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**TENTATIVE DETERMINATION KEY TO 600
TREES, SHRUBS AND CLIMBERS FROM
THE IVORY COAST, AFRICA, MAINLY
BASED ON CHARACTERS OF THE LIVING
BARK, BESIDES THE RHYTIDOME AND
THE LEAF**

IV. CLIMBERS

R. W. DEN OUTER

*Department of Botany,
Agricultural University, Wageningen, The Netherlands*

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1. INTRODUCTION AND ACKNOWLEDGEMENTS

All the species dealt with in this study were collected in the Ivory Coast, Africa by VERSTEEGH and DEN OUTER in 1969.

Although most collecting areas are near the main roads, a sufficient allround impression of the forest situation could be obtained because smaller or larger forested areas are often within reach of the road. Only those trees, shrubs and climbers which were flowering or fruiting in secondary forest-areas, mangrove and the savanna were examined. A few were collected in old plantations.

One of the reasons to make the collection was to prepare a determination key kept as simple as possible, based on field characters and particularly those of the bark. The total number of considered species is 593, viz.: 144 trees with a dbh of more than 25 cm, 180 trees with a dbh of less than 25 cm, 152 shrubs and 117 climbers. Part I deals with large trees, part II with small trees, part III with shrubs and part IV with climbers.

A list of all species considered in alphabetical order, according to family, is published in DEN OUTER (1972a).

It is strongly emphasized that the key can be used only when fresh bark is available. In a number of cases bark alone was not sufficient to distinguish the species and then also leaves were taken into account. There are always some old fallen leaves in the neighbourhood of the tree, or fresh ones can be obtained. It is recommended to check the short description mainly of the leaf, at the end of the key, after determination of a species has been made.

The glossary of terms used (DEN OUTER, 1972a), is based on those of ENDERT (1928), JACKSON (1953), LANJOUW (1968), DEN OUTER (1967), VOORHOEVE (1965) and WYATT-SMITH (1952).

The final determinations were made by MISS DR. G. J. H. AMSHOFF of the Department of Plant Taxonomy and Plant Geography of the Agricultural University, Wageningen, The Netherlands.

I feel indebted to CHR. VERSTEEGH of whom I learned very much, especially during the time in the Ivory Coast when we collected the material. Furthermore I am most grateful to Professor DR. A. L. STOFFERS of the Laboratory of General Botany at Wageningen for his critical and most valuable comments in reading this manuscript.

2. METHODS

Field characters from the standing tree were noted. From a suitable part of the bole, mostly at breast height, a piece of bark with the wood attached to it was cut out with an ax or cutlass. A transverse section of the bark was made with a sharp knife and the characters observed were noted.

Then a small portion of the collected material was kept in a fixation fluid, the biggest portion dry. Both pieces got the same number as the herbarium material. The latter has often been collected after cutting down the tree and later on sent for identification to the herbarium of the Department of Plant Taxonomy and Plant Geography at Wageningen, The Netherlands.

Duplicates were sent to the herbaria at Utrecht and Leiden, The Netherlands. All observations were registered in the field and include the following items: number, date, family, scientific name as far as known to us, collectors, local name, locality, habitat, frequency of occurrence, general form, dimensions (height and dbh);

flower: colour of bud and open flower;

fruit: colour of young and old fruit, general form, dimensions;

roots: buttresses, stilt-roots, aerial-roots, adventitious-roots; pneumatophores,

stem: general form, colour flakes, flutes, fissures, scales, grooves, rough, smooth;

dead bark: thickness, colour, lenticels;

living bark: thickness, colour tangential outside, colour tangential inside and colour cross section, discolouring, smell, dilatating rays, exudate;

heartwood: thickness, colour, discolouring;

sapwood: thickness, colour, discolouring;

crown: colour, density, shape, short leaf description;

striking characters.

These observations were cut in a punch card. With the help of these cards the determination key was prepared.

3. KEY IV, CLIMBERS

Tentative determination key based on characters of the living bark of 117 species, all climbers, from the Ivory Coast, Africa.

With a few exceptions the key is based on a strictly dichotomous principle; each number gives two alternatives a and b and each alternative either leads to a new number or to an identification.

- | | | |
|--------|---|--------------------------------|
| 1. a. | Exudate present | 2 |
| b. | Exudate absent | 23 |
| 2. a. | Exudate colourless | 3 |
| b. | Exudate reddish brown | 7 |
| c. | Exudate white | 11 |
| 3. a. | Slash discolouring wine-red or purple | <i>Illigera pentaphylla</i> |
| b. | Slash not discolouring | 4 |
| 4. a. | Colour slash brown | <i>Farquharia elliptica</i> |
| b. | Colour slash different | 5 |
| 5. a. | Colour slash white or grey | 6 |
| b. | Colour slash green | <i>Dioclea reflexa</i> |
| 6. a. | Colour slash white or grey with pink | <i>Millettia barteri</i> |
| b. | Colour slash white or grey without pink | <i>Mucuna flagellipes</i> |
| 7. a. | Slash discolouring | 8 |
| b. | Slash not discolouring | 9 |
| 8. a. | Slash discolouring red-brown to purple | <i>Strophanthus hispidus</i> |
| b. | Slash discolouring brown | <i>Macaranga beillei</i> |
| 9. a. | Colour slash red-brown or wine-red: | |
| | leaves alternate | <i>Cissus producta</i> |
| | leaves opposite | <i>Farquharia elliptica</i> |
| b. | Colour slash white or grey | 10 |
| 10. a. | Sapwood white with concentric wine-red rings | <i>Lonchocarpus cyanescens</i> |
| b. | Sapwood without concentric rings of different colour: | |
| | leaves compound | <i>Leptoderris macrothyrsa</i> |
| | leaves simple | <i>Manniophyton fulvum</i> |
| 11. a. | Slash pink, discolouring wine-red or purple: | |
| | leaves alternate | <i>Ficus kamerunensis</i> |
| | leaves opposite | <i>Landolphia micrantha</i> |
| b. | Slash not discolouring | 12 |
| 12. a. | Colour slash yellow | <i>Dictyophleba leonensis</i> |
| b. | Colour slash different | 13 |
| 13. a. | Colour slash green | 14 |
| b. | Colour slash different | 15 |
| 14. a. | Slash very fibrous | <i>Baissea leonensis</i> |

	b. Slash not fibrous	<i>Alafia barteri</i> <i>Alafia scandens</i>	
15.	a. Colour slash pink		16
	b. Colour slash different		17
16.	a. Colour sapwood pink-brown	<i>Ficus thonningii</i>	
	b. Colour sapwood white	<i>Ficus vogelii</i>	
17.	a. Colour slash brown or reddish brown		18
	b. Colour slash different		19
18.	a. Colour slash brown	<i>Isonema smeathmannii</i>	
	b. Colour slash reddish	<i>Baissea multiflora</i>	
19.	a. Colour slash white or grey		20
	b. Colour slash different		21
20.	a. Colour slash pink-white	<i>Chrysophyllum welwitschii</i>	
	b. Colour slash yellow-white	<i>Strophanthus sarmentosus</i>	
21.	a. Colour slash grey with orange spots; sapwood brown-grey	<i>Tacazzea apiculata</i>	
	b. Colour slash pink with red-brown spots; sapwood yellowish		22
22.	a. Midrib of leaf on the lower surface with brown hairs; leaf c. 4 cm wide	<i>Landolphia owariensis</i>	
	b. Midrib of leaf on the lower surface without brown hairs; leaf c. 6 cm wide	<i>Saba senegalensis</i>	
23.	a. Slash discolouring		24
	b. Slash not discolouring		64
24.	a. Slash discolouring green	<i>Mussaenda tenuifolia</i>	
	b. Slash discolouring different		25
25.	a. Slash discolouring orange	<i>Strychnos usambarensis</i>	
	b. Slash discolouring different		26
26.	a. Slash discolouring yellow	<i>Polycoryne fernandensis</i>	
	b. Slash discolouring different		27
27.	a. Slash discolouring wine-red or purple		28
	b. Slash discolouring brown		34
28.	a. Colour slash pink	<i>Cissus populnea</i>	
	b. Colour slash different		29
29.	a. Colour slash white or grey		30
	b. Colour slash different		31
30.	a. Leaves pinnati-nervate	<i>Combretum grandiflorum</i>	
	b. Leaves palmeti-nervate	<i>Dioscorea minutiflora</i>	
31.	a. Colour slash yellow		32
	b. Colour slash different		33
32.	a. Stem twisted	<i>Combretum dolichopetalum</i>	
	b. Stem not twisted	<i>Dichapetalum murinum</i>	
33.	a. Colour slash reddish brown or wine-red		68
	b. Colour slash white with wine-red spots	<i>Embelia rowlandii</i>	
34.	a. Colour slash pink		35
	b. Colour slash different		38

