

APPENDIX

Endemic and near-endemic species and their distribution in Zambia

Names followed by [©] refer to annotated citations in Bingham & Smith (2002).

Endemics

PTERIDOPHYTA

ASPLENIACEAE

Asplenium chaseanum Schelpe

Terrestrial fern on rocks near waterfalls and on beds of seasonal streams, in deep shade of evergreen forests, Lake Bangweulu near Samfya Mission, Samfya (*White 3163*); Lunzua Falls, Mbala (*Kornas 1843*).

ATHYRIACEAE

Athyrium annae Kornas

Terrestrial fern in moist evergreen forest at Lumangwe Falls, Mporokoso (*Kornas 3746*).

SELAGINELLACEAE

Selaginella subisophylla Jermy

Terrestrial fern ally on white sand near waterfalls, Ntumbachushi Falls, Kawamwa (*Richards 9325*).

DICOTYLEDONAE

AMARANTHACEAE

Celosia richardsiae C.C.Towns.

Herb on steep path to the lake, near Kampinda, Mweru Wantipa, Kaputa (*Richards 9128*).

Mechowia redactifolia C.C.Towns.

Herb on sandy soil in dambo, Chimbwi along Kawambwa–Mansa Rd. (*Richards 15388*).

Pandiaka richardsiae Suess.

Herb in short grass under *Uapaca*, Chimbwi, Kawambwa (*Mutumushi 427*).

ANACARDIACEAE

Lannea virgata R.Fern. & A.Fern.

Suffrutex in woodland–dambo fringes and on termite mounds, Kasempa (*Fanshawe 6685*); Zambezi (*Gilges 119*).

Ozoroa bredoi R.Fern. & A.Fern.

Suffrutex between Kanfundu and Chiengi (*Bredo 3941*).

Ozoroa kassneri (Engl. & Brehmer) R.Fern. & A.Fern. var. **rhodesica** R.Fern. & A.Fern.[©]**Ozoroa nitida** (Engl. & Brehmer) R.Fern. & A.Fern.

Shrub to 1.2 m high in mixed woodland and dambo fringes, Kabompo (*Holmes 1033*); Luanshya (*Fanshawe 478*); Siamambo Forest Reserve in

Choma (*Angus 927*); Dambwa Forest Reserve in Livingstone (*White 1982*).

Rhus fanshawei R.Fern. & A.Fern.

Suffrutex on rocky hills and woodlands, 41.5 km from Kasama on road to Chambeshi River (*Fanshawe 1989*).

Sorindeia rhodesica R.Fern. & A.Fern.

Shrub in evergreen forest, Mansa (*Angus 260*); Kawambwa (*Fanshawe 3503*); Chinakila near Senga Hill (*Lawton 650*).

Sorindeia undulata R.Fern. & A.Fern.

Small tree in riparian woodland, Chiengi (*Fanshawe 4739*).

ASTERACEAE

Ageratinastrum palustre Wild & G.V.Pope

Herb along Mporokoso–Senga Hill Rd. (*Richards 16151*).

Athroisma fanshawei Wild

A semi-aquatic herb occurring in pans, Ndola District (*Fanshawe 7752*).

Bidens rubicunda Sherff

An annual herb recorded in miombo woodland, Kasempa District (*Drummond & Rutherford-Smith 7205*); Kalenda Plain, Mwinilunga District (*Robinson 3634*).

Dacryotrichia robinsonii Wild

An annual herb found near stream banks and in wet dambo areas associated with Kalahari sands, north of Kalabo (*Rea 145*); and in Namwala District (*Robinson 2086*).

Erythrocephalum dictyophlebium Wild[®]**Gutenbergia mweruensis** Wild & G.V.Pope

Herb on sandy lake shore, Lake Mweru (*Bullock 1221*).

Gutenbergia trifolia Wild & G.V.Pope

Herb in shallow peaty soil, near water hole, Kalenda Plain, Mwinilunga (*Milne-Redhead 4417*).

Nicolasia coronata Wild

Herb occurring in dambo areas of Kambole escarpment, Mbala District (*Sanane 167 & 619*).

Pleiotaxis angustirugosa C.Jeffrey

Suffrutex, Chavuma (*Gilges 398*).

Pteronia smutsii Hutch.

Shrub up to 2 m high, occurring on crest of rocky places along Lunzua Escarpment, Mbala District (*Smuts, Mrs Gillett & Gillett 3979*).

Rastrophyllum pinnatipartitum Wild & G.V.Pope[®]**Vernonia bruceana** Wild

A perennial herb occurring in miombo woodland at Kundabwika Falls, Mporokoso District (*Tyrer 193*).

Vernonia entohylea Wild

A perennial herb near the Zambezi River above the rapids, north of Kalene Mission, Mwinilunga District (*Drummond 8363*).

Vernonia helodea Wild

Perennial herb in swampy grassland, Chinakila, Mbala (*Richards 19470*).

Vernonia isoetifolia Wild

Perennial herb on moist sandy grassland, Kambole-Mbala Rd. (*Richards 18919*).

Vernonia lycioides Wild[®]**Vernonia madefacta** Wild

Herb on damp rocks near waterfalls Chilongowelo, Mbala (*Richards 5815*).

Vernonia milne-redheadii Wild

A perennial herb on sandy plain along the woodland edge, in Chamwana Plain, Mwinilunga District (*Milne-Redhead 2783*).

Vernonia mutimushii Wild

Perennial herb on moist dambos, Nteke, Kawambwa (*Mutimushi 472*).

Vernonia najas Wild

Perennial herb in sandy dambo, 1.6 km south of Zambia-Congo border on Mwinilunga Mutshatsha Rd. (*Lewis 6235*).

BALSAMINACEAE**Impatiens hydrogetonoides** Launert

Succulent perennial herb on Mafingi Mountain near Chisenga, Isoka (*Angus 816*).

Impatiens limnophila Launert

Prostate herb in mud along river banks and water courses, Lunzua Falls (*Richards & Whellan 1948*);

Kambole area (*Richards 5954*), both localities in Mbala District.

BEGONIACEAE**Begonia pygmaea** Irmsch.[®]**BORAGINACEAE****Cystostemon hispidissinus** (S.Moore) A.G.Mill. & Riedl subsp. **zambiensis** A.G.Mill. & Riedl

Perennial herb in miombo woodland, occurring between Wanulolo R. and Lunga R., Mwinilunga District (*Holmes 1187*).

Cystostemon loveridgei E.S.Martins

Perennial herb near Muwozi stream, 67.5 km south of Mwinilunga on Kabompo Rd. (*Loveridge 705*).

