

Supplementary Table 1. life form, distribution, phenology, propagation conservation status and uses of woody plant species recorded in Ghana

Sr. No.	Species	Life form: guild	Habitat: Distribution	Propagation	IUCN: Star	Medicinal use
1.	<i>Adenium obesum</i> (Forsk.) Roem & Schultze [synonym <i>Adenium honghel</i> A. DC.]	Shrub	Semi-arid regions: Mauritania, Senegal to Sudan and Somalia, Ethiopia, Kenya and Tanzania; most Arabian and Asian countries	Flowers: November; budding 90 days; flowering, 30–35 days; fruit ripening 110–120 days; single flower 5 days (Seed; cuttings)	LC: NA	Abortifacient; antimicrobial, antioxidant, anticancer, antiviral and immunomodulation activities venereal diseases; tooth decay; septic wounds
2.	<i>Alafia barteri</i> Oliv.	Liana: NPLD	Closed and secondary forests: Sierra Leone, Liberia, Côte d'Ivoire, Ghana, Benin, Nigeria, Cameroon, Gabon, Equatorial Guinea, Sudan and Uganda	Flower: April – August; Fruit April	NA: Green	Anti-inflammatory, antinociceptive effects
3.	<i>Alstonia boonei</i> De Wild Synonym: <i>Alstonia congenesis</i> Engl.	Tree: Pioneer	Moist evergreen, dry semi-deciduous forests: Angola, Benin, Cameroon, Central African Republic, Congo, Côte d'Ivoire, Democratic Republic of the Congo, Equatorial Guinea, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Liberia, Mali, Nigeria, Senegal, Sierra Leone, Sudan, Togo, Uganda.	Flower: October-November/ November-February. Fruits: January and February (Seed; cuttings)	LC: Green	Aphrodisiac, antidiabetic, antimicrobial, antimalarial and antipyretic and lactogenic activities
4.	<i>Baissea caudiloba</i> Stapf Synonym: <i>Baissea multiflora</i> A.DC.	Liana: NPLD	Coastal plains, secondary forest: Senegal, the Gambia, Guinea-Bissau, Guinea, Mali, Burkina Faso, Niger, Sierra Leone, Liberia, Côte d'Ivoire, Ghana, Nigeria, Cameroon, the Central African Republic, Gabon, the Republic of Congo, the Democratic Republic of the Congo and Angola.	Flower: February-March	NA: Green	Treatment for colic, rheumatism, arthritis, kidney problems, haemorrhoids, lumbago, conjunctivitis, appendicitis, diarrhoea and gonorrhoea
5.	<i>Baissea leonensis</i> Benth.	Liana: NPLD	Secondary forest—moist forest, forest margins: Senegal to Uganda, Angola	NA (Seed)	NA: Blue	Treatment for mumps and tumours

6.	<i>Callichilia barteri</i> - (Hook.f.) Stapf. [Synonym: <i>Hedranthera barteri</i> (Hook. f.) Pichon]	Erect shrub	Rainforest, Closed forest: Côte d'Ivoire to Nigeria; Cameroun; Republic of Congo; Democratic Republic of the Congo	February-April (NA)	NA: NA	Treatment for gonorrhoea; anthelmintic; laxative; tumours: cancers, paralysis, epilepsy, convulsions, spasm
7.	<i>Callichilia stenosepala</i> Stapf	Liana	Secondary forest: Liberia to Nigeria	Flowers and fruits: November (NA)	NA; NA	Antimalarial agent
8.	<i>Carissa edulis</i> (forssk) vahl	Liana	Riverine, coastal thickets, dry deciduous forest: Botswana, Cambodia, Cameroon, Eritrea, Ethiopia, Ghana, Guinea, Japan, Kenya, Myanmar, Namibia, Nigeria, Saudi Arabia, Senegal, South Africa, Sudan, Tanzania, Thailand, Uganda, Vietnam, Yemen, Zimbabwe	Flowers and fruits: March-August (Seed; cuttings)	LC: NA	Treatment of headache, chest complaints, arthritis, rheumatism and gonorrhoea. Nasopharyngeal and pulmonary problems, lumbago, toothache, vermifuges aphrodisiac, venereal diseases, dropsy, swellings, oedema, gout.
9.	<i>Carpodinus dulcis</i> Sabine	Liana	Closed forest: Tropical west Africa to Sudan, Angola, Cape Verde	Flowers: May (Seed)		Treatment of male impotence; lactogenic activity; cardiogenic activity; antibacterial; antitrypanosomal; antiamoebic; antiplasmodial; febrifuge.
10.	<i>Conopharyngia cumminsii</i> Stapf	Tree	Closed forest, riverine forest. Ghana to the Democratic Republic of the Congo	Flowers: February-March; November-December (Seed; cuttings)	NA: NA	Treatment for headache, hypertension, cramps, ulcers, stomach ache, constipation, flatulence; anaemia, styptic; galactagogue; antimicrobial, hypnotic; aphrodisiac.
11.	<i>Funtumia africana</i> (Benth.) Stapf	Tree	Semi-deciduous forest, moist evergreen forest. Senegal to Angola, Democratic Republic of the Congo, Tanzania, Malawi	Flowers: March-May, November	NA: NA	Treatment and management of fever, inflammation, malaria, cancer, urinary incontinence, diarrhoea, dysentery and diuretics.
	<i>Funtumia elastica</i> (Preuss) Stapf	Tree	Deciduous forest, moist forest. Guinea to Democratic Republic of the Congo, Sudan, Uganda	Flowers: January-May	NA: NA	Treatment of whooping cough, asthma, blennorrhoea, painful menstruation, fungal infections and wounds
12.	<i>Gabunia psorocarpa</i> Pierre [Synonym <i>Tabernaemontana psorocarpa</i> (Pierre ex Stapf) Pichon.]	Liana	Closed forest. Liberia to Gabon	Flowers: November (NA)	NA: Gold	Used to treat skin diseases. Has strong antiamoebic activity