35. a.	Stem white-grey with grooves	<i>Allophyllus africanus</i> f. <i>chrysothrix</i>	
b.	Stem brown without grooves		36
36. a.	Leaves simple	<i>Grewia malacocarpa</i>	
b.	Leaves compound, unifoliolate		37
37. a.	Leaflet ovate	<i>Dalbergia ecastaphyllum</i>	
b.	Leaflet elliptic	<i>Baphiastrum confusum</i>	
38. a.	Colour slash white or grey		39
b.	Colour slash different		43
39. a.	Colour slash white or grey with pink	<i>Paullinea pinnata</i>	
b.	Colour slash white or grey without pink		40
40. a.	Stem reddish brown	<i>Uvaria afzelii</i>	
b.	Stem brown		41
41. a.	Leaves simple		42
b.	Leaves compound	<i>Spiropetalum reynoldsii</i>	
42. a.	Lower leaf surface rough, with hairs; stipulate		
		<i>Rutidea parviflora</i>	
b.	Lower leaf surface smooth, without hairs or very little hairs; estipulate	<i>Premna lucens</i>	
43. a.	Colour slash yellow		44
b.	Colour slash different		46
44. a.	Sapwood white or yellowish, discolouring brown		118
b.	Sapwood different		45
45. a.	Sapwood ochre yellow; stem with a rough surface		
		<i>Fagara lepieurii</i>	
b.	Sapwood yellowish; stem with a smooth surface		
		<i>Hugonia afzelii</i>	
46. a.	Colour slash green		47
b.	Colour slash different		50
47. a.	Stem white-green	<i>Hugonia platysepala</i>	
b.	Stem brown or black		48
48. a.	Stem undulated in outline	<i>Grewia carpinifolia</i>	
b.	Stem round to oval in outline		49
49. a.	Leaves simple	<i>Uvaria afzelii</i>	
b.	Leaves compound	<i>Dalbergia saxatilis</i> <i>Dalbergia oblongifolia</i>	
50. a.	Colour slash white with spots or stripes		51
b.	Colour slash brown		56
51. a.	Colour slash white with red-brown dilatating rays		52
b.	Colour slash white with spots		53
52. a.	Leaves not strongly hairy; 3-nerved from the base		
		<i>Grewia hookerana</i>	
b.	Leaves strongly hairy; pinnati-nervate	<i>Uvaria baumannii</i> <i>Uvaria doeringii</i>	
53. a.	Colour spots orange		54
b.	Colour spots different		55

54. a.	Leaves alternate	<i>Atroxima afzeliana</i>	
b.	Leaves opposite	<i>Mussaenda elegans</i>	
55. a.	Colour spots green	<i>Hippocratea velutina</i>	
b.	Colour spots brown or purple	<i>Sherbournia calycina</i>	
56. a.	Colour slash uniform brown		57
b.	Colour slash brown with other colours		62
57. a.	Colour sapwood white		58
b.	Colour sapwood different		59
58. a.	Leaves not strongly hairy; 3-nerved from the base	<i>Grewia hookerana</i>	
	<i>Grewia malacocarpa</i>	
b.	Leaves strongly hairy; pinnati-nervate	<i>Uvaria afzelii</i>	
59. a.	Colour sapwood yellow		60
b.	Colour sapwood brown		61
60. a.	Leaves compound, alternate	<i>Byrsocarpus coccineus</i>	
b.	Leaves simple, opposite	<i>Rytigynia canthioides</i>	
61. a.	Leaves alternate, c. 5 cm wide, apex caudate	<i>Artabotrys oliganthus</i>	
b.	Leaves opposite, c. 10 cm wide, apex acuminate	<i>Heteropteris leona</i>	
62. a.	Colour slash brown-yellow	<i>Dalbergia heudelotii</i>	
b.	Colour slash brown with white areas		63
63. a.	Interpetiolar stipules present, large	<i>Leptactina densiflora</i> var. <i>glabra</i>	
b.	Interpetiolar stipules absent	<i>Heteropteris leona</i>	
64. a.	Colour slash black		65
b.	Colour slash different		66
65. a.	Stem round or oval in outline; sapwood yellowish with concentric rings	<i>Tiliacora</i> cf. <i>dielsiana</i>	
b.	Stem undulated in outline; sapwood yellow without concentric rings	<i>Rhigiocarya racemifera</i>	
66. a.	Colour slash white with spots		67
b.	Colour slash different		69
67. a.	Stem scaly; sapwood white	<i>Hippocratea velutina</i>	
b.	Stem not scaly; sapwood yellowish	<i>Morinda morindoides</i>	
68. a.	Leaves alternate; spines absent; sapwood pale yellow to red-brown	<i>Dichapetalum</i> cf. <i>heudelotii</i>	
b.	Leaves opposite; spines present; sapwood white	<i>Combretum grandiflorum</i>	
69. a.	Colour slash pink		70
b.	Colour slash different		74
70. a.	Stem angular in outline; sapwood pink	<i>Phyllanthus muellerianus</i>	
b.	Stem round to oval in outline; sapwood not pink		71
71. a.	Colour sapwood yellowish without purple		72
b.	Colour sapwood yellowish, discolouring purple, or with concentric		

	purple rings	73
72.	a. Grooves present <i>Cissus populnea</i>	
	b. Grooves absent <i>Baphiastrum confusum</i>	
73.	a. Young branches, petiole and nerves, covered with dark brown hairs <i>Hippocratea iotricha</i>	
	b. Not covered with dark brown hairs <i>Salacia spec.</i> <i>Salacia cf. cerasifera</i>	
74.	a. Colour slash yellow	75
	b. Colour slash different	81
75.	a. Colour sapwood white	76
	b. Colour sapwood yellowish	77
76.	a. Leaves simple <i>Hippocratea spec.</i> <i>cf. Hippocratea unguiculata</i>	
	b. Leaves compound <i>Platysepalum hirsutum</i>	
77.	a. Stem undulated in outline <i>Cissus producta</i>	
	b. Stem round to oval in outline	78
78.	a. Leaves alternate <i>Capparis erythrocarpos</i>	
	b. Leaves opposite	79
79.	a. Leaves and young branches strongly hairy; spines present <i>Clerodendrum capitatum</i>	
	b. Leaves and young branches not strongly hairy; spines absent	80
80.	a. Petioles short, c. 0.2 cm; leaves c. 5 cm long; climb-hooks present <i>Strychnos usambarensis</i> <i>Strychnos camptoneura</i>	
	b. Petioles short, c. 0.4 cm; leaves c. 12 cm long; leaf-margin dentate; climb-hooks absent <i>Salacia camerunensis</i>	
	c. Petioles long, c. 1 cm; leaves c. 12 cm long; leaf-margin entire; climb-hooks absent <i>Morinda longiflora</i>	
81.	a. Colour slash green	82
	b. Colour slash different	93
82.	a. Colour sapwood green	83
	b. Colour sapwood different	86
83.	a. Leaves alternate	84
	b. Leaves opposite	85
84.	a. Leaves compound; leaflets palmati-lobed; tendrils absent <i>Neorautanenia pseudopachyrhiza</i>	
	b. Leaves simple, cordate in outline; tendrils present <i>Adenia lobata</i>	
85.	a. Petiole and lower leaf surface hairy <i>Sacosperma paniculatum</i>	
	b. Petiole and lower leaf surface not hairy <i>Canthium horizontale</i>	
86.	a. Colour sapwood yellow	87
	b. Colour sapwood different	91
87.	a. Sapwood with concentric purple rings <i>Lonchocarpus cyanescens</i>	
	b. Sapwood without concentric purple rings	88

88. a.	Leaves needle-like	<i>Asparagus spec.</i>	
	b. Leaves not needle-like		89
89. a.	Petioles and midrib of lower leaf surface hairy	<i>Dichapetalum filicaule</i>	
	b. Petioles and midrib of lower leaf surface not hairy		90
90. a.	Colour leaf dark green-brown	<i>Monodora crispata</i>	
	b. Colour leaf yellow-green	<i>Opilia celtidifolia</i>	
91. a.	Sapwood white		92
	b. Sapwood orange with yellow vessels	<i>Flabellaria paniculata</i>	
92. a.	Stem with spines	<i>Macaranga beillei</i>	
	b. Stem without spines	<i>Combretum cf. smeathmannii</i>	
93. a.	Colour slash white or grey		94
	b. Colour slash different		105
94. a.	Colour slash white with green		95
	b. Colour slash white with pink		96
	c. Colour slash uniform white or grey		98
95. a.	Stem with spines	<i>Caesalpinia bonduc</i>	
	b. Stem without spines	<i>Acridocarpus alternifolius</i>	
96. a.	Stem with rough surface	<i>Crossostemma laurifolia</i>	
	b. Stem with smooth surface		97
97. a.	Stem with grooves	<i>Griffonia simplicifolia</i>	
	b. Stem without grooves	<i>Acridocarpus alternifolius</i>	
98. a.	Leaves compound:		
	each leaf with one leaflet	<i>Griffonia simplicifolia</i>	
	each leaf with three leaflets	<i>Castanola paradoxa</i>	
	b. Leaves simple		99
99. a.	Leaves alternate		100
	b. Leaves opposite		102
100. a.	Leaf-blade rounded or cordate at the base		
	<i>Acridocarpus alternifolius</i>	
	b. Leaf-blade cuneate at the base		101
101. a.	Clear stipule-marks present	<i>Crossostemma laurifolia</i>	
	b. Clear stipule-marks absent	<i>Dichapetalum dictyospermum</i>	
102. a.	Leaf 3-nerved from the base		103
	b. Leaf pinnati-nervate		104
103. a.	Leaf broadest above the middle; climb-hooks present		
	<i>Strychnos afzelii</i>	
	b. Leaf broadest in the middle; climb-hooks absent		
	<i>Strychnos aculeata</i>	
104. a.	Leaf-blade cordate or rounded at the base		
	<i>Quisqualis indica</i>	
	b. Leaf-blade cuneate at the base	<i>Salacia nitida</i>	
105. a.	Colour slash reddish brown or brown-red		106
	b. Colour slash brown		112
106. a.	Colour sapwood yellowish		107