Cystostemon mwinilungensis E.S.Martins

Perennial herb up to 2 m high, occurs on Kalahari sands in degraded *Cryptosepalum* woodland, 60 km south of Mwinilunga on Kabompo Rd. (*Brummitt, Chisumpa & Polhill 14110*).

CAMPANULACEAE**Wahlenbergia cephalodina** Thulin

Herb on Kalahari sand in woodland, 21 km southwest of Kabompo on Zambezi Rd. (*Drummond & Rutherford-Smith 7276*).

Wahlenbergia ramosissima (Hemsl.) Thulin subsp. **richardsiae** Thulin[®]**CAPPARACEAE****Boscia cauliflora** Wild

Small tree on termitaria in miombo woodland, Mantochi Farm, Mwinilunga (*Milne-Redhead 4454*).

Maerua paniculata Wild

A liane in dense thicket, Chisyela-Chikuku watershed, Kaputa (*Michelmores 446*).

CLUSIACEAE (includes HYPERICACEAE)**Garcinia pachyclada** N.Robson[®]**Hypericum oligandrum** Milne-Redh.

Perennial herb on river banks and along lake margins, Lunga R., Mwinilunga (*Milne-Redhead s.n.*); Ishiba Ngandu (*Richards 10739*).

COMBRETACEAE**Combretum mweruense** Baker

Shrub to about 1.2 m high in semi-deciduous thickets, Kalungwishi R., Mporokoso (*Fanshawe 4783*); Kaputa (*Carson 37*).

Meiostemon tetrandus (Exell) Exell & Stace subsp. **tetrandrus**

Shrub to 4 m high in Itigi thicket, Mbala (*Trapnell 1726*).

Pteleopsis pteleopoides (Exell) Vollesen

Small to 9 m high tree at dambo edges fringing the *Acacia-Combretum-Terminalia* woodland, Nsama, Kaputa (*Fanshawe 4929*).

Terminalia erici-rosenii R.E.Fr.

Shrub at dambo edges and laterite pans, Chimbwi in Kawambwa District (*Mutimushi 386*); 45 km east of Mporokoso (*Vesey-Fitzgerald 3117*); Mufulira (*Fanshawe 3333*).

CONVOLVULACEAE

Ipomoea bakeri Britten

Herb occurs on sandy soil, at Misamfu, 6 km north of Kasama (*Angus 2665*).

Ipomoea richardsiae Verdc.

Suffrutex on rock outcrop in woodland, Kalenda Village west of Mantochi Farm (*Milne-Redhead 3058*).

CUCURBITACEAE

Trochomeria subglabra Jeffrey[®]

EUPHORBIACEAE

Clutia whytei Hutch. var. **monticoloides**

Radcl.-Sm.[®]

Croton polytrichus Pax subsp. **brachystachys**

Radcl.-Sm.[®]

Euphorbia cooperi N.E.Br. ex A.Berger var. **calidicola** L.C.Leach[®]**Euphorbia cooperi** N.E.Br. ex A.Berger var. **ussanguensis** (N.E.Br.) L.C.Leach[®]**Euphorbia debilis** L.C.Leach

Succulent shrub up to 15 cm high on limestone pavement in degraded woodland, 8 km and 14 km west of Lusaka (*Williamson & Drummond 1995*).

Euphorbia decidua P.R.O.Bally & L.C.Leach[®]**Euphorbia distinctissima** L.C.Leach

Shrub about 25 cm high, 76 km south of Mbala in Senga Hill area on Mporokoso Rd. (*Bullock 3312*).

Euphorbia erantes R.A.Dyer & Milne-Redh.

In open woodland on rocky lateritic soils, Mbala (*Mutimushi 867*); Mufulira (*Fanshawe 2426*); Solwezi (*Milne-Redhead 1158*).

Euphorbia erythrocephala P.R.O.Bally & Milne-Redh.

Herb at the source of Mantochi R., Mwinilunga (*Mutimushi 3172*).

Euphorbia fanshawei L.C.Leach

Small shrub with numerous branches radiating from underground stem, on shallow quartzite soil in miombo woodland, Ntumbachushi Falls, Kawambwa (*Chisumpa 96*, *Williamson & Drummond 1985a*).

Euphorbia griseola Pax subsp. **zambiensis** L.C.Leach

Shrub with stems constricted into segments up to 2 m high, 56 km east of Kapiri Mposhi (*Leach &*

Brunton 10019); Ishiba Ngandu, Chinsali

(*Chisumpa 610*); Chingola (*Fanshawe 3821*).

Euphorbia inundaticola L.C.Leach[®]**Euphorbia jubata** L.C.Leach

A densely branched shrub, with stems slightly constricted into segments, on granite rocks in miombo woodland, 3 km south-west of Serenje (*Leach & Brunton 10040*), Kaloswe, Mpika District (*Hutchinson & Gillett 3771*).

Euphorbia luapulana L.C.Leach

Succulent shrub to 1 m high on rocks close to the waterfalls and rapids, Musonda Falls, Mwense (*Williamson 1147*).

Euphorbia papillicapsa L.C.Leach

In miombo woodland, 25 km north of Chipili Mission, Mansa (*Drummond & Williamson 10066*); Itembwe Gorge, Mbala (*Richards 13772*).

Euphorbia perplexa L.C.Leach var. **kasamana** L.C.Leach

Small shrub characterised with spines to 10 mm long, north of Kasama (*Williamson s.n.*).

Euphorbia perplexa L.C.Leach var. **perplexa**

Small succulent shrub with spines up to 7 mm long. Occurs on granite rocks, laterite and sandy soil, on Ndundu Hills, Mbala (*Richards 13168*).

Euphorbia platyrrhiza L.C.Leach

Spiny succulent to 30 cm high shrub on Kalahari sand along fringe of seasonal pan, 45 km west of Kabompo (*Drummond & Rutherford-Smith 7303*).

Euphorbia seretii De Wild. subsp. **variantissima** L.C.Leach

A candelabra-like succulent shrub up to 3 m tall, on quartzite rock along Kabompo Gorge (*Leach & Williamson 13551*); another population recorded at Mkushi Boma (*Leach 13537*).

Euphorbia speciosa L.C.Leach

Succulent shrub to 30–90 cm high in cracks on rock pavement, Chishimba Falls, Kasama District (*Fanshawe 4783*).

Euphorbia whellanii L.C.Leach

Spiny succulent shrub to 15 cm high in crevices, Kawimbe Mission near border with Tanzania, Mbala (*Whellan 2122*).

Euphorbia williamsonii L.C.Leach

Shrub to 1 m high on quartzite rock outcrop, Ntumbachushi Falls, Kawambwa (*Williamson & Simon 729*).