13.	<i>Holarrhena wulfsbergii</i> Stapf	Tree	Deciduous forest, dry deciduous forest, savanna forest. Guinea to Democratic Republic of the Congo	Flowers: March-May; Fruits: June, August (NA)	NA: NA	Antidote against dysentery. Used against skin troubles, haemostatic, febrifuge, antimalaria and narcotic effects.
14.	<i>Hunteria elliotii</i> (Stapf) Pichon [Synonym <i>Picalima elliotii</i>]	Tree, Liana: NA	Wet forest. Sierra Leone—Nigeria	Flowers: May, December	NA: NA	Treatment of leprous spots, Used as a stomachic, febrifuge
15.	<i>Hunteria umbellate</i> (K. Schum.) Hallier, f. [Synonym: <i>Picalima umbellata</i> Stapf]	Tree: Shade-bearing	Closed forest. Sierra Leone, Ghana–Cameroon, Gabon	Flowers: January	NA: Green	Treatment of diabetes, obesity, miscarriage, menorrhagia
16.	<i>Isonema smeathmannii</i> Roem. & Schult.	Liana: Swamp	Swamp forest. Swampy locations in coastal scrub vegetation. Sierra Leone—Ghana	Fruits: February (Seed)	NA: Blue	Treatment of old sores
17.	<i>Landolphia amoena</i> (Hua) Hua ex Hua & A. Chev. [Synonym: <i>Ancylobotrys amoena</i> Hua, <i>Landolphia ferruginea</i> (Hallier f.) Stapf, <i>Landolphia nitida</i> Lebrun & Taton, <i>Pacouria amoena</i> (Hua) Pichon]	Liana:	Secondary and fringing forest: Angola, Benin, Cameroon, Chad, Gabon, Central African Republic, Côte d'Ivoire, Democratic Republic of the Congo, Ghana, Guinea, Liberia, Mali, Malawi, Nigeria, Republic of Congo, Rwanda, South Sudan, Sudan, Uganda, Tanzania, Togo, Zambia	Flowers: November – January (NA)	NA: Green	Treatment of eye
18.	<i>Landolphia comorensis</i> (Bojer) K. Schum. [Synonyms: <i>Landolphia florida</i> Benth., <i>Saba comorensis</i> (Bojer) Pichon]	Liana	Closed and riverine forest: Senegal to Democratic Republic of the Congo, Angola, Sudan, Sudan, Uganda, Malawi, Mozambique, Tanzania	Flowers: March-May, October–December (NA)	NA: NA	Treatment for snakebite, gonorrhoea, colic
19.	<i>Landolphia heudelotii</i> A.DC.	Liana	Open forest: Guinea – Tanzania	Flowers: February (Seed, Cuttings)	NA: NA	For treating intestinal pains, tooth troubles, haemorrhoids,
20.	<i>Dictyophleba leonensis</i> (Stapf) Pichon. [Synonym: <i>Landolphia leonensis</i> Stapf, <i>Carpodinus macrophylla</i> A.Chev. Ex Hutch. & Dalziel,	Liana: NA	Closed forest: Cameroon, Côte d'Ivoire, Ghana, Guinea, Liberia, Nigeria, Sierra Leone	Flowers: August (Seed; Cuttings)	NA: Blue	Treatment of mumps, swellings oedema, gout, arthritis, rheumatism

	<i>Carpodinus nigerina</i> A.Chev.]					
21.	<i>Landolphia owariensis</i> P. Beauv.	Shrub or liana: NA	Secondary forest, fringing forest: Angola, Benin, Burkina, Burundi, Cameroon, Central African Republic, Chad, Congo, Gabon, Ghana, Guinea, Guinea-Bissau, Côte d'Ivoire, Liberia, Malawi, Mali, Nigeria, Rwanda, Senegal, Sierra Leone, Sudan, Tanzania, Togo, Uganda, Zambia, Democratic Republic of the Congo	Flowers: April–August, October (Seed; Cuttings)	NA: Green	Treatment of intestinal worms, sprains, eyes, giddiness, epilepsy, oedema, rheumatism, urethral discharge and bodily pains; used as purgative.
22.	<i>Motandra guineensis</i> ; (Thonn.) A.DC.	Liana: NPLD	Secondary deciduous, gallery forest: Guinea–Sudan, Democratic Republic of the Congo, Uganda, Angola.	Flowers: March – April (Seed)	NA: Green	Treatment of eye and mouth troubles (gum and toothache) and postpartum stomach ache.
23.	<i>Nerium oleander</i> Linn.	Shrub	Northwest Africa, the Iberian peninsula to the Mediterranean region, the Arabian peninsula and southern Asia.	(Seed; Cuttings)	LC: NA	Treatment of scabies, swellings, leprosy, skin diseases; cathartic, cardiotonic, diaphoretic, diuretic, emetic, expectorant, sternutatory, antibacterial, anthelmintic, antifungal, anti- inflammatory, hepatoprotective, febrifuge, anti- HIV
24.	<i>Oncinotis glabrata</i> (Baill.) Stapf ex Hiern.	Liana: NPLD	Closed forest, swamp forest, secondary deciduous forest and gallery forest: