boundary, 3 = within 500 metres of the boundary, 4 = in the landscape surrounding Atewa. For each species only the lowest location value is reported.

³A3: 1 = Guinea-Congo forest biome restricted species as per Stattersfield *et al.* (1998) and Fishpool and Evans (2001); 2 = forest using species (not biome restricted)

ARI = A Rocha International

1 = Demey & Ossom (2007)

2 = Dowsett-Lemaire & Dowsett (2011)

3 = Van Beirs & Ntakor (2014)

4 = Dowsett-Lemaire & Dowsett (2014)

G10 = eBird

G11 = eBird Australia

G34 = iNaturalist

Appendix 10 – other species

Other species recorded in and around Atewa Forest.

Group	RL	L	Family	Name	Source
Fungi		1		<i>Auricularia polytricha</i>	Ref 110
Fungi		4	Glomerellaceae	<i>Colletotrichum gloesporioides</i>	GBIF 62
Fungi		1		<i>Cookeina speciosa</i>	Ref 110
Fungi		1		<i>Favolus brasiliensis</i>	Ref 110
Fungi		1		<i>Pleurotus tuber regium</i>	Ref 110
Fungi		1		<i>Pycnoporus sanguineus</i>	Ref 110
Fungi		1		<i>Pycnosporus sanguineus</i>	Ref 110
Fungi		1		<i>Termitomyces striatus</i>	Ref 110
Fungi		1		<i>Tremella mesenterica</i>	Ref 110
Fungi		1		<i>Tremella mesenterica</i>	Ref 110
Fungi		1		<i>Volvariella volvacea</i>	Ref 110
Gastropoda		4	Achatinidae	<i>Archachatina degneri</i>	GBIF 34
Arachnida		1	Pholcidae	<i>Anansus atewa</i>	GBIF 42
Arachnida		1	Pholcidae	<i>Pehrforsskalia conopyga</i>	GBIF 42
Arachnida		1	Pholcidae	<i>Pholcus kakum</i>	GBIF 42
Arachnida		1	Pholcidae	<i>Smeringopus cylindrogaster</i>	GBIF 42
Arachnida		1	Pholcidae	<i>Spermophora akwamu</i>	GBIF 42
Arachnida		1	Ricinoididae	<i>Ricinoides atewa</i>	GBIF 27
Coleoptera		4	Cerambycidae	<i>Sternotomis pulchra</i>	GBIF 34
Diptera		4	Tephritidae	<i>Ceratitis ditissima</i>	GBIF 21
Diptera		4	Tephritidae	<i>Trirhithrum dimorphum</i>	GBIF 21
Hemiptera		4	Triozidae	<i>Baeoalitrizus boxi</i>	GBIF 14
Hemiptera		4	Triozidae	<i>Trioza menispermicola</i>	GBIF 14
Hymenoptera		3	Formicidae	<i>Anochetus katonae</i>	GBIF 12; GBIF 13
Hymenoptera		3	Formicidae	<i>Anochetus traegaordhi</i>	GBIF 12; GBIF 13
Hymenoptera		1	Formicidae	<i>Calyptomyrmex kaurus</i>	GBIF 12; GBIF 13
Hymenoptera		1	Formicidae	<i>Calyptomyrmex nummuliticus</i>	GBIF 12; GBIF 13
Hymenoptera		1	Formicidae	<i>Cataulacus moloch</i>	GBIF 13
Hymenoptera		3	Formicidae	<i>Crematogaster africana</i>	GBIF 12; GBIF 13
Hymenoptera		1	Formicidae	<i>Discothyrea mixta</i>	GBIF 13
Hymenoptera		1	Formicidae	<i>Hypoponera dulcis</i>	GBIF 13
Hymenoptera		1	Formicidae	<i>Phrynoponera gabonensis</i>	GBIF 13
Hymenoptera		1	Formicidae	<i>Plectroctena gestroi</i>	GBIF 13
Hymenoptera		3	Formicidae	<i>Pseudolasius ludovici</i>	GBIF 12
Hymenoptera		4	Formicidae	<i>Pyramica minkara</i>	GBIF 12
Hymenoptera		4	Formicidae	<i>Pyramica ninda</i>	GBIF 12
Hymenoptera		3	Formicidae	<i>Pyramica sharra</i>	GBIF 12
Hymenoptera		4	Formicidae	<i>Pyramica sistrura</i>	GBIF 12
Hymenoptera		3	Formicidae	<i>Pyramica tetragnatha</i>	GBIF 12
Hymenoptera		4	Formicidae	<i>Pyramica tukulta</i>	GBIF 12
Hymenoptera		3	Formicidae	<i>Strumigenys ludovici</i>	GBIF 13
Hymenoptera		1	Formicidae	<i>Strumigenys petiolata</i>	GBIF 13
Hymenoptera		3	Formicidae	<i>Strumigenys shaula</i>	GBIF 13
Hymenoptera		1	Formicidae	<i>Tetramorium guineense</i>	GBIF 13
Hymenoptera		1	Formicidae	<i>Tetramorium invictum</i>	GBIF 13
Hymenoptera		1	Formicidae	<i>Tetramorium simillimum</i>	GBIF 13
Hymenoptera		1	Scelionidae	<i>Dyscritobaeus flavus</i>	GBIF 62
Katydid		1	Conocephalidae	<i>Conocephalus carbonariu</i>	ref 7
Katydid		1	Meconematidae	<i>Amyttosa mutillata</i>	ref 7
Katydid		1	Meconematidae	<i>Anepitacta lomana</i>	ref 7
Katydid		1	Mecopodidae	<i>Afromecopoda frontalis</i>	ref 7
Katydid		1	Mecopodidae	<i>Corycoides abruptus</i>	ref 7