Jatropha pachyrrhiza Radcl.-Sm.[®]**Jatropha seineri** Pax var. **tomentella** Radcl.-Sm.[®]**Monadenium friesii** N.E.Br

Herb on rocky hillside, 5 km east of Kampumbo School on Isoka–Muyombe Rd. (*Philcox, Pope & Chisumpa 9932*); Katondwe (*Fanshawe 9726*).

Monadenium fwambense N.E.Br.

Tuberous geophyte on granite outcrops, Bwingimfumu Hills, Chinsali (*Fanshawe 1985*); 28 km north of Mporokoso (*Radcliffe-Smith, Pope & Goyder 5699*).

- Monadenium hirsutum** P.R.O.Bally
Tuberous geophyte on rocky places, Kundabwika Falls (*Walter 1*).
- Monadenium pudibundum** P.R.O.Bally var. **pudibundum**[®]
- Phyllanthus caespitosus** Brenan
In miombo woodland, 33 km ESE of Kasama (*Robinson 4391*).
- Phyllanthus friesii** Hutch.[®]
- Phyllanthus martinii** Radcl.-Sm.
Annual herb on Kalahari sands in *Baikiaea* forest, Western Province (*Martin 575/33*).
- Phyllanthus sananei** J.F.Brunel[®]
- Phyllanthus tener** Radcl.-Sm.
On ridge, 3 km from Chirundu along Lusaka Rd. (*Drummond 5408*).
- Phyllanthus tenuis** Radcl.-Sm.
On sandy soil along the escarpment west of Kawambwa, 09°50'S, 28°57'E (*Smith, Pope & Goyder 5727*).
- Phyllanthus xiphephorus** J.F.Brunel ex Radcl.-Sm.
In grassland, Chilongowelo, Mbala (*Richards 4265*).
- Sapium acetosella** Milne-Redh. var. **lineare** Léonard[®]
- Synadenium glabratum** S.Carter
Succulent shrub on rocky lake shore of Crocodile Island, Lake Tanganyika, Mbala (*Richards 18968*).
- Tragia micromeres** Radcl.-Sm.
Herb on lake shore sand dunes, Lake Bangweulu, 11°21'S, 29°33'E, Samfya (*Smith, Pope & Goyder 5752*).
- Tragia prostrata** Radcl.-Sm.
In chipya woodland, Lumangwe Forest Reserve, Mporokoso (*Fanshawe 3994*).
- Tragiella friesiana** (Prain) Pax & K.Hoffm.
Near Chilwa Stream on Chitimbwa Rd., Mbala (*Sanane 1327*).

FABACEAE

CAESALPINIOIDEAE

- Aphanocalyx trapnellii** (J.Léonard) Wieringa[®]
- Brachystegia astlei** Hoyle[®]
- Brachystegia michelmorei** Hoyle[®]

PAPILIONOIDEAE

- Aeschynomene bracteosa** Baker var. **major** Verdc.[®]
- Aeschynomene lateriticola** Verdc.
Herb on shallow soil north of Mwinilunga (*Milne-Redhead 4362*).
- Aeschynomene pseudoglabrescens** Verdc.
Suffrutex in miombo woodland, Mifundu R., Kasama (*Richards 19350*); Kitwe (*Fanshawe 9420*).

- Aeschynomene stipulosa** Verdc.
Herb on slope toward East Lunga R. in miombo woodland, Mwinilunga (*Milne-Redhead 3342*).
- Aeschynomene venulosa** Verdc. var. **grandis** Verdc.[®]
- Baphia speciosa** J.B.Gillett & Brummitt[®]
- Crotalaria argenteotomentosa** R.Wilczek subsp. **dolosa** Polhill
Erect annual plant up to 100 cm tall in miombo woodland, Kumbulo Island on Lake Tanganyika, Mbala (*Richards 5397*).
- Crotalaria blanda** Polhill
Annual herb up to 1.5 m tall along escarpment woodland, Mansa (*Fanshawe 8574*).
- Crotalaria carsonii** Baker f.
Annual herb up to 80 cm tall along fringe of rivers and swamps, Kapata-Sondwe, Mbala (*Bullock 2881*); Kawambwa (*Richards 9330*); 7 km north of Kalene Hill (*Robinson 6576*).
- Crotalaria confertiflora** Polhill
Annual herb up to 70 cm tall in seasonally moist floodplain, Chibutubutu, 50 km south of Kasama (*Robinson 4703*).
- Crotalaria crebra** Polhill
Erect annual herb up to 70 cm tall along woodland fringe, 7 km north of Kalene Hill, Mwinilunga (*Robinson 6624*).
- Crotalaria criniramea** Baker f. ex Polhill
Prostrate herb with tomentose (hairy) stems, Mwinilunga (*Marks 16*).
- Crotalaria debilis** Polhill
Annual herb with wiry stems up to 25 cm tall in riparian grassland and laterite pavements, Kalenda Plain, Mwinilunga (*Robinson 3629b*); Kafue River bank, 11 km north of Chingola (*Robinson 3707*).
- Crotalaria duboisii** R.Wilczek subsp. **mutica** Polhill
An annual herb to 100 cm high, in miombo woodland Senga Hill, Mbala (*Robinson 5208*); 60 km south-west of Mbala (*Hooper & Townsend 781*).
- Crotalaria egeria** Polhill
Annual herb up to 50 cm high in miombo woodland and along dambo fringes, on Chilongowelo Escarpment, Mbala (*Richards 16259*).
- Crotalaria eurycalyx** Polhill
Annual herb up to 90 cm tall in miombo woodland along Kawambwa–Mbereshi Road, Kawambwa District (*Richards 9377*).
- Crotalaria friesii** l.Verdc.
Suffrutex with numerous stems, Kabwe (*R.E. Fries 219*); Lusaka South Forest Reserve (*Farrell 366*).
- Crotalaria ionoptera** Polhill
Erect annual herb on sandy soil and laterite pavement, Mongu Airport (*Verboom 1000*); Kalenda Plain, Mwinilunga (*Milne-Redhead 4558*).
- Crotalaria limosa** Polhill
Annual plant to 40 cm tall in moist lateritic places of dambos, Kalenda Plain, Mwinilunga (*Robinson 3606*).

Crotalaria nuda Polhill

Suffrutex up to 90 cm on woodland and seasonally damp places, 32 km SSW of Mpika on Muching Escarpment (*Brummitt, Chisumpa & Nshingo 17017*); 13 km west of Lusaka on Old Mumbwa Road (*Van Rensburg 2894*); Lake Ishiku, Ndola (*Fanshawe 3188*).

Crotalaria nudiflora Polhill

Erect annual herb with slender stems up to 60 cm tall, along Luombe River, Kasama (*Exell, Mendonça & Wild 1381*).