	b. Colour sapwood different	109
107.	a. Stem undulated in outline <i>Hippocratea vignei</i>	
	b. Stem round or oval in outline	108
108.	a. Leaves opposite <i>Sherbournia bignoniiflora</i>	
	b. Leaves alternate <i>Tetracera alnifolia</i>	
109.	a. Sapwood white or grey	110
	b. Sapwood pink; stem scaly, with grooves, undulate in outline <i>Phyllanthus muellerianus</i>	
110.	a. Colour stem black <i>Embelia spec.</i>	
	b. Colour stem brown	111
111.	a. Compound leaves pinnate, leaflets c. 12 cm long <i>Spiropetalum reynoldsii</i>	
	b. Compound leaves bipinnate, leaflets c. 1-2 cm long <i>Entada scelerata</i>	
112.	a. Colour sapwood white <i>Strychnos longicaudata</i>	
	b. Colour sapwood different	113
113.	a. Colour sapwood brown	114
	b. Colour sapwood yellowish	115
114.	a. Sapwood with radial white stripes <i>Pararistolochia mannii</i>	
	b. Sapwood without radial white stripes <i>Usteria guineensis</i>	
115.	a. Stem with grooves	116
	b. Stem without grooves	117
116.	a. Petiole rough, covered with brown hairs; tendrils present <i>Iodes liberica</i>	
	b. Petiole smooth, mealy, covered with very small grey-white hairs; tendrils absent <i>Hippocratea pallens</i>	
117.	a. Leaf broadest in the middle; c. 18 cm long <i>Salacia zenkeri</i>	
	b. Leaf broadest above the middle; c. 9 cm long <i>Oncinotis pontyi</i>	
118.	a. Leaf margin dentate or crenate; stipules large, pinnate <i>Hugonia afzelii</i>	
	b. Leaf margin entire; stipules small or absent <i>Dichapetalum cf. thomsonii</i>	

4. LEAF DESCRIPTIONS OF CLIMBERS

Leaf descriptions of climbers alphabetically arranged, according to genus and species. The species name is followed by the abbreviation of the family name between brackets and the herbarium number(s).

Acridocarpus alternifolius (Schum. et Thonn.) Ndz. (Malp.), 167, 199, 548

<i>Leaves</i>	simple, alternate; stipulate
blade	oblong, 8–12 cm long, 3–6 cm wide
base	cuneate, provided with two glands
margin	entire
apex	acuminate
petiole	c. 0.4 cm long
<i>Flowers</i>	orange-yellow
<i>Fruits</i>	a winged diachenium, wine-red

Adenia lobata (Jacq.) Engl. (Pass.), 262

<i>Leaves</i>	simple, alternate; stipulate
blade	cordate in outline, 10–15 cm long, 6–10 cm wide, thin, glabrous
base	cordate
margin	entire
apex	acute
nervature	palmati-nervate, sub-5-nerved from the base
petiole	c. 10 cm long, with 2 broad, semi-lunar, fleshy glands at the top
<i>Flowers</i>	yellow-green
<i>Branches</i>	with spines; tendrils in the axil of the leaves

Alafia barteri Oliv. (Apoc.), 222

<i>Leaves</i>	simple, opposite; interpetiolar ridge
blade	elliptic-oblong, c. 8 cm long, c. 4 cm wide, glabrous on both sides
base	cuneate to rounded
margin	entire
apex	acuminate
petiole	c. 0.5 cm
<i>Flowers</i>	white

Alafia scandens (Thonn.) De Wild. (Apoc.), 132

<i>Leaves</i>	simple, opposite; interpetiolar ridge
blade	elliptic, c. 9 cm long, c. 5 cm wide, glabrous on both sides, coriaceous

base	rounded
margin	entire
apex	bluntly acuminate
nervature	pinnati-nervate with 5-12 pairs of lateral nerves
petiole	0.3 cm long
<i>Flowers</i>	white

Allophyllus africanus P. Beauv. f. *chrysothrix* Radlk. (Sapind.), 245

<i>Leaves</i>	compound, trifoliolate, alternate; stipulate
<i>leaflets</i>	
blade	obovate, sessile, lower surface long spreading pilose, c. 7 cm long, c. 4 cm wide
base	cuneate
margin	dentate near the top
apex	acuminate to obtuse
petiole	c. 5 cm long, long spreading pilose
petiolule	0.1 cm long or absent
<i>Flowers</i>	white
<i>Branchlets</i>	long spreading pilose

Artabotrys oliganthus Engl. et Diels (Annon.), 666

<i>Leaves</i>	simple, alternate; estipulate
blade	elliptic to oblong, c. 12 cm long, c. 5 cm wide
base	rounded
margin	entire
apex	caudate
petiole	c. 0.3 cm long, thick
<i>Flowers</i>	light-green

Asparagus spec. (Lil.), 509

<i>Leaves</i>	simple, acerose, in a bundle of about 10 in the axil of a spine, c. 1.5 cm long
<i>Fruits</i>	orange
<i>Branches</i>	with spines

Atroxima afzeliana (Oliv.) Stapf (Polygal.), 554

<i>Leaves</i>	simple, alternate; estipulate
blade	elliptic to oblong, 7-12 cm long, 2.5-5.5 cm wide
base	cuneate
margin	entire
apex	acuminate
petiole	c. 0.7 cm long
<i>Flowers</i>	pink-white

Baissea leonensis Benth. (Apoc.), 564

<i>Leaves</i>	simple, opposite; estipulate
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blade	elliptic, sometimes obovate, glabrous, c. 7 cm long, c. 4 cm wide
base	cuneate
margin	entire
apex	acuminate
nervature	pinnati-nervate with 4-15 pairs of lateral nerves
petiole	0.5-1.5 cm long
<i>Flowers</i>	yellow
<i>Slash</i>	very fibrous

Baissea multiflora A. DC. (Apoc.), 455

<i>Leaves</i>	simple, opposite; estipulate
blade	elliptic to oblong, 5-13 cm long, 2-5 cm wide
base	subcordate to rounded
margin	entire
apex	acuminate
nervature	pinnati-nervate with 2-8 pairs of lateral nerves, frequently pilose on the midrib beneath and in the nerve axils
petiole	0.1-0.5 cm long
<i>Flowers</i>	tubus pink, limbus white
<i>Branches</i>	frequently puberulous

Baphiastrum confusum (Hutch. et Dalz.) Pellegr. (Pap.), 108, 551

<i>Leaves</i>	compound, unifoliolate, alternate; stipulate
<i>leaflets</i>	
blade	broadly elliptic, 7-18 cm long, 3-7 cm wide, reticulate and slightly rusty pubescent beneath
base	rounded
margin	entire
apex	acute to acuminate
nervature	pinnati-nervate with 6-8 pairs of lateral nerves
petiole	1.5-3 cm long, with 2 small stipels at the top, swollen on both ends, rusty pubescent
<i>Flowers</i>	flowerbud green with brown hairs; flower white with a yellow heart
<i>Fruits</i>	light-brown with orange-red seeds
<i>Branches</i>	pubescent when young

Byrsocarpus coccineus Schum. et Thonn. (Conn.), 238

<i>Leaves</i>	compound, imparipinnate, alternate; estipulate
<i>leaflets</i>	alternate
blade	oblong, 0.5-4.5 cm long, 0.3-2 cm wide; very flaccid when young
base	proximal side sharp cuneate, the distal side almost rounded

margin	entire
apex	obtuse to emarginate
petiole	0.2 cm long
<i>Fruits</i>	mature fruits red-orange

Caesalpinia bonduc (L.) Roxb. (Caes.), 290

<i>Leaves</i>	bipinnate, each pinna with 4-7 pairs of opposite leaflets; alternate; stipulate
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leaflets

blade	oblong-elliptic, 2-5 cm long, 1.5-2.5 cm wide, slightly pubescent
base	rounded
margin	entire
apex	bluntly acute
nervature	midrib excurrent
petiole	c. 10 cm long
rachis	with curved to erect prickles, like those on the branches

Flowers

<i>Fruits</i>	yellow
	flattish, very prickly

Calycobolus parviflorus (Mangenot) Heine (Conv.), 10

<i>Leaves</i>	simple, alternate; estipulate
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blade	elliptic, entirely glabrous
base	cuneate
margin	entire
apex	bluntly acute
petiole	c. 0.6 cm, glabrous

Flowers

<i>Fruits</i>	yellow-green
	small, yellow-white, enclosed by two thin, flat, outer sepals of different size

Canthium horizontale (Schum. et Thonn.) Hiern (Rub.), 569

<i>Leaves</i>	simple, opposite; stipules interpetiolar
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blade	oblong-elliptic, glabrous, 7-10 cm long, 4-6 cm wide
base	cuneate
margin	entire
apex	caudate
petiole	c. 0.5 cm long

Flowers

	light green
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Capparis erythrocarpos Isert (Capp.), 732

<i>Leaves</i>	simple, alternate; estipulate
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blade	oblong, but very variable in shape; glabrous
base	cuneate
margin	slightly dentate

apex	sharply acuminate to obtuse
petiole	c. 0.3 cm long, pilose; on both sides of the base of the petiole a curved prickle, placed on the branch
<i>Flowers</i>	green-yellow
<i>Branches</i>	slightly pubescent

Castanola paradoxa (Gilg) Schellenb. ex Hutch. et Dalz. (Conn.), 651

<i>Leaves</i>	compound, trifoliolate, alternate; estipulate
<i>leaflets</i>	
blade	elliptic-oblong, pitted on upper surface (sunken mucilageous cells), 8–16 cm long, 4–10 cm wide, glabrous
base	broadly cuneate
margin	entire
apex	acuminate
petiole	c. 8 cm long
petiolule	c. 0.5 cm long
<i>Flowers</i>	white
<i>Slash</i>	with a <i>Daucus</i> smell