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Katydid		1	Phaneropteridae	<i>Arantia angustipennis</i>	ref 7
Katydid		1	Phaneropteridae	<i>Arantia rectifolia</i>	ref 7
Katydid		1	Phaneropteridae	<i>Arantia retinervis</i>	ref 7
Katydid		1	Phaneropteridae	<i>Catoptropteryx capreola</i>	ref 7
Katydid		1	Phaneropteridae	<i>Ducetia fuscopunctata</i>	ref 7
Katydid		1	Phaneropteridae	<i>Eurycorypha mutica</i>	ref 7
Katydid		1	Phaneropteridae	<i>Eurycorypha ornatipes</i>	ref 7
Katydid		1	Phaneropteridae	<i>Goetia galbana</i>	ref 7
Katydid		1	Phaneropteridae	<i>Plangiopsis foraminata</i>	ref 7
Katydid		1	Phaneropteridae	<i>Poreumena lamottei</i>	ref 7
Katydid		1	Phaneropteridae	<i>Preussia lobatipes</i>	ref 7
Katydid		1	Phaneropteridae	<i>Tapiena minor</i>	ref 7
Katydid		1	Pseudophyllidae	<i>Adapantus bardus</i>	ref 7
Katydid		1	Pseudophyllidae	<i>Adapantus nitens</i>	ref 7
Katydid		1	Pseudophyllidae	<i>Adenes obesus</i>	ref 7
Katydid		1	Pseudophyllidae	<i>Batodromeus richardi</i>	ref 7
Katydid		1	Pseudophyllidae	<i>Habrocomes personatus</i>	ref 7
Katydid		1	Pseudophyllidae	<i>Lichenochrus congicus</i>	ref 7
Katydid		1	Pseudophyllidae	<i>Mormotus bardus</i>	ref 7
Katydid		1	Pseudophyllidae	<i>Mormotus obtusatus</i>	ref 7
Katydid		1	Pseudophyllidae	<i>Mustius superbus</i>	ref 7
Katydid		1	Pseudophyllidae	<i>Polyglochis peculiaris</i>	ref 7
Katydid		1	Pseudophyllidae	<i>Stenampyx annulicornis</i>	ref 7
Katydid		1	Pseudophyllidae	<i>Tomias hardus</i>	ref 7
Katydid		1	Pseudophyllidae	<i>Tympanocompus erectistylus</i>	ref 7
Katydid		1	Tettigoniidae	<i>Phaneroptera nana</i>	ref 7
Katydid		1	Tettigoniidae	<i>Weissenbornia praestantissima</i>	ref 7
Katydid		1	Tettigoniidae	<i>Zeuneria melanopeza</i>	ref 7
Lepidoptera		1	Arctiidae	<i>Automolis cinereoguttata</i>	GBIF 15
Lepidoptera		1	Arctiidae	<i>Metarctia didyma</i>	GBIF 15
Lepidoptera		4	Arctiidae	<i>Neophemula vitrina</i>	GBIF 15
Lepidoptera		1	Geometridae	<i>Archichlora devoluta</i>	GBIF 15
Lepidoptera		1	Geometridae	<i>Bathycolpodes anisotes</i>	GBIF 15
Lepidoptera		1	Geometridae	<i>Bathycolpodes semigrisea</i>	GBIF 15
Lepidoptera		1	Geometridae	<i>Brachytrita cervinaria</i>	GBIF 15
Lepidoptera		1	Geometridae	<i>Chlorochaeta esmeralda</i>	GBIF 15
Lepidoptera		1	Geometridae	<i>Cleora boetschi</i>	GBIF 15
Lepidoptera		1	Geometridae	<i>Epigynopteryx tabitha</i>	GBIF 15
Lepidoptera		1	Geometridae	<i>Erastria albosignata</i>	GBIF 15
Lepidoptera		1	Geometridae	<i>Melinoessa aureola</i>	GBIF 15
Lepidoptera		1	Geometridae	<i>Mesothisa gracillinea</i>	GBIF 15
Lepidoptera		1	Geometridae	<i>Mesothisa royi</i>	GBIF 15
Lepidoptera		1	Geometridae	<i>Plegapteryx anomalus</i>	GBIF 15
Lepidoptera		1	Geometridae	<i>Thenopa diversa</i>	GBIF 15
Lepidoptera		1	Geometridae	<i>Timana stramineata</i>	GBIF 15
Lepidoptera		1	Geometridae	<i>Zamarada lanceolata</i>	GBIF 15
Trichoptera		1	Dipseudopsidae	<i>Protodipseudopsis laticornis</i>	GBIF 25
Trichoptera		4	Xiphocentronidae	<i>Abaria electa</i>	GBIF 25
Fish	LC	1	Alestidae	<i>Brycinus leuciscus</i>	ref 7
Fish	LC	1	Alestidae	<i>Brycinus longipinnis</i>	ref 7; GBIF 35; GBIF 44
Fish	LC	1	Alestidae	<i>Brycinus nurse</i>	ref 7
Fish		1	Alestidae	<i>Micralestes elongatus</i>	ref 7
Fish	LC	1	Alestidae	<i>Micralestes occidentalis</i>	ref 7; GBIF 20; GBIF 24; GBIF 35; GBIF 44
Fish	LC	1	Amphiliidae	<i>Amphilius atesuensis</i>	GBIF 35
Fish	LC	1	Cichlidae	<i>Chromidotilapia guntheri</i>	ref 7; GBIF 44
Fish		4	Cichlidae	<i>Hemichromis elongatus</i>	GBIF 44
Fish	LC	1	Cichlidae	<i>Hemichromis fasciatus</i>	ref 7