Crotalaria onusta Polhill

Erect annual herb in disturbed grassland, Chilongowelo, Mbala (*Richards 1865*).

Crotalaria peregrina Polhill

Annual herb up to 70 cm tall, on sandy soil in disturbed miombo woodland, Inono River, Mbala (*Richards 11092*).

Crotalaria polytricha Polhill

Small shrub up to 1.2 m tall along fring of ever-green thicket near Lake Chirengwa, Ndola (*Fanshawe 1146*).

Crotalaria praetexta Polhill

Annual herb up to 30 cm tall in miombo woodland, 114 km from Solwezi on Mwinilunga road (*Drummond & Rutherford-Smith 7179*); near Kawambwa (*Richards 9440*); 10 km south of Kapiri Mposhi (*Exell, Mendonça & Wild 1221*).

Crotalaria pygmaea Polhill

Small annual plant up to 10 cm tall in miombo woodland, Nsama, Kaputa District (*Richards 8993*); Lumangwe Falls, Mporokoso (*Goyder, Pope & Radcliffe-Smith 3027*).

Crotalaria simoma Polhill

Loosely branched erect annual plant on sandy soil, near Inono stream, Mbala–Mpulungu Rd. (*Richards 5322*).

Crotalaria streptorrhyncha Milne-Redh.

Erect annual plant up to 80 cm high in miombo and riparian woodlands, Mutanda Bridge, Solwezi (*Milne-Redhead 569*); 8 km west of Solwezi (*Drummond & Rutherford-Smith 7005*); 7 km north of Kalene Hill, Mwinilunga (*Robinson 6621*).

Crotalaria trinervia Polhill[®]**Crotalaria tristis** Polhill

Shrub to 1.6 m tall in secondary woodland, Kambole, Mbala (*Richards 8239*).

Crotalaria vanmeelii R.Wilczek[®]**Crotalaria umbellifera** R.E.Fr.

Prostrate herb up to 40 cm long on Kambole Escarpment, Mbala (*Richards 19260*).

Dolichos filifoliolus Verdc.

Prostrate herb on sandy soil in dambos and lateritic pans, Ntumbachushi Valley (*Richards 15430*); south-west of Dobeka Bridge, Mwinilunga (*Milne-Redhead 3091*).

Droogmansia pteropus (Baker) De Wild. var. **axillaris** Verdc.[®]**Entada bacillaris** F.White var. **plurijuga** Brenan[®]**Entada dolichorrhachis** Brenan

On sandy soil in *Brachystegia* woodland, Mbala (*Richards 11952*).

Humularia kapiriensis (De Wild.) P.A.Duvign. var. **repens** Verdc.[®]**Humularia minima** (Hutch.) P.A.Duvign. subsp. **flabelliformis** (P.A.Duvign.) Verdc.

Small shrub on Kalahari sands in miombo, 27.2 km south of Mwinilunga on Kabompo Rd. (*Loveridge 838*).

Humularia minima (Hutch.) P.A.Duvign. subsp. **minima**

Small shrub in grassland and open woodland, between Isanya and Wambeshi R., Mwinilunga (*B.D. Burt 6375*).

Humularia pseudoaeschynomene Verdc.

Rhizomatous suffrutex on Kalahari sands in dambo north of Kalene Mission (*White 3349*).

Humularia submarginalis Verdc.[®]**Indigofera emarginella** Steud. ex A.Rich. var.**longefoliolata** J.B.Gillett[®]**Kotschya imbricata** Verdc.

Small shrub on granite rocks along Kabompo Gorge Rd., Solwezi District (*Mutumushi 3138*).

Kotschya longiloba Verdc.

Small shrub on black soil in floodplain, Near Nsama, Kaputa District (*Bullock 2907*).

Kotschya prittwitzii (Harms) Verdc. var. **parviflora** Verdc.[®]**Kotschya suberifera** Verdc.

Shrub on shallow stony soils, Kalene Hill, Mwinilunga (*Angus 554*).

Ophrestia breviracemosa Verdc.

Small shrub in *Uapaca* woodland, Mantochi–Kabompo road junction near Mwinilunga (*Drummond & Williamson 9307*).

Ophrestia unicostata (F.J.Herm.) Verdc.

Twining herb in savanna and *Uapaca* woodland, Nkali, Mbala (*Richards 16207*).

Tephrosia kasikiensis Baker f. subsp. **chinsaliana** Brummitt[®]**Tephrosia muenzneri** Harms subsp. **pedalis** Brummitt[®]**Tephrosia richardsiae** J.B.Gillett subsp. **erucifera** Brummitt[®]**Tephrosia zambiana** Brummitt[®]

GENTIANACEAE

Faroa alata P.Taylor

Perennial herb, occurs on rocky pavement near Muzombwe Mbala (*Phipps & Vesey-Fitzgerald 3192*).

Faroa corniculata P.Taylor

Perennial herb, grows in rock crevices on Kalambo Rd., Chilongowelo, Mbala (*Richards 1461*).

Faroa hutchinsonii P.Taylor

Perennial herb on sandstone rocks, Serenje Corner (*Hutchinson & Gillett 3709*).

Faroa minutiflora P.Taylor

Annual herb, occurs on rocks along Mungwi–Kasama Rd., Kasama District (*Richards 16426*).

Sebaea africana Paiva & Nogueira

Annual herb up to 6 cm high on moist sandy soil, along Kawambwa–Mbereshi Rd. (*Richards 9337*).

Sebaea alata Paiva & Nogueira

Annual herb to 15 cm high in dambo, Chishinga Ranch, Kawambwa (*Astle 545*).

Sebaea caudata Paiva & Nogueira

Annual herb up to 30 cm high in Simansunda Dambo, Mapanza, Choma District (*Robinson 1251*).

Sebaea clavata Paiva & Nogueira

Annual herb up to 30 cm high in miombo woodland, about 24 km from Senga Hill to Mporokoso (*Robinson 1736*).

Sebaea fernandesiana Paiva & Nogueira

Annual herb to 15 cm tall in moist soil on rocky outcrops near Zambezi rapids, about 6 km north of Kalene Hill, Mwinilunga (*Hooper & Townsend 256*).

Sebaea perpusilla Paiva & Nogueira

Perennial herb in dambos, Mongu (*Robinson 6829*); 37 km west of Mwinilunga (*Brummitt, Chisumpa & Polhill 14093*).

GESNERIACEAE**Streptocarpus** aff. **michelmorei** Hilliard & B.L.Burt[®]**HYDROPHYLLACEAE****Hydrolea brevistyla** Verdc.

Annual herb up to 30 cm tall growing in Simansunda Dambo, 4.8 km east of Mapanza, Choma (*Robinson 5200*).