Chrysophyllum welwitschii Engl. (Sapot.), 544, 572

<i>Leaves</i>	simple, alternate; estipulate
blade	oblong to lanceolate, glabrous, 5–11 cm long, 2–4 cm wide
base	rounded
margin	entire
apex	bluntly acuminate
nervature	pinnati-nervate with very numerous rather inconspicuous parallel lateral nerves; midrib pubescent
petiole	c. 0.3 cm long, red-brown, pubescent
<i>Flowers</i>	yellow-green
<i>Fruits</i>	young fruit green, 6 cm long, pentagonal in cross section
<i>Branches</i>	red-brown pubescent when young

Cissus populnea Guill. et Perr. (Vit.), 346, 473

<i>Leaves</i>	simple, alternate; stipulate; with tendrils or inflorescences opposite the leaves
blade	cordate in outline, c. 6 cm long, c. 10 cm wide, glabrous
base	cordate
margin	undulate or slightly dentate
apex	acute to shortly acuminate
petiole	c. 5 cm long
<i>Flowers</i>	green white
<i>Fruits</i>	green when young
Water streaming out of the stem	when cut

Cissus producta Afzel. (Vit.), 173, 376, 783

<i>Leaves</i>	simple, alternate; stipulate; with tendrils or inflorescences opposite the leaves
blade	oblong-lanceolate or elliptic-ovate, 8–14 cm long, 3–9 cm wide, glabrous
base	rounded
margin	markedly dentate
apex	acuminate
petiole	c. 1 cm or more, glabrous
<i>Flowers</i>	flowerbud brown-red; flower light red to brown with a red pistillum, encircled by a yellow disc
<i>Fruits</i>	black, ellipsoid, c. 1.8 cm long, c. 1 cm across

Clerodendrum capitatum (Willd.) Schum. et Thonn. (Verb.), 661

<i>Leaves</i>	simple, opposite; estipulate
blade	elliptic to ovate, 7–20 cm long, 4–10 cm wide, scabrous; lower surface pilose
base	rounded to slightly cordate
margin	entire
apex	acute to slightly acuminate
nervature	pinnati-nervate, with 3–6 pairs of lateral nerves
petiole	c. 1 cm long, covered with long brown hairs
<i>Flowers</i>	white
<i>Fruits</i>	mature fruit dark purple
<i>Branches</i>	with spines

Combretum dolichopetalum Engl. et Diels (Combr.), 733

<i>Leaves</i>	simple, opposite; estipulate
blade	oblong-elliptic to oblong-obovate, scabrous; up to 20 cm long and 12 cm wide
base	rounded
margin	entire
apex	acute to slightly acuminate
petiole	c. 0.7 cm long, pilose
<i>Flowers</i>	red, passing into white towards the top; bract yellowish
<i>Stem</i>	twisted

Combretum grandiflorum G. Don (Combr.), 204

<i>Leaves</i>	simple, opposite; estipulate
blade	oblong, 8–15 cm long, 4–9 cm wide, glabrous
base	slightly cuneate
margin	entire
apex	acuminate
petiole	c. 0.7 cm long, pilose
<i>Flowers</i>	red
<i>Stem</i>	with spines

Combretum cf. smeathmannii G. Don (Combr.), 220

<i>Leaves</i>	simple, opposite; stipulate
blade	oblong, c. 12 cm long, c. 6 cm wide, pubescent on lower surface
base	cuneate
margin	entire
apex	bluntly acute
petiole	c. 1.5 cm long
<i>Flowers</i>	white, with a nice smell

Crossostemma laurifolia Planch. ex Benth. (Pass.), 583, 721

<i>Leaves</i>	simple, alternate; stipulate; tendrils present in the axil of the leaves
blade	lanceolate to oblong, 7–11 cm long, 3–5 cm wide
base	cuneate
margin	slightly dentate
apex	long acute
petiole	c. 1.5 cm long
<i>Flowers</i>	dirty white with yellow anthers
<i>Fruits</i>	mature fruit orange, 6 cm long, cross section round with 6 ridges
<i>Stem</i>	with large brick-red lenticels

Dalbergia ecastaphyllum (L.) Taub. (Pap.), 156

<i>Leaves</i>	compound, unifoliolate, alternate; stipulate
<i>leaflets</i>	
blade	ovate to elliptic-oblong, 8–17 cm long, 4–7 cm wide, minutely pubescent beneath
base	rounded
margin	entire
apex	acute or short acuminate
petiole	c. 0.8 cm long, pubescent; upper half near the blade thicker
petiolule	0.3–0.5 cm long, pubescent
<i>Fruits</i>	pod

Dalbergia heudelotii Stapf (Pap.), 635

<i>Leaves</i>	compound, imparipinnate, with 3–7 alternate leaflets; alternate; stipulate
<i>leaflets</i>	
blade	elliptic, 10–15 cm long, 4–9 cm wide; terminal leaflet usually larger than the others; lower surface with minute hairs, appressed and pointing at one direction
base	rounded
margin	entire

apex	acuminate
petiole	c. 2 cm long
petiolule	c. 0.6 cm long
rachis	c. 6 cm long
<i>Flowers</i>	white

***Dalbergia oblongifolia* G. Don (Pap.), 726**

Leaves compound, imparipinnate, with often 9 alternate leaflets; alternate; stipulate

leaflets

blade variable in shape and size, broadly ovate to elliptic-oblong, 2–6 cm long, 1–3 cm wide

base rounded

margin entire

apex bluntly acute

petiole c. 1 cm long, pubescent

petiolule c. 0.2 cm long, pubescent

rachis c. 4 cm long, pubescent

Flowers white

***Dalbergia saxatilis* Hook. f. (Pap.), 169**

Leaves compound, imparipinnate, alternate; stipulate

leaflets 9–13 alternate or subopposite leaflets (4–6 pairs), larger near the top blade oblong, 2.5–6 cm long, 1.5–3.5 cm wide; scarcely pubescent beneath

base rounded

margin entire

apex obtuse to emarginate

petiole c. 2 cm long

petiolule c. 0.2 cm long, pubescent

rachis 3–10 cm long

Flowers white

Fruits oblong, stipulate, 8–13 cm long, 3–4 cm wide

***Dichapetalum dictyospermum* Bret. (Dich.), 720**

Leaves simple, alternate; stipulate

blade lanceolate, c. 9 cm long, c. 3 cm wide, glabrous

base cuneate

margin entire

apex acuminate

petiole c. 0.7 cm long, glabrous

Flowers yellow, with an unpleasant smell

Stem with only a few lenticels

Dichapetalum filicaule Bret. (Dich.), 561

<i>Leaves</i>	simple, alternate; stipulate
blade	lanceolate, c. 8 cm long, c. 2.5 cm wide
base	rounded
margin	entire
apex	acuminate
nervature	midrib pubescent on lower leaf surface
petiole	c. 0.3 cm long, pubescent
<i>Fruits</i>	orange
<i>Branches</i>	pubescent when young

Dichapetalum cf. heudelotii (Planch. ex Oliv.) Baill. (Dich.), 265

<i>Leaves</i>	simple, alternate; stipulate
blade	elliptic, sometimes obovate, 7-14 cm long, 2.5-7 cm wide
base	rounded to subauriculate
margin	very slightly undulated
apex	acuminate
nervature	midrib and nerves pubescent on lower leaf surface; glands in the axils of nerves and midrib
petiole	c. 0.3 cm long, pubescent
<i>Flowers</i>	white
<i>Fruits</i>	mature fruit green, c. 1.5 cm long

Dichapetalum murinum Bret. (Dich.), 727

<i>Leaves</i>	simple, alternate, stipulate
blade	lanceolate to oblong, lower surface grey pubescent, upper surface glabrous; c. 8 cm long, c. 3 cm wide
base	subauriculate
margin	entire
apex	acuminate
petiole	c. 0.2 cm long, grey pubescent
<i>Fruits</i>	dark orange
<i>Branches</i>	young branches grey pubescent; stem with a few vertical rows of lenticels

Dichapetalum cf. murinum Bret. (Dich.), 120

<i>Leaves</i>	simple, alternate; stipulate
blade	oblong, lower surface grey pubescent, upper surface glabrous, dark green; c. 8 cm long, c. 4 cm wide
base	cuneate
margin	entire
apex	acuminate
petiole	c. 0.5 cm long, grey pubescent
<i>Flowers</i>	white

Branches young branches pubescent; stem with vertical rows of white, globular lenticels

Dichapetalum cf. thomsonii (Oliv.) Engl. (Dich.), 179, 235, 383

Leaves simple, alternate; stipulate
blade oblong-lanceolate, up to 18 cm long, 2-7 cm wide, glabrous
base cuneate
margin entire
apex bluntly acuminate
petiole c. 0.6 cm long, glabrous
Flowers white

Dictyophleba leonensis (Stapf) Pichon (Apoc.), 231

Leaves simple, opposite; interpetiolar ridge
blade broadly elliptic to obovate, 7-22 long, 5-12 cm wide; lower surface of the leaf pubescent
base rounded to subcordate
margin entire
apex acuminate to apiculate
petiole c. 0.5 cm long, pilose
Flowers flowerbud white with red stripes