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Fish	EN	4	Cichlidae	<i>Limbochromis robertsi</i>	GBIF 35; GBIF 39
Fish	VU	1	Cichlidae	<i>Tilapia busumana</i>	ref 7; GBIF 35
Fish		1	Cichlidae	<i>Tilapia zillii</i>	ref 7; GBIF 35
Fish		1	Cyprinidae	<i>Barboides gracilis</i>	GBIF 35
Fish	LC	1	Cyprinidae	<i>Barbus ablabes</i>	ref 7; GBIF 35; GBIF 44
Fish		1	Cyprinidae	<i>Barbus macrinensis</i>	ref 7
Fish	LC	1	Cyprinidae	<i>Barbus macrops</i>	ref 7
Fish	LC	1	Cyprinidae	<i>Barbus trispilos</i>	ref 7; GBIF 44
Fish	VU	1	Cyprinidae	<i>Barbus walkeri</i>	ref 7; GBIF 39
Fish	LC	4	Distichodontidae	<i>Nannocharax fasciatus</i>	GBIF 35; GBIF 44
Fish		1	Distichodontidae	<i>Neolebias ansorgii</i>	GBIF 35
Fish	LC	4	Mastacembelidae	<i>Mastacembelus praensis</i>	GBIF 35; GBIF 39
Fish	LC	1	Mormyridae	<i>Brienomyrus brachyistius</i>	ref 7; GBIF 35
Fish		1	Nothobranchiidae	<i>Aphyosemion bivittatum</i>	GBIF 35
Fish	NT	1	Nothobranchiidae	<i>Epiplatys chaperi</i>	GBIF 20; GBIF 24; GBIF 35; GBIF 44
Fish		1	Nothobranchiidae	<i>Epiplatys chaperi schreiberi</i>	ref 7
Fish		1	Nothobranchiidae	<i>Epiplatys chaperi spillmanni</i>	ref 7
Fish		1	Nothobranchiidae	<i>Epiplatys dageti dageti</i>	ref 7
Fish		1	Poeciliidae	<i>Aplocheilichthys pfaffi</i>	ref 7
Fish		1	Poeciliidae	<i>Procatopus aberrans</i>	GBIF 35
Fish	LC	1	Poeciliidae	<i>Rhexipanchax schioetzi</i>	GBIF 35; GBIF 39

ref 7 = Naskrecki (2007) and Abban (2007)

ref 110 = Obodai *et al.* (2013)