LAMIACEAE**Aeollanthus alternanthus** Ryding

Tuberous herb on sandy soil, Mbala (*Richards 18841*).

Aeollanthus petiolatus Ryding

Herb on rocks or shallow soils, Kalambo Falls, Mbala (*Richards 8258*).

LENTIBULARIACEAE**Genlisea glandulosissima** R.E.Fr.[®]**LYTHRACEAE****Nesaea purpurascens** A.Fern.

Herb on mud at dam edges, Chandola, Chipata (*Mutumushi 1492*).

Nesaea robinsoniana A.Fern.

Annual herb in wet places, 95 km east of Kasama (*Robinson 5137*).

Rotala cordipetala R.E.Fr.

Rhizomatous herb on sandy soils at edge of Lake Bangweulu, Kasoma, Samfya (*Fries 656*).

Rotala juniperina A.Fern.[®]**Rotala myriophylloides** Welw. ex Hiern[®]**Rotala submersa** Pohnert var. **angustipetala**

A.Fern.[®]

MALVACEAE (incl. Tiliaceae)**Corchorus saxatilis** Wild

Annual herb up to 30 cm high in shallow soil and rock outcrops, 32 km east of Kacholola, Nyimba (formerly Petauke District) (*Exell, Mendonça & Wild 1166*); Solwezi (*Drummond & Rutherford-Smith 7091*); Mapanza, Choma District (*Robinson 486*).

Triumfetta grandistipulata Wild

Shrub on sandy flats in scrub woodland, Kawambwa (*Fanshawe 2959*).

Triumfetta reticulata Wild

Shrub to 60 cm high in waste places and in woodland, Ndola (*Fanshawe 21*).

Triumfetta tenuipedunculata Wild

Small shrub up to 1.5 m tall in shady places of woodland, Luombe R. at Chishimba Falls, Kasama (*Richards 5255*); Chifubwa Gorge, Solwezi District (*Drummond & Rutherford-Smith 7114*).

MELASTOMATACEAE**Cinnobotrys acaulis** (Cogn.) Gilg[®]**Dichaetanthera rhodesiensis** A.Fern. & R.Fern.

Small tree on lateritic soils, Kalene Hill, Mwinilunga (*Angus 553*).

Dissotis caloneura Engl. var. **pilosa** A.Fern. & R.Fern.[®]**Dissotis glandulosa** A.Fern. & R.Fern.

Perennial herb in moist sandy soil in woodland at source of Zambezi R., Mwinilunga (*Robinson 5990*).

Dissotis simonis-jamesii Buscal. & Muschl.

Shrub 32 km south of Mbala on Kasama Rd. (*Von Aosta 1135*).

Memecylon zambesiense A.Fern. & R.Fern.

Shrub in riparian forest, near Kalene Mission, Mwinilunga (*White 3304*).

MENYANTHACEAE**Nymphoides milnei** A.Raynal

Annual herb in a seasonal pool, about 1 km southwest of Mantochi Farm, Mwinilunga (*Milne-Redhead 4317*).

OLACACEAE**Ptychopetalum cuspidatum** R.E.Fr.

A woody twiner found in gallery forest along Mano River near Lake Bangweulu, Samfya District (*Fries 762*).

OLEACEAE

Chionanthus richardsiae Stearn

Shrub to 4 m tall on Inono Rd., Mbala (*Richards 4144*); Kalambo Falls, Mbala (*Bock 154*).

OXALIDACEAE

Biophytum nyikense Exell[®]**Biophytum richardsiae** Exell

Perennial herb up to 20 cm high on cliff ledges, along Chisau R. Gorge, Saisi Valley, Mbala (*Richards 11795*).

Oxalis abercornensis Kunth

A perennial herb to 20 cm high occurring along paths, near Tanzanian border, Mbala (*Michelmores 1049*).

PASSIFLORACEAE

Adenia erecta W.J.de Wilde

Perennial herb in riparian grassland and miombo woodland, south of Mantochi, Mwinilunga (*Milne-Redhead 2926*).

Adenia tuberifera R.E.Fr.

Tuberous herb in stony open woodland, Kalambo Falls, Mbala (*Richards 13565*).

Adenia ovata W.J.de Wilde

Tuberous herb on laterite and sandy soil in miombo, Kitwe (*Mutimushi 2857*), Chosi Flats, Kasama (*Richards 19374*).

Basananthe hotmesii R.Fern. & A.Fern.

Perennial herb in calcareous red soils, Mwinilunga (*Holmes 1320*).

PITTIOSPORACEAE

Pittosporium kapiense Cufod

Tree in riparian forest, Kapiri Mponshi (*Fanshawe 3443*).

PODOSTEMACEAE

Leiothylax drummondii C.Cusset

Aquatic plant on fast flowing water lined with granite, Lusemfwa R., Mkushi (*Drummond 8271*).

POLYGALACEAE

Polygala britteniana Chodat

Perennial herb in riparian forest, 8 km south of Mbala on Kasama Rd. (*Greenway & Brenan 8237*).

PRIMULACEAE

Anagallis rhodesica R.E.Fr.[®] (under Myrsinaceae)

RHIZOPHORACEAE

Cassipourea fanshawei Torre & Gonç.[®]

RUBIACEAE

Amphiasma redheadii Bremek

Herb in miombo woodland near Wanibobo R., Mwinilunga District (*Milne-Redhead 859*).

Batopedina linearifolia (Bremek.) Verdc.

Small shrub to 25 cm tall in rock crevices, at Nambala Hill, Mumbwa (*Fanshawe 4143*) and at Muva Hill in Luanshya (*Maccauley 775*).

Fadogia luangwae Verdc.

A suffrutex in hill miombo, 11°44'S, 32°05'E, North Luangwa National Park, Mpika (*Smith 0220*).

Oldenlandia geophila Bremek.

A prostrate herb in margins of sandy dambos, Mufulira (*Eyles 8131*); Luano (*Mutimushi 1961*).

Oldenlandia robinsonii Verdc.

Herb on lateritic gravel, Mantochi, Mwinilunga (*Robinson 3622*).

Otiophora angustifolia Verdc.

Plant on rocky outcrops along Kasama–Mungwi Rd. (*Richards 16417*).

Pachystigma albosetulosum Verdc.

Small shrub on fringe of woodland patch, Liuwa Plain, 48 km north of Kalabo (*Drummond & Cookson 6461*).

Pentanisia confertifolia (Baker) Verdc.

Herb in miombo, Mbala (*Bullock 3966*).

Psychotria mwinilungae Verdc.

Herb in riparian forest on West Lunga R., 8 km north of Mwinilunga (*Brummitt 14018*).

Psychotria pumila Hiern var. **subumbellata** (Petit) Verdc.[®]**Spermacoce annua** Verdc.