Dioclea reflexa Hook. f. (Pap.), 639

Leaves compound, trifoliolate, alternate; stipules triangular, pilose; stipels liliform, pilose

leaflets

blade ovate-elliptic, up to 15 cm long, 10 cm wide, thinly pilose
base rounded
margin entire
apex abruptly acuminate
petiole c. 7 cm long, pilose
petiolule c. 0.5 cm long, pilose
Flowers purple, with a nice smell

Dioscorea minutiflora Engle (Diosc.), 260

Leaves simple, opposite; stipulate
blade ovate, c. 5 cm long, c. 4 cm wide, glabrous
base rounded
margin entire
apex caudate
nervature curvi-nervate
petiole c. 1.5 cm long

Fruits mature fruit black; a 3-pointed star in cross section

Water streaming out of the stem when cut

***Embelia rowlandii* Gilg (Myrs.) 338**

<i>Leaves</i>	simple, alternate; estipulate
blade	obovate to elliptic, 6–13 cm long, 3–7 cm wide; lower surface slightly pubescent, without visible black dots
base	cuneate
margin	entire
apex	obtuse or very shortly apiculate
nervature	pinnati-nervate; midrib pubescent
petiole	c. 1.5 cm long, pubescent
<i>Flowers</i>	white
<i>Fruits</i>	grey with a many-pointed, wine-red star at the top
<i>Stem</i>	with a few spines

***Embelia spec.* (Myrs.), 502**

<i>Leaves</i>	simple, alternate; estipulate
blade	obovate to elliptic, c. 9 cm long, c. 5 cm wide, with visible black dots
base	cuneate
margin	entire
apex	obtuse
nervature	midrib pubescent
petiole	c. 1 cm long, pubescent
<i>Fruits</i>	pink to white

***Entada scelerata* A. Chev. (Mim.), 604**

<i>Leaves</i>	compound, bipinnate, paripinnate with 6–10 pairs of pinnae, each pinna with 10–12 pairs of leaflets; alternate; stipulate
<i>leaflets</i>	
blade	elliptic to oblong, 1–1.5 cm long, 0.5–0.7 cm wide
base	cuneate
margin	entire
apex	rounded
petiole	c. 4 cm long
petiolule	c. 0.1 cm long
rachis	c. 9 cm long
<i>Flowers</i>	white-yellow
<i>Stem</i>	with spines; water streaming out of the cut; branches, petiole, and rachis densely armed with recurved prickles, slightly pilose

***Fagara leprieurii* (Guill. et Perr.) Engl. (Rut.), 271**

<i>Leaves</i>	compound, imparipinnate with 9–21 opposite to sub-opposite leaflets; alternate; estipulate
<i>leaflets</i>	

blade	oblong to lanceolate, covered with translucent glands, 3–13 cm long, 2–5 cm wide
base	cuneate
margin	slightly crenate
apex	long acuminate
petiole	c. 5 cm long
petiolule	c. 0.2 cm long
rachis	c. 17 cm long, with prickles
<i>Flowers</i>	green-brown
<i>Fruits</i>	young fruits spotted brown, \varnothing 4 cm, with shining black seeds
<i>Branches</i>	covered with prickles, like the petiole and the main stem

Farquharia elliptica Stapf (Apoc.), 600

<i>Leaves</i>	simple, opposite; interpetiolar stipules
blade	oblong, glabrous, 6–12 cm long, 3–6 cm wide
base	rounded
margin	entire
apex	acuminate
petiole	c. 0.7 cm long, glabrous, with supra-axillary glands
<i>Fruits</i>	40 cm long, covered with red-brown hairs

Ficus kamerunensis Warb. ex Mildbr. et Burret (Morac.), 609

<i>Leaves</i>	simple, alternate; stipulate
blade	narrowly rhombic-elliptic, 4–9 cm long, 2–3 cm wide
base	cuneate
margin	entire
apex	acute to acuminate
nervature	pinnati-nervate
petiole	c. 0.8 cm long
<i>Fruits</i>	yellow to red-brown with red spots
<i>Stem</i>	strangler

Ficus thonningii Bl. (Morac.), 624

<i>Leaves</i>	simple, alternate; stipulate
blade	elliptic to oblong, 5–14 cm long, 2–7 cm wide
base	rounded
margin	entire
apex	obtuse
nervature	pinnati-nervate
petiole	1.2–7.5 cm long
<i>Fruits</i>	yellow-green with orange-red spots, born directly in the axils of the leaves on the branches which are usually yellow-brown when dry
<i>Stem</i>	with black lenticels

Ficus vogelii (Miq.) Miq. (Morac.), 611

<i>Leaves</i>	simple, alternate; stipulate
blade	oblong to obovate, 9–35 cm long, 4–16 cm wide; coriaceous
base	rounded to shallowly cordate
margin	entire
apex	acute to short acuminate
nervature	pinnati-nervate with 5–6 main lateral nerves on each side of the midrib, ascending, looped, prominent beneath
petiole	2–10 cm long, stout
<i>Fruits</i>	yellow-green
<i>Stem</i>	strangler

Flabellaria paniculata Cav. (Malp.), 196, 494

<i>Leaves</i>	simple, opposite; estipulate
blade	ovate, suborbicular or elliptic, 7–14 cm long, up to 10 cm wide, glabrous above, appressed silky-tomentose beneath
base	rounded to cuneate
margin	entire
apex	obtuse to subacute
nervature	pinnati-nervate with about 4–5 pairs of lateral nerves
petiole	c. 2 cm long, silky tomentose like the young branches
<i>Flowers</i>	white
<i>Fruits</i>	grey to brown
<i>Stem</i>	many globular, light brown lenticels

Grewia carpinifolia Juss. (Til.), 289

<i>Leaves</i>	simple, alternate; stipulate
blade	oblong-ovate to oblong-obovate, 5–14 cm long, 2–7 cm wide, minute pubescent beneath
base	rounded
margin	serrate
apex	acuminate
nervature	3-nerved from the base
petiole	c. 0.3 cm long
<i>Fruits</i>	yellow brown

Grewia hookerana Exell et Mend. (Til.), 119, 662

<i>Leaves</i>	simple, alternate; stipulate
blade	oblong to lanceolate, 6–12 cm long, 2.5 to 5 cm wide, lower surface shortly tomentellous with brown scaly hairs
base	rounded

margin	entire
apex	sharp acuminate
nervature	3-nerved from the base
petiole	c. 0.5 cm long, shortly tomentellous with brown scaly hairs, like the branchlets
<i>Flowers</i>	yellow
<i>Fruits</i>	pear-shaped, 2 cm long, green with black-brown hairs in spots

***Grewia malacocarpa* Mast. (Til.), 264, 708**

<i>Leaves</i>	simple, alternate; stipules linear-subulate
blade	oblong-elliptic, 6–14 cm long, 2–6 cm wide, glabrous above, lower surface hidden by a soft, grey, felt of hoary indumentum
base	rounded
margin	entire
apex	acuminate
nervature	3-nerved from the base
petiole	c. 0.5 cm long, pilose
<i>Flowers</i>	pink with a red centre
<i>Fruits</i>	young fruit olive-green, rough

***Griffonia simplicifolia* (Vahl ex DC.) Baill. (Caes.), 241, 614**

<i>Leaves</i>	compound, unifoliolate, alternate; stipulate
<i>leaflets</i>	
blade	oblong, 6–12 cm long, 3–6 cm wide, glabrous
base	rounded
margin	entire
apex	rounded or acuminate
nervature	prominently 3-nerved from near the base
petiole	c. 0.5 cm long
<i>Flowers</i>	flowerbud purple-grey, flower green
<i>Fruits</i>	black, 6 cm long, 3 cm across

***Heteropteris leona* (Cav.) Exell (Malp.), 634, 550**

<i>Leaves</i>	simple, opposite; estipulate
blade	oblong-elliptic, 12–20 cm long, 5–8 cm wide, slightly pubescent beneath
base	rounded
margin	entire
apex	caudate
petiole	c. 1 cm long, thicker at base
<i>Flowers</i>	yellow
<i>Fruits</i>	brown-red

Hippocratea iotricha Loes. (Hipp.), 229

<i>Leaves</i>	simple, opposite; estipulate
blade	obovate to elliptic, c. 7 cm long, 5 cm wide, upper surface glabrous, lower surface pubescent
base	rounded
margin	entire
apex	obtuse
nervature	midrib and nerves densely red-brown, tomentose-pubescent
petiole	c. 0.5 cm long, densely red-brown, tomentose-pubescent, like the branches
<i>Flowers</i>	white
<i>Fruits</i>	mature fruit densely covered with dark brown hairs

Hippocratea pallens Planch. ex Oliv. (Hipp.), 474

<i>Leaves</i>	simple, opposite to subopposite; estipulate
blade	elliptic, smooth, powdered, c. 9 cm long, 5 cm wide
base	cuneate
margin	entire
apex	short, bluntly acuminate
petiole	c. 1 cm long
<i>Flowers</i>	green-brown
<i>Branches</i>	mealy when young

Hippocratea spec. (Hipp.), 599

<i>Leaves</i>	simple, opposite; estipulate
blade	elliptic, c. 11 cm long, 7 cm wide, glabrous
base	cuneate
margin	dentate to serrate
apex	bluntly acuminate
petiole	c. 0.7 cm long
<i>Fruits</i>	green-grey, 3 carpels, apocarp, like a 3-pointed star

cf. **Hippocratea unguiculata** (Loes.) M. Hallé (Hipp.), 180

<i>Leaves</i>	simple, opposite; estipulate
blade	obovate to elliptic-oblong, c. 13 cm long, c. 7 cm wide, coriaceous, glabrous
base	cuneate
margin	entire
apex	acuminate
petiole	c. 1 cm long
<i>Fruits</i>	green, 3 carpels, apocarp, like a 3-pointed star