GBIF 12 = CSIRO, Australian National Insect Collection

GBIF 13 = California Academy of Sciences, ANTWEB

GBIF 14 = Natural History Museum, London

GBIF 15 = Zoologische Staatssammlung Muenchen, International Barcode of Life

GBIF 20 = Royal Ontario Museum, Ichthyology Collection

GBIF 21 = Royal Museum of Central Africa, Fruitfly collection

GBIF 24 = Museum of Comparative Zoology, Harvard University ICH

GBIF 25 = Illinois Natural History Survey, Insect Collection

GBIF 27 = Museum of Comparative Zoology, Harvard University IZ

GBIF 34 = iNaturalist

GBIF 35 = Fishbase

GBIF 39 = California Academy of Sciences, Ichthyology collection

GBIF 42 = Plazi.org, Zoologisches Forschungsinstitut und Museum Alexander Koenig (ZMFK)

GBIF 44 = Zoologische Staatssammlung München, Fish collection

GBIF 62 = GBIF (details unknown)

Appendix 11 – suggested revisions to IBA and KBA lists

The wealth of new information available for Atewa Forest suggests a number of revisions to IBA and KBA listings (including in IBAT) for Atewa Range Forest Reserve IBA (GH002). The IBA listing only includes four A1 trigger species (globally threatened species), one A2 trigger species (restricted to an Endemic Bird Area – EBA) and 72 A3 trigger species (biome restricted species, in this case restricted to the Guinea Forest Biome). The current review suggests that the list of A1 trigger species be updated to include an additional nine globally threatened and near-threatened species, the addition of 81 A3 species (many of these species are common and widespread in the forest – pers. obs.), and the removal of five A3 species for which evidence of their occurrence is insufficient (Dowsett-Lemaire & Dowsett 2005).

A1 species that could be added to IBA listing for Atewa Forest.

Species	IUCN status
Crowned Eagle <i>Stephanoaetus coronatus</i>	VU
Yellow-casqued Hornbill <i>Ceratogymna elata</i>	VU
Brown-cheeked Hornbill <i>Bycanistes cylindricus</i>	VU
Grey Parrot <i>Psittacus erithacus</i>	EN
Blue-moustached Bee-eater <i>Merops mentalis</i>	NT
Western Wattled Cuckooshrike <i>Lobotos lobatus</i>	VU
Sharpe's Apalis <i>Apalis sharpii</i>	LC
Nimba Flycatcher <i>Melaenornis annamarulae</i>	VU
Red-fronted Antpecker <i>Parmoptila rubrifrons</i>	NT

A3 species that could be added to the IBA listing for Atewa Forest.