Ephemeral herb on rocky outcrops in dambos near Zambezi rapids, Mwinilunga District (*Mutimushi 3356*).

Spermacoce bangweolensis (R.E.Fr.) Verdc.

Herb on bare soil, Lake Bangweulu, Samfya (*Fries 662*).

Spermacoce perennis Verdc. var. **fimbriolata** Verdc.

Herb in dambo, Chishinga Ranch, Kawambwa (*Astle 530*).

Spermacoce perennis Verdc. var. **perennis**

Herb on sandy soil in dambo (*Jelf 86*).

Spermacoce princeae (K.Schum.) Verdc. var. **mwinilungae** Verdc.[®]**Spermacoce samfya** Verdc.

Perennial herb in seasonally flooded flats, Lake Bangweulu, Kalasa Mukose (*Chabwela 029*).

Tapiphyllum cinerascens (Hiern) Robyns var. **laetum** (Robyns) Verdc.[®]

- Tapiphyllum rhodesiacum** (Tennant) Bridson
Shrub on granite rocks, Machipara Hill, Ishiba Ngandu, Chinsali (*Richards 10684*); Serenje District (*Fanshawe 1848*).

RUTACEAE

- Diphasiopsis whitei** Mendonça
Shrub in riparian forest, Kawambwa (*Fanshawe 4053*); Lunzuwa Valley, Mbala (*Richards 7021*).
- Vepris fanshawei** Mendonça
Shrub up to 1.5 m high, Chiengi (*Fanshawe 4735*).
- Vepris mendoncana** Mziray[®]
- Vepris termitaria** Mendonça
Evergreen shrub to 3 m high on termite mound, Kitwe (*Fanshawe 4336*); Mufulira (*Eyles 8148*).
- Vepris whitei** Mendonça
Evergreen small tree to 12 m high in riparian forest, 61 km south of Ishiba Ngandu at base of escarpment, Chinsali (*Angus 858*).

SAPINDACEAE

- Allophylus whitei** Exell
Shrub to 2 m high in thickets and in woodlands, 16 km from Choma on Pemba Rd. (*White 6619*); Malanda Forest Reserve, Livingstone (*White 7677*).
- Deinbollia fanshawei** Exell
Small shrub to 30 cm high in Kalahari woodland, Mongu (*Fanshawe 7048*); Senanga (*Fanshawe 6979*).
- Eriocoelum lawtonii** Exell
Small tree to 10 m high in riparian forest, Chishimba Falls, Kasama (*Lawton 721*); Kawambwa (*Angus 682*); Mwinilunga (*Holmes 1166*).

SCROPHULARIACEAE

- Alectra glandulosa** Philcox
Annual herb up to 14 cm high in dambos, 42 km from Mwinilunga on Solwezi Rd. (*Philcox, Pope, Chisumpa & Ngoma 10350*); Kambole Escarpment in Mbala District (*Richards 24520*); Kafue R. 11 km north of Chingola (*Robinson 3703*).
- Alectra pubescens** Philcox
Annual herb up to 20 cm in dambo, 55 km south-east of Mporokoso (*Robinson 5173*).
- Buchnera arenicola** R.E.Fr.
Perennial plant on Mbabala Island, Lake Bangweulu (*Fries 779*).
- Buchnera chisumpae** Philcox
Annual herb to 45 cm tall in sandy and rocky areas (*Philcox, Pope & Chisumpa 10219*).
- Buchnera ebracteolata** Philcox
Herbaceous plant up to 70 cm high in open grasslands and woodlands, Chilongowelo, Mbala District (*Richards 9627*).

- Buchnera laxiflora** Philcox
Annual herb up to 35–55 cm in dambos, banks of Kafue R. 11 km north of Chingola (*Robinson 3688*); near Kalambo Falls (*Robinson 594*); Mufumbwe (*Fanshawe 83*).
- Buchnera nervosa** Philcox
Annual herb to 26 cm high on sandy soil in open woodland, Ntumbachushi Falls, Kawambwa (*Richards 9313*).
- Buchnera pulcherrima** R.E.Fr.
Herbaceous plant up to 30 cm high along Luapula R. (*Fries 541*).
- Limnophila crassifolia** Philcox
Annual herb on river bank, Mwinilunga (*Fanshawe 412*).
- Lindernia bifolia** Skan
Slender herb up to 18 cm high in moist places, 2 km south of Solwezi (*Drummond & Rutherford-Smith 7107*); above Kalambo Falls, Mbala (*Phipps & Vesey-Fitzgerald 3080*).
- Micrargeriella aphylla** R.E.Fr.
Herb up to 55 cm tall in dambos, 16 km from Kawambwa on Mbereshi Rd. (*Richards 15448*); Kawendimusi–Lake Bangweulu Rd. (*Fries 790*).
- Stemodiopsis glandulosa** Philcox
Perennial herb up to 10 cm high on rocky places along Kapiri Mposhi Hills (*Allen 447*).
- Torenia involucreta** Philcox
Annual herb on stony places in woodland and along roadside, Chifubwa R. gorge, 3 km south of Solwezi (*Drummond & Rutherford-Smith 7138*).
- Torenia tenuifolia** Philcox
A slender annual herb up to 35 cm high in moist places of the dambos, 55 km south-east of Mporokoso (*Robinson 4665*); Chilongowelo, Mbala (*Richards 1690*).

STERCULIACEAE

- Dombeya brachystemma** Milne-Redh.
Scandent shrub in evergreen riverine forest, Mbulungu stream, Solwezi (*Milne-Redhead 657*).

TURNERACEAE

- Stapfiella zambesiensis** R.Fern.
Shrub in thicket and Mushitu margins, 8 km east of Kasama (*Robinson 4720*); Kawambwa (*Fanshawe 3581*).
- Streptopetalum luteoglandulosum** R.Fern.
Perennial herb on sandy soil in grassland, Kawambwa (*Fanshawe 4039*).

URTICACEAE

- Pouzolzia bracteosa** Friis
On alluvium soil near river bank, Luangwa Valley (*Abel 490*).

VITACEAE

Cissus crusei Wild & R.B.Drumm.

Herb to 40 cm high on termite mounds in miombo woodland, Mufulira (*Cruse 464*); south of Mantochi Farm, Mwinilunga (*Milne-Redhead 365*); Dundwa, Mazabuka (*White 7316*).

Cissus fanshawei Wild & R.B.Drumm.

Liane on termite mounds in miombo woodland, Kawambwa (*Fanshawe 3634*); Ndola (*Fanshawe 3048*).

Cyphostemma abercornense Wild & R.B.Drumm.

Prostrate herb on rocky along Mpulungu Rd. (*Richards 7294*).