Hippocratea velutina Afzel. (Hipp.), 605, 724

<i>Leaves</i>	simple, opposite; estipulate
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blade	elliptic, c. 10 cm long, c. 6 cm wide; especially the lower surface red-brown tomentose-pubescent, like the twigs and petioles
base	rounded
margin	entire
apex	acuminate
petiole	c. 0.7 cm long, red-brown, tomentose-pubescent
<i>Flowers</i>	brown-yellow
<i>Fruits</i>	dark brown, 3 carpels, apocarp, like a 3-pointed star

Hippocratea vignei Hoyle (Hipp.), 345

<i>Leaves</i>	simple, opposite; stipulate
blade	orbicular to elliptic, c. 7 cm long, c. 6 cm wide, glabrous
base	rounded
margin	crenate
apex	acuminate
petiole	c. 1 cm long
<i>Flowers</i>	yellow-white

Hugonia afzelii R. Br. ex Planch. (Lin.), 375

<i>Leaves</i>	simple, alternate; stipules deeply divided, c. 1 cm long
blade	obovate or oblong-elliptic, 8–18 cm long, 3–9 cm wide, lower surface densely white-tomentose
base	rounded
margin	dentate-crenate
apex	acute to acuminate
petiole	c. 0.5 cm long, densely tomentose, like the branches
<i>Stem</i>	with curved hooks

Hugonia platysepala Welw. ex Oliv. (Lin.), 1, 555, 751

<i>Leaves</i>	simple, alternate; stipulate
blade	lanceolate, 7–14 cm long, 3–7 cm wide
base	cuneate
margin	entire
apex	subacute to obtuse
nervature	pinnati-nervate, midrib hairy
petiole	c. 0.5 cm long, hairy
<i>Branches</i>	hairy when young

Illigera pentaphylla Welw. (Hern.), 184, 588

<i>Leaves</i>	compound, digitate, usually quinquefoliate, alternate; estipulate
<i>leaflets</i>	
blade	obovate to oblong-elliptic, 5–8 cm long, 3.5–6 cm wide
base	rounded or subcordate

margin	entire
apex	bluntly acuminate
nervature	2 strong lateral nerves on each side of the midrib
petiole	up to 10 cm long
petiolule	c. 2 cm long
<i>Flowers</i>	white

Iodes liberica Stapf (Icac.), 269

<i>Leaves</i>	simple, opposite or subopposite; estipulate
blade	elliptic, c. 8 cm long, c. 5 cm wide, lower surface scabrous
base	rounded
margin	entire
apex	acute to acuminate
petiole	c. 0.5 cm long, pilose, with horizontal ridges
<i>Flowers</i>	yellow-green
<i>Branches</i>	pilose when young; extra-axillary tendrils

Ipomoea mauritiana Jacq. (Conv.), 4

<i>Leaves</i>	simple, alternate; estipulate
blade	palmatifid or palmately-lobed, usually 5-7-lobed, c. 13 cm long, c. 15 cm wide
base	cordate
margin	entire
apex	apex of lobes acuminate
nervature	palmately-nervate
petiole	c. 10 cm long with small spines
<i>Flowers</i>	purple
<i>Stem</i>	with spines, rough

Isonema smeathmannii Roem. et Schult. (Apoc.), 111, 152

<i>Leaves</i>	simple, opposite; estipulate
blade	elliptic to oblong or obovate, 4-11 cm long, 2-5 cm wide, pilose beneath, especially on the nerves
base	rounded
margin	entire
apex	acute to slightly acuminate
nervature	pinnately-nervate, with 5-7 pairs of lateral nerves
petiole	c. 0.3 cm long, pilose
<i>Flowers</i>	purple-brown
<i>Fruits</i>	mature fruit green, covered with brown hairs

Landolphia micrantha (A. Chev.) Pichon (Apoc.), 663

<i>Leaves</i>	simple, opposite; interpetiolar ridge
blade	elliptic to oblong, 5-17 cm long, 2-6 cm wide, glabrous

base	cuneate
margin	entire
apex	acuminate
nervature	pinnati-nervate, with 5–11 pairs of lateral nerves
petiole	c. 0.5 cm long, glabrous
<i>Fruits</i>	yellow-green with brown warts

Landolphia owariensis P. Beauv. (Apoc.), 319

<i>Leaves</i>	simple, opposite; interpetiolar ridge
blade	oblong to lanceolate, 5–25 cm long, 2–12 cm wide
base	cuneate
margin	entire
apex	acuminate
nervature	pinnati-nervate with 6–20 pairs of lateral nerves
petiole	c. 0.5 cm long, pilose
<i>Flowers</i>	white
<i>Branches</i>	pubescent when young

Leptactina densiflora (Hook. f.) var. ***glabra*** Hutch. et Dalz. (Rub.), 239

<i>Leaves</i>	simple, opposite; c. 2 cm long interpetiolar stipules
blade	broadly elliptic, 7–20 cm long, 3–11 cm wide
base	cuneate
margin	entire
apex	acute to more or less acuminate
nervature	short hairs in the axils of midrib and the lateral nerves
petiole	c. 1.5 cm long

Leptoderris macrothyrsa Dunn (Pap.), 725

<i>Leaves</i>	compound, imparipinnate with 2–4 pairs of opposite leaflets; alternate; stipulate
<i>leaflets</i>	
blade	elliptic to obovate-oblong, c. 13 cm long, 6 cm wide
base	rounded
margin	entire
apex	rounded, emarginate or apiculate
nervature	pinnati-nervate with 11–16 pairs of lateral nerves
petiole	c. 6 cm long
petiolule	c. 0.8 cm long
rachis	c. 7 cm long
<i>Flowers</i>	white

Lonchocarpus cyanescens (Schum. et Thonn.) Benth. (Pap.), 312, 463, 489

<i>Leaves</i>	compound, imparipinnate with 3–5 pairs of opposite leaflets; alternate; stipulate
<i>leaflets</i>	terminal leaflet often fallen

blade	ovate or elliptic, up to 16 cm long and 8 cm wide, glabrous
base	rounded
margin	entire
apex	shortly acuminate
petiole	c. 6 cm long
petiolule	c. 0.5 cm long
rachis	c. 6 cm long
<i>Flowers</i>	white with blue and purple parts

Macaranga beillei Prain (Euph.), 83, 372

<i>Leaves</i>	simple, alternate; stipules lanceolate, c. 1.5 cm long
blade	cordate in outline or palmati-lobed with 3 lobes, 10–17 cm long, 11–17 cm wide; on the lower surface many small glands
base	cordate
margin	dentate
apex	caudate
nervature	palmati-nervate, 5–9 nerved; midrib and main nerves beneath with many long spreading hairs
petiole	c. 13 cm long
<i>Flowers</i>	orange
<i>Fruits</i>	mature fruit red
<i>Stem</i>	with many spines; slash smells like cucumber

Manniophyton fulvum M.A. (Euph.), 740

<i>Leaves</i>	simple, alternate; stipulate
blade	polymorphous, often ovate or more or less 2–3-lobed up to 25 cm long and wide; very scabrous-setose with stellate hairs on both surfaces
base	cordate
margin	entire
apex	acutely acuminate to apiculate
nervature	3-nerved from the base
petiole	up to 12 cm long, scabrous
<i>Fruits</i>	green-yellow
<i>Branches</i>	scabrous with stellate hairs

Millettia barteri (Benth.) Dunn (Pap.), 91, 700

<i>Leaves</i>	compound, imparipinnate with opposite leaflets, never trifoliolate; alternate; stipulate
<i>leaflets</i>	
blade	obovate, 9–15 cm long, 4–8 cm wide
base	rounded
margin	entire

apex	caudate
petiole	c. 7 cm long
petiolule	c. 0.7 cm long
<i>Flowers</i>	purple or violet

Monodora crispata Engl. et Diels (Annon.), 100, 567

<i>Leaves</i>	simple, alternate; estipulate
blade	obovate to oblong, c. 9 cm long, c. 4 cm wide
base	rounded
margin	entire
apex	acuminate to acute
petiole	c. 0.3 cm long
<i>Flowers</i>	white with black-brown spots
<i>Fruits</i>	c. 15 cm long, c. 5 cm across, cross section undulate; with a grey wax bloom

Morinda longiflora G. Don (Rub.), 94, 160

<i>Leaves</i>	simple, opposite; interpetiolar stipules
blade	oblong-elliptic, 6–12 cm long, 2–7 cm wide, glabrous
base	cuneate
margin	entire
apex	acuminate
petiole	c. 1.5 cm long
<i>Flowers</i>	flowerbud green-yellow, peduncles in pairs
<i>Fruits</i>	green, globular with conrescences
<i>Branching</i>	typical; c. 0.4 cm above the interpetiolar stipule and in the leaf-axil

Morinda morindoides (Baker) Milne-Redh. (Rub.), 192, 559

<i>Leaves</i>	simple, opposite; interpetiolar stipules
blade	elliptic or oblong-elliptic, 6–15 cm long, 3–8 cm wide, glabrous
base	cuneate
margin	entire
apex	acuminate
petiole	c. 0.7 cm long
<i>Flowers</i>	white-green, peduncles solitary
<i>Fruits</i>	orange-yellow