Species	
Blue-headed Wood-dove <i>Turtur brehmeri</i>	Western Yellow-billed Barbet <i>Trachyjaemus goffinii</i>
Brown Nightjar <i>Veles binotatus</i>	Willcocks's Honeyguide <i>Indicator willcocksii</i>
Black Spinetail <i>Telacanthura melanopygia</i>	African Piculet <i>Verreauxia africana</i>
Sabine's Spinetail <i>Rhaphidura sabini</i>	Little Green Woodpecker <i>Campethera maculosa</i>
Bates's Swift <i>Apus batesi</i>	Fire-bellied Woodpecker <i>Dendropicops pyrrhogaster</i>
Black-throated Coucal <i>Centropus leucogaster</i>	Grey Parrot <i>Psittacus erithacus</i>
Olive Long-tailed Cuckoo <i>Cercococcyx olivinus</i>	Rufous-sided Broadbill <i>Smithornis rufolateralis</i>
White-spotted Flufftail <i>Sarothrura pulchra</i>	Western Black-headed Oriole <i>Oriolus brachyrhynchus</i>
Yellow-billed Turaco <i>Tauraco macrorhynchus</i>	Western Wattled Cuckooshrike <i>Lobotos lobatus</i>
Red-chested Owlet <i>Glaucidium tephronotum</i>	African Shrike-flycatcher <i>Megabyas flammulatus</i>
Congo Serpent-eagle <i>Dryotriorchis spectabilis</i>	West African Batis <i>Batis occulta</i>
Cassin's Hawk-eagle <i>Aquila africana</i>	Red-cheeked Wattle-eye <i>Dyaphorophya blissetti</i>
Red-legged Sparrowhawk <i>Accipiter erythropus</i>	Sabine's Puffback <i>Dryoscopus sabini</i>
West African Pied Hornbill <i>Lophoceros semifasciatus</i>	Lowland Sooty Boubou <i>Laniarius leucorhynchus</i>
Western Long-tailed Hornbill <i>Horizocerus albocristatus</i>	Western Crested-flycatcher <i>Trochocercus nitens</i>
Yellow-casqued Hornbill <i>Ceratogymna elata</i>	Red-bellied Paradise-flycatcher <i>Terpsiphone rufiventer</i>
Brown-cheeked Hornbill <i>Bycanistes cylindricus</i>	Dusky Tit <i>Melaniparus funereus</i>
Western Piping Hornbill <i>Bycanistes fistulator</i>	Forest Penduline-tit <i>Anthoscopus flavifrons</i>
Black Bee-eater <i>Merops gularis</i>	Western Nicator <i>Nicator chloris</i>
African Dwarf-kingfisher <i>Ispidina lecontei</i>	Black-capped Apalis <i>Apalis nigriceps</i>
White-bellied Kingfisher <i>Corythornis leucogaster</i>	Yellow-browed Camaroptera <i>Camaroptera supercilialis</i>
Chocolate-backed Kingfisher <i>Halcyon badia</i>	Olive-green Camaroptera <i>Camaroptera chloronota</i>
Speckled Tinkerbird <i>Pogoniulus scolopaceus</i>	Red-tailed Bristlebill <i>Bleda syndactylus</i>

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Green-tailed Bristlebill <i>Bleda eximius</i>	Ussher's Flycatcher <i>Bradornis ussheri</i>
Grey-headed Bristlebill <i>Bleda canicapillus</i>	African Forest-flycatcher <i>Fraseria ocreata</i>
Honeyguide Greenbul <i>Baeopogon indicator</i>	Grey-throated Tit-flycatcher <i>Fraseria griseigularis</i>
Ansorge's Greenbul <i>Eurillas ansorgei</i>	Nimba Flycatcher <i>Melaenornis annamarulae</i>
Plain Greenbul <i>Eurillas curvirostris</i>	Fraser's Sunbird <i>Deleornis fraseri</i>
Yellow-bearded Greenbul <i>Criniger olivaceus</i>	Little Green Sunbird <i>Anthreptes seimundi</i>
Icterine Greenbul <i>Phyllastrephus icterinus</i>	Blue-throated Brown Sunbird <i>Cyanomitra cyanolaema</i>
Baumann's Greenbul <i>Phyllastrephus baumanni</i>	Buff-throated Sunbird <i>Chalcomitra adelberti</i>
Leaf-love <i>Pyrrhurus scandens</i>	Johanna's Sunbird <i>Cinnyris johannae</i>
Chestnut-capped Flycatcher <i>Erythrocercus mcallii</i>	Superb Sunbird <i>Cinnyris superbus</i>
Rufous-winged Illadopsis <i>Illadopsis rufescens</i>	Bates's Sunbird <i>Cinnyris batesi</i>
Chestnut-winged Starling <i>Onychognathus fulgidus</i>	Maxwell's Black Weaver <i>Ploceus albinucha</i>
Narrow-tailed Starling <i>Poeyoptera lugubris</i>	Blue-billed Malimbe <i>Malimbus nitens</i>
Copper-tailed Starling <i>Hyllopsar cupreocauda</i>	Red-headed Malimbe <i>Malimbus rubricollis</i>
White-tailed Ant-thrush <i>Neocossyphus poensis</i>	Western Bluebill <i>Spermophaga haematina</i>
White-tailed Alethe <i>Alethe diademata</i>	White-breasted Nigrita <i>Nigrita fusconotus</i>
Little Grey Flycatcher <i>Muscicapa epulata</i>	Red-fronted Antpecker <i>Parmoptila rubrifrons</i>

A3 species that should be removed from the IBA listing for Atewa Forest

Afep Pigeon *Columba uncinata*
Dusky Long-tailed Cuckoo *Cercococcyx mehowi*
Green Turaco *Tauraco persa*
White-bibbed Swallow *Hirundo nigrita*
Cassin's Flycatcher *Muscicapa cassini*