Cyphostemma hermannioides Wild & R.B.Drumm.

Prostrate herb in grassland and woodland, Lunzua Valley (*Richards 3594*); Kabompo (*Drummond & Rutherford-Smith 7228*).

Cyphostemma nanellum (Gilg & R.E.Fr.) Desc. ex Wild & R.B.Drumm.

Herb to 25 cm high in woodland, Kalungwishi R. between Luinga and Mporokoso (*Fries 1132*).

Cyphostemma richardsiae Wild & R.B.Drumm.

Prostrate herb with glandular hairs in miombo woodland, along Kasama Rd., Mbala District (*Richards 3984*); 32 km north of Solwezi (*Drummond & Rutherford-Smith 7054*).

Cyphostemma rotundistipulatum Wild & R.B.Drumm.

Climbing herb in miombo woodland, Sunzu, Mbala (*Bock 175*).

Cyphostemma saxicola (Gilg & R.E.Fr.) Desc. ex Wild & R.B.Drumm.

Climber in dense woodland, Chilongwelo, Mbala (*Richards 2292*).

Cyphostemma tenuissimum (Gilg & R.E.Fr.) Desc. ex Wild & R.B.Drumm.

Scandent herb on rocky places, Kalungwishi R., Mporokoso (*Fries 1152*).

MONOCOTYLEDONAE

ASPHODELACEAE

Aloe luapulana L.C.Leach

Succulent plant on termite mounds and rocks, near Luongo R. above Musonda Falls, Mwense (*Williamson 1738*).

Aloe fimbrialis S.Carter

Succulent on termitaria in *Brachystegia* woodland (*Fanshawe 8938*).

COMMELINACEAE

Aneilema richardsiae Brenan[®]

CYPERACEAE

Actinoschoenus repens J.Raynal[®]

Ascolepis ampullaceal J.Raynal[®]

Carex robinsonii Podlech[®]

Cyperus altochrysocephalus Lye[®]

Cyperus kasamensis Podlech[®]

Cyperus mwinilungus Podlech var. **maior** Podlech[®]

Cyperus robinsonii Podlech[®]

Lipocarpa echinus J.Raynal[®]

Pycreus atrorubidus Nelmes[®]

Pycreus heterochrous Nelmes[®]

Pycreus poikilostachys Nelmes[®]

Scleria chlorocalyx E.A.Rob.[®]

Scleria polyrrhiza E.A.Rob.[®]

Scleria xerophila E.A.Rob.[®]

Scleria zambesica E.A.Rob.[®]

ERIOCAULACEAE

Syngonanthus exilis S.M.Phillips

A perennial herb recorded in wet places near exposed laterite, Kalenda Plain, Mwinilunga District (*Milne-Redhead 2653*).

Syngonanthus mwinilungensis S.M.Phillips

An annual plant occurring on damp sandy soil over rock surface near the Zambezi rapids, 7 km north of Kalene Mission (*Robinson 6586*).

Syngonanthus paleaceus S.M.Phillips

Annual herb found in dambo areas, 45 km north of Mansa (*Robinson 3735*).

HYPOXIDACEAE

Curculigo multiflora Zimudzi[®]

Curculigo pilosa (Schumach. & Thonn.) Engl.[®]

IRIDACEAE

Gladiolus serenjensis Goldblatt

Herb, on thin soils and rock crevices. Muchinga Escarpment, Serenje District.

Moraea brevifolia Goldblatt

Perennial herb 20–50 cm high found in dambos, Lumangwe Falls, Mporokoso (*Simon & Williamson 1483*); on Kambole-Mbala Rd. (*Richards 11901*).

ORCHIDACEAE

- Angraecopsis gassneri** G.Will.
Epiphyte 6 km north of Kalene Mission, Mwinilunga (*Williamson & Gassner 2448*).
- Angraecum geniculatum** G.Will.°
- Disperis katangensis** Summerh. var. *minor* Verdc.°
- Eulophia richardsiae** P.J.Cribb
Herb in woodland near Katenge Falls, Mbala (*Richards 10034*).
- Habenaria argentea** P.J.Cribb
Herb at Ntumbachushi Falls, Kawambwa (*Williamson & Simon 620*).
- Habenaria decurvirostris** Summerh.
Herb at woodland edge near Dodeca Bridge, Mwinilunga (*Milne-Redhead 3664*).
- Habenaria hebes** La Croix & P.J.Cribb
Herb at Ikelenge, Mwinilunga (*Robinson 3666*).
- Habenaria leucotricha** Schltr. var. *reticalcar* La Croix°
- Habenaria macrotidion** Summerh.
Herb at Mbereshi Mission, Kawambwa (*Richards 12318*).
- Habenaria orthocentron** P.J.Cribb
Herb in dambo above Lumangwe Falls (*Williamson & Drummond 1976*).
- Habenaria petraea** Renz & Grosvenor
Herb on rocks near Chowo Forest, Nyika Plateau, Isoka District (*Grosvenor & Renz 1104*).
- Habenaria tubifolia** La Croix & P.J.Cribb
Herb in *Uapaca* woodland, Mbala (*Richards 5063*).
- Habenaria velutina** Summerh.
Herb in grassland near stream bank, 10 km east of Kasama (*Robinson 4325*).
- Liparis molendinacea** G.Will.
Herb near Kalungwishi River above Lumangwe Falls, Mporokoso District (*Williamson 1244*).
- Polystachya asper** P.J.Cribb & Podz.
Herb 86.9 km from Mwinilunga on Kalene Rd. (*Holms 064*).
- Polystachya erythrocephala** Summerh.
Herb on rocks in deep gorge, 3 km south of Solwezi (*Milne-Redhead 504*).
- Polystachya moreauae** P.J.Cribb & Podz.°
- Pteroglossaspis corymbosa** G.Will.°
- Tridactyle translucens** Summerh.°

POACEAE

- Anadelphia scyphofera** Clayton
On lateritic soil, Kasanshi dambo, Mporokoso (*Robson 5171*); Kalenda Plain, Mwinilunga (*Robson 3598a*).
- Brachiaria pungipes** Clayton
Grass on sandy soils in grassland, 8 km east of Kabompo R., Solwezi (*Simon & Williamson 1865*).
- Brachyachne simonii** Kupicha & Cope
Grass on laterite pan, 3 km east of Mufumbwe (*Simon & Williamson 2068*).