Mucuna flagellipes T. Vogel ex Hook. f. (Pap.), 622A

<i>Leaves</i>	compound, trifoliolate; stipulate
<i>leaflets</i>	
blade	obliquely ovate, up to 15 cm long and 8 cm wide, glabrous or very sparsely pilose beneath
base	rounded

margin	entire
apex	abruptly acuminate
nervature	3-nerved from the base
petiole	c. 8 cm long
petiolule	c. 0.8 cm long
<i>Flowers</i>	flowerbud wax-white, flowers wax-white to pink, hanging; rachis of inflorescence very zigzag
<i>Fruits</i>	green-brown, hairy, very itching

Mussaenda elegans Schum. et Thonn. (Rub.), 236

<i>Leaves</i>	simple, opposite; interpetiolar stipules
blade	elliptic to obovate-elliptic, 7-11 cm long, 3-6 cm wide, glabrous
base	acute
margin	entire
apex	acuminate
petiole	c. 1.5 cm long, slightly pubescent
<i>Flowers</i>	orange-red
<i>Fruits</i>	young fruit green with light green spots

Mussaenda tenuifolia Benth. (Rub.), 637

<i>Leaves</i>	simple, opposite; interpetiolar stipules pubescent
blade	elliptic to obovate, upper surface glabrous, lower surface pilose, scabrous, 9-12 cm long, 5-8 cm wide
base	rounded to acute
margin	entire
apex	apiculate
petiole	c. 0.5 cm long, pubescent
<i>Flowers</i>	yellow, with a large white lure leaf

Neorautanenia pseudopachyrhiza (Harms) Milne-Redh. (Pap.), 514

<i>Leaves</i>	compound, trifoliolate, alternate; stipules lanceolate, c. 0.6 cm long; stipels spreading, linear-subulate, c. 0.4 cm long
<i>leaflets</i>	
blade	irregular palmati-lobed, very broadly ovate, thinly pubescent beneath
base	rounded
margin	lobbed
apex	apex of lobes acute
petiole	c. 8 cm long, pubescent
petiolule	c. 0.6 cm long, pubescent
<i>Flowers</i>	purple blue

Oncinotis pontyi Dubard (Apoc.), 657

<i>Leaves</i>	simple, opposite; estipulate
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blade	spatulate, glabrous, c. 8 cm long, c. 3 cm wide; glands present in the axils of midrib and nerves
base	cuneate
margin	entire
apex	rounded to acuminate
petiole	c. 1 cm long
<i>Fruits</i>	green with a brown bloom, c. 30 cm long

***Opilia celtidifolia* (Guill. et Perr.) Endl. ex Walp. (Opil.), 424**

<i>Leaves</i>	simple, alternate; estipulate
blade	elliptic to oblong, 6–12 cm long, 3–5 cm wide, glabrous, light green
base	cuneate
margin	entire
apex	acutely acuminate
nervature	pinnati-nervate with about 5 pairs of prominent lateral nerves
petiole	c. 0.5 cm long
<i>Flowers</i>	yellow-green
<i>Fruits</i>	orange, ellipsoid, 2–2.5 cm long, finely puberulous

***Pararistolochia mannii* (Hook. f.) Keay (Arist.), 699**

<i>Leaves</i>	simple, alternate; estipulate
blade	palmatifid to palmatifid, with 3–5 lobes, glabrous
base	deeply cordate, auricles sometimes overlapping
margin	entire
apex	apex of lobes obtuse to cuneate
petiole	c. 7 cm long
<i>Flowers</i>	brown-yellow
<i>Fruits</i>	brown

***Paullinia pinnata* L. (Sapind.), 106, 526A**

<i>Leaves</i>	compound, imparipinnate with 2 pairs of opposite leaflets; alternate; stipulate
<i>leaflets</i>	
blade	obovate to elliptic, 3–10 cm long, 2–6 cm wide
base	rounded to cuneate
margin	remotely dentate
apex	bluntly acute
nervature	pinnati-nervate; hairy pits in the axils of the nerves
petiole	c. 3 cm long, winged
petiolule	c. 0.2 cm long, pubescent
rachis	c. 2 cm long, conspicuously winged
<i>Flowers</i>	white
<i>Fruits</i>	green-yellow
<i>Branches</i>	ribbed; tendrils present

Phyllanthus muellerianus (O. Ktze.) Exell (Euph.), 327, 426

<i>Leaves</i>	simple, resembling pinnate leaves; alternate; stipules linear
blade	ovate to elliptic, 2-7 cm long, 1.5-4 cm wide, glaucous beneath
base	rounded
margin	entire
apex	subacute
petiole	c. 0.4 cm long
<i>Flowers</i>	red-brown to white
<i>Stem</i>	cross section pentagonal

Platysepalum hirsutum (Dunn) Hepper (Pap.), 615, 773

<i>Leaves</i>	compound, imparipinnate with 7-9 opposite leaflets; alternate; stipulate
<i>leaflets</i>	
blade	obovate-oblong, 5-11 cm long, 2.5-3.5 cm wide, rusty pilose beneath
base	cuneate to rounded
margin	entire
apex	acutely acuminate
petiole	c. 5 cm long, rusty pilose
petiolule	c. 0.2 cm long, rusty pilose
rachis	c. 6 cm long, rusty pilose
<i>Flowers</i>	flowerbud felty, covered with dark brown hairs; flower purple

Polycoryne fernandensis (Hiern) Keay (Rub.), 138

<i>Leaves</i>	simple, opposite; interpetiolar stipules
blade	oblong-elliptic, glabrous, 4-25 cm long, 3-14 cm wide
base	cuneate to rounded
margin	entire
apex	shortly acuminate
petiole	1-5 cm long
<i>Fruits</i>	mature fruit black, ellipsoid, c. 2.5 cm long, c. 2 cm across
<i>Branches</i>	cross section rectangular; water streaming out of the stem when cut

Premna lucens A. Chev. (Verb.), 513, 438

<i>Leaves</i>	simple, opposite; estipulate
blade	obovate to oblong-elliptic, 5-9 cm long, 2-6 cm wide, shortly pubescent beneath
base	rounded
margin	entire

apex acuminate
Flowers pale green to white

cf. **Pyrenacantha mangelotiana** Miège (Icac.), 705

Leaves simple, alternate; estipulate
 blade elliptic to obovate-elliptic, glabrous, 3–16 cm long,
 2–9 cm wide
 base cuneate
 margin entire
 apex acuminate
Fruits orange, c. 1.5 cm long, rough with subsidences

Pyrenacantha vogeliana Baill. (Icac.), 643

Leaves simple, alternate; estipulate
 blade oblong-elliptic or oblong-lanceolate, 5–17 cm long,
 2–7 cm wide; lower surface scabrous, appressed puberulous, the hairs well separated from one another
 base auriculate
 margin undulate
 apex caudate
 petiole c. 1 cm long
Fruits orange

Quisqualis indica L. (Combr.), 103

Leaves simple, opposite; estipulate
 blade obovate-elliptic, 3.5–14 cm long, 2.5–8 cm wide
 base rounded
 margin entire
 apex shortly acuminate
Flowers petels with a yellow-white lower side and a wine-red
 upper side
Fruits narrow elliptic, with narrow, thin wings, c. 3 cm long

Rhigiocarya racemifera Miers (Menisp.), 379

Leaves simple, alternate; estipulate
 blade cordate in outline, 7–18 cm long, 6–16 cm wide, thinly
 papery
 base cordate
 margin entire
 apex acuminate
 nervature palmeti-nervate; about 7-nerved at base
 petiole up to 9 cm long, twisted at base
Flowers green
Fruits green, ellipsoid, 1.5 cm long, 1 cm across

Rutidea parviflora DC. (Rub.), 349

<i>Leaves</i>	simple, opposite; interpetiolar stipules divided into 3-5 filiform segments
blade	oblong, 6-10 cm long, 3-5.5 cm wide; subglabrous above, pilose on nerves beneath, often with a tuft of pale coloured hairs in the nerve axils
base	rounded
margin	entire
apex	acutely acuminate
petiole	0.4 cm long, pilose
<i>Branches</i>	bristly pubescent

Rytigynia canthioides (Benth.) Robyns (Rub.), 343

<i>Leaves</i>	simple, opposite; interpetiolar stipules
blade	oblong-elliptic, slightly pubescent on nerves beneath and on upper surface, 5-9 cm long, 2-4 cm wide
base	rounded
margin	entire
apex	long acuminate
petiole	c. 0.5 cm long, densely pubescent
<i>Flowers</i>	light yellow, in the axils of leaves on the young branchlets
<i>Branches</i>	covered with red-brown hairs when young

Saba senegalensis (A. DC.) Pichon (Apoc.), 417

<i>Leaves</i>	simple, opposite; interpetiolar line
blade	oblong, sometimes ovate, glabrous, 4-17 cm long, 2-7 cm wide
base	rounded
margin	entire
apex	shortly acuminate or acute
nervature	pinnati-nervate with 7-14 pairs of lateral nerves
petiole	c. 1.2 cm long

Sacosperma paniculatum (Benth.) G. Taylor (Rub.), 556

<i>Leaves</i>	simple, opposite; interpetiolar stipules triangular with a simple or occasionally bifid awn
blade	elliptic to ovate, 6-10 cm long, 2-4 cm wide, subglabrous to pubescent
base	cuneate
margin	entire
apex	acute
petiole	c. 2 cm long
<i>Flowers</i>	green

Salacia camerunensis Loes. (Hipp.), 223

<i>Leaves</i>	simple, opposite; estipulate
blade	oblong, c. 13 cm long, c. 5 cm wide, glabrous
base	cuneate
margin	dentate
apex	acuminate
petiole	c. 0.5 cm long
<i>Flowers</i>	pale yellow

Salacia cf. cerasifera Welw. ex Oliv. (Hipp.), 749

<i>Leaves</i>	simple, opposite to subopposite; estipulate
blade	elliptic to oblong, c. 14 cm long, c. 7 cm wide, glabrous, coriaceous
base	long cuneate
margin	weakly dentate
apex	acuminate
petiole	c. 1 cm long
<i>Fruits</i>	dark orange

Salacia nitida (Benth.) N.E. Brown (Hipp.), 723

<i>Leaves</i>	simple, opposite to subopposite; estipulate
blade	oblong to elliptic, c. 12 cm long, c. 6 cm wide, glabrous
base	cuneate
margin	entire
apex	acuminate
petiole	c. 0.7 cm long
<i>Flowers</i>	green-yellow
<i>Fruits</i>	dark orange

Salacia spec. (Hipp.), 360

<i>Leaves</i>	simple, opposite to subopposite; estipulate
blade	oblong, c. 7 cm long, 2-4 cm wide, glabrous
base	cuneate to rounded
margin	entire
apex	slightly acute to obtuse
petiole	c. 0.4 cm long
<i>Flowers</i>	green-yellow

Salacia zenkeri Loes. (Hipp.), 68

<i>Leaves</i>	simple, subopposite; estipulate
blade	oblong, c. 15 cm long, c. 6 cm wide, glabrous
base	cuneate
margin	very weakly dentate to entire
apex	acute to acuminate
petiole	c. 0.5 cm long
<i>Flowers</i>	green-yellow

Sherbournia bignoniiflora (Welw.) Hua (Rub.), 200

<i>Leaves</i>	simple, opposite; interpetiolar stipules
blade	ovate-oblong, 9–21 cm long, 5–12 cm wide
base	mostly cordate and unequal-sided
margin	entire
apex	acute to slightly acuminate
nervature	pinnati-nervate, with 5–7 main lateral nerves on each side of the midrib
petiole	c. 0.8 cm long
<i>Flowers</i>	green-purple
<i>Fruits</i>	orange, c. 7.5 cm long, 5–6 cm broad

Sherbournia calycina (G. Don) Hua (Rub.), 270

<i>Leaves</i>	simple, opposite; interpetiolar stipules
blade	lanceolate to oblong, 7–17 cm long, 2–8 cm wide
base	cuneate
margin	entire
apex	gradually acuminate
nervature	pinnati-nervate, with 4–7 main lateral nerves on each side of the pubescent midrib
petiole	c. 0.5 cm long, pubescent
<i>Flowers</i>	petals white, sepals pink
<i>Fruits</i>	orange

Spiropetalum reynoldsii (Stapf) Schellenb. (Conn.), 26, 79

<i>Leaves</i>	compound, imparipinnate, with 2–4 pairs of often subopposite leaflets; alternate; estipulate
<i>leaflets</i>	
blade	oblong-elliptic, c. 9 cm long, c. 5 cm wide
base	cuneate or rounded
margin	entire
apex	shortly acuminate
nervature	midrib markedly pubescent
petiole	pubescent
petiolule	c. 0.3 cm long, pubescent
rachis	4–8 cm long, pubescent
<i>Flowers</i>	white, discolouring pink, with a nice smell
<i>Branches</i>	pubescent

Strophanthus hispidus DC. (Apoc.), 492

<i>Leaves</i>	simple, opposite; estipulate
blade	elliptic or ovate; especially the lower surface of the leaf densely covered with long hairs, scabrous, 5–15 cm long, 2–9 cm wide
base	rounded

margin	entire
apex	acuminate
petiole	c. 0.4 cm long, pubescent
<i>Fruits</i>	mature fruit 20 cm long, covered with brown hairs

***Strophanthus sarmentosus* DC. (Apoc.), 491**

<i>Leaves</i>	simple, opposite; interpetiolar ridge
blade	elliptic or ovate, smooth and glabrous on both sides, 4-11 cm long, c. 3 cm wide
base	cuneate
margin	entire
apex	acuminate
nervature	pinnati-nervate, with 4-7 pairs of lateral nerves and distinct tertiary venation beneath
petiole	c. 1 cm long, glabrous
<i>Fruits</i>	mature fruit c. 20 cm long

***Strychnos aculeata* Solered. (Log.), 240**

<i>Leaves</i>	simple, opposite; interpetiolar ridge
blade	elliptic to oblong, c. 12 cm long, c. 6 cm wide, coriaceous
base	rounded
margin	entire
apex	acuminate
nervature	distinctly 3-nerved
petiole	c. 0.7 cm long
<i>Fruits</i>	green
<i>Stem</i>	with internodal prickles

***Strychnos afzelii* Gilg (Log.), 198, 712**

<i>Leaves</i>	simple, opposite; interpetiolar ridge; often one of the opposite leafs a tendril
blade	variable in size, often obovate, c. 5 cm long, c. 3 cm wide
base	cuneate
margin	entire
apex	apiculate
nervature	3-nerved; midrib hairy
petiole	c. 0.3 cm long, hairy
<i>Flowers</i>	yellow-green
<i>Fruits</i>	green

***Strychnos camptoneura* Gilg et Busse (Log.), 207**

<i>Leaves</i>	simple, opposite; interpetiolar ridge; tendrils present
blade	6-22 cm long, 3-10 cm wide

- nervature basal secondary veins mostly not more conspicuous than the others
- Fruits* green
- Strychnos longicaudata* Gilg (Log.), 628**
- Leaves* simple, opposite; interpetiolar ridge; tendrils present
- blade elliptic to oblong, c. 9 cm long, c. 4 cm wide, subcoriaceous
- base cuneate
- margin entire
- apex long caudate
- nervature distinctly 3-nerved
- petiole c. 0.3 cm long
- Fruits* green
- Strychnos usambarensis* Gilg (Log.), 677, 539**
- Leaves* simple, opposite; interpetiolar ridge; often one of the two opposite leaves a tendril
- blade oblong to lanceolate, c. 6 cm long, c. 2.5 cm wide, glabrous
- base cuneate to rounded
- margin entire
- apex caudate
- nervature distinctly 3- or 5-nerved
- petiole c. 0.3 cm long
- Fruits* yellow, c. 0.5 cm long
- Branches* lenticellate, glabrous, often covered with a pale skin which splits and peels off
- Tacazzea apiculata* Oliv. (Asclep.), 503**
- Leaves* simple, opposite; stipulate
- blade elliptic to suborbicular, c. 4–10 cm long, c. 6 cm wide
- base cordate
- margin entire
- apex slightly emarginate
- petiole 2–3 cm long
- Flowers* greenish yellow
- Tetracera alnifolia* Willd. (Dill.), 460, 805**
- Leaves* simple, alternate; estipulate
- blade oblong to oblong-obovate, 6–16 cm long, 3.5–9 cm wide, scabrous, coriaceous
- base cuneate
- margin entire
- apex obtuse to rounded

nervature	pinnati-nervate; sparsely pubescent on midrib and nerves beneath
petiole	c. 1 cm long, winged, pubescent
<i>Fruits</i>	red-brown
<i>Branches</i>	pubescent when young

Tiliacora cf. dielsiana Hutch. et Dalz. (Menisp.), 134

<i>Leaves</i>	simple, alternate; estipulate
blade	oblong, 9–20 cm long, 4–8 cm wide
base	cuneate
margin	entire
apex	acuminate
nervature	6-nerved at base
petiole	c. 1.5 cm long, thicker near the blade
<i>Fruits</i>	black, many together in a cluster

Usteria guineensis Willd. (Log.), 440

<i>Leaves</i>	simple, opposite; interpetiolar ridge
blade	orbicular or broadly elliptic, c. 10 cm long, c. 6 cm wide, glabrous
base	rounded
margin	entire
apex	rounded
nervature	pinnati-nervate, with 3–4 conspicuous lateral nerves
petiole	c. 0.5 cm long
<i>Flowers</i>	yellow-green with a nice smell
<i>Branches</i>	glabrous

Uvaria afzelii Sc. Elliot (Annon.), 101, 168, 543

<i>Leaves</i>	simple, alternate; estipulate
blade	oblong, 7–25 cm long, 3–7 cm wide, covered with long red-brown hairs; upper surface not scabrous
base	rounded to cordate
margin	entire
apex	subacute or obtuse
petiole	c. 0.5 cm long, densely covered with red-brown hairs
<i>Flowers</i>	pale yellow; flowerbuds, young fruits, twigs and leaves felty, covered with hairs

Uvaria baumannii Engl. et Diels (Annon.), 226

<i>Leaves</i>	simple, alternate; estipulate
blade	oblong to lanceolate, 7–18 cm long, 3–6 cm wide, densely tomentellous
base	rounded
margin	entire

apex	caudate
nervature	pinnati-nervate with 15–20 pairs of lateral nerves impressed above, prominent beneath
petiole	c. 0.3 cm long, pilose
<i>Fruits</i>	yellow-brown

***Uvaria doeringii* Diels (Annon.), 286**

<i>Leaves</i>	simple, alternate; estipulate
blade	narrowly oblong-obovate, 7–12 cm long, 3–6 cm wide, pilose
base	rounded
margin	entire
apex	shortly acuminate
petiole	c. 0.6 cm long, pilose
<i>Flowers</i>	green-white
<i>Fruits</i>	yellow, sticky, c. 8 cm long, sausage-like

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