- Digitaria bidactyla** Van der Veken
Grass in dambo on wet sand, Chishinga Ranch, Kawambwa (*Astle 1966*).
- Digitaria calcarata** Clayton
Grass on shallow soils overlying rocks, Zungu, Northern Province (*Verboon G338*).
- Digitaria minoriflora** Goetgh.
Grass on sandy soil, 25 km on Mansa–Chembe Rd. (*Antony-Smith 485*).
- Digitaria procurrens** Goetgh.
Grass on roadside in Mateshi thicket, Muzombwe, west side of Mweru–Wantipa (*Phipps & Vesey-Fitzgerald 3212*).
- Digitaria tenuifolia** Goetgh.
Grass on shallow depression on flat rocks, Mungwi, Kasama (*Richards 12679*).
- Digitaria sacculata** Clayton°
- Diheteropogon microterus** Clayton
Grass near Uningi Pans, Mbala (*Vesey-Fitzgerald 4123*).
- Eragrostis anacrantha** Cope°
- Eragrostis anacranthoides** Cope°
- Eragrostis astreptoclada** Cope
Grass on damp soil on river banks, Chishinga Ranch, Kawambwa (*Astle 900*); Kipoma Falls, Mporokoso (*Simon & Williamson 1096*).
- Eragrostis dentifera** Launert
Grass in seasonally waterlogged grassland, Lake Chila, Mbala (*McCallum Webster A39*).
- Eragrostis fimbrillata** Cope
Grass on dambo margins, Munshiwemba, Mkushi (*Storr 225*).
- Eragrostis lepidobasis** Cope
Grass in Kalenda Plain, west of Mantochi, Mwinilunga (*Simon & Williamson 1927*).
- Eragrostis mariae** Launert
Grass in peaty soil in dambo, Mbala (*McCallum Webster A143*).
- Eragrostis milnei** Launert & Cope
Grass in Kalendo Plain, west of Mantochi (*Simon & Williamson 1929*).
- Eragrostis oligostachya** Launert & Cope
Grass 7 km north of Kalene Hill, Mwinilunga (*Robinson 6568*).
- Eragrostis punctiglandulosa** Cope
Grass on heavy black soils, 1.5 km north of Lubwe, Namwala (*Van Rensburg 2543*).
- Eragrostis spicigera** Cope°
- Hyparrhenia anemopaegma** Clayton
Grass near Kapamba River in South Luangwa National Park, Mpika (*Astle 4759*).
- Lophacme parva** Renvoize & Clayton
Grass in dambos and moist places near river banks, Muchinga watershed, Ishiba Ngandu (*Greenway 5767*); 13 km south-east of Kanona (*Simon & Williamson 997*).
- Microchloa annua** (Kupicha & Cope) Cope
Grass at woodland edge on Kalahari sands, Namushakende, Mongu (*Hinds 206*).

Panicum bullockii Renvoize

Grass on arenaceous soils in woodland, Chishimba Falls, Kasama (*Drummond & Williamson 10092*).

Panicum phippsii Renvoize

Grass in shade of dense scrub, Mweru–Wantipa, Kaputa District (*Phipps & Vesey-Fitzgerald 3238*).

Panicum perangustatum Renvoize

Grass on seasonally wet places, Misamfu, Kasama (*Robinson 4293*).

Pogonarthria refracta Launert

Grass on Kalahari sand in woodland, 168 km NNW of Choma, Namwala District (*Robinson 2095*).

Near-endemics

DICOTYLEDONAE

ASTERACEAE

Brachythrix sonchoides Wild & G.V.Pope

Suffrutex on stream banks, fringe of evergreen forests and submontane grassland, restricted to the Nyika Plateau, Isoka District (*White 2756*).

Helichrysum hilliardiae Wild

Perennial herb occurring in secondary forests, swampy areas and along stream banks on Nyika Plateau (*Fanshawe 7313 & 7348*).

Pleiotaxis oxylepis C.Jeffrey[®]**Stenops helodes** B.Nord.

Slender fleshy annual of wet marshy grassland, Mbala District (*Richards 5790*). Also on Tanzanian side of border.

FABACEAE–PAPILIONOIDEAE

Aeschynomene tenuirama Baker var. **hebecarpa** Verdc.

Small shrub in submontane grassland, on Mafinga Mountain, Isoka District (*Chisumpa 593*).

Crotalaria arcuata Polhill

Erect annual plant up to 90 cm tall on sandy in miombo woodland, 40 km north of Mporokoso, Kaputa District and neighbouring Congo D.R. territory (*Goyder, Pope & Radcliffe-Smith 3044*); Mweru Wantipa, Kaputa District (*Whellan 1387*).

Kotschya africana Endl. var. **latifoliola** Verdc.[®]

GENTIANACEAE

Canscora kirkii N.E.Br.

In spray zone at edge of rainforest, Victoria Falls (*Hutchinson & Gillett 3439*). Also recorded on southern bank of Zambezi R. in Zimbabwe.

OXALIDACEAE

Oxalis chapmaniae Exell

Perennial herb to 10 cm high, restricted to Nyika Plateau. Common on roadside in montane grassland, road to Zambian Resthouse, Nyika National Park, Isoka District (*Phiri 3729*).

PROTEACEAE

Protea caffra Meisn. subsp. **mafangensis** Chisumpa & Brummitt

A near-endemic small tree, on rocky outcrops in montane grassland, Isoka District (*Chisumpa & Brummitt 1987*). Also recorded on Malawian side of Mafingi Mt.

RUBIACEAE

Fadogia tomentosa De Wild. var. **calvescens** (Verdc.) Verdc.[®]

SCROPHULARIACEAE

Selago thyrsoidea Baker var. **thyrsoidea**

Perennial herb up to 100 cm high in submontane grassland, Nyika National Park, Isoka District (*Fanshawe 9735*). Also occurs in Malawi territory on the Nyika Plateau.

MONOCOTYLEDONAE

CYPERACEAE

Lipocarpa robinsonii J.Raynal[®]
Schoenoplectus rhodesicus (Podlech) Lye[®]
Scleria delicatula Nelmes[®]

ORCHIDACEAE

Disa nyikensis H.P.Linder
 On Nyika Plateau. Also occurs on Malawian side of the Nyika (*Williamson 233*).
Disperis bifida P.J.Cribb
 In grassland near Zambian Resthouse, Nyika National Park (*Dowsett-Lemaire 347*).

Disperis breviloba Verdc.[®]
Habenaria pubidens P.J.Cribb.[®]
Platycoryne isoetifolia P.J.Cribb
 Occurs at Ishiba Ngndu, Chinsali (*Richards 10672*); and 30 km west of Nyika Plateau (*Williamson 1406*).
Platycoryne brevirostris Summerh.[®]
Platycoryne latipetala Summerh.[®]
Platycoryne micrantha Summerh.[®]
Polystachya mafingensis P.J.Cribb
 Occurs at north end of Mafinga Mountain in Zambian and Malawian border areas (*Trapnell 1819*).

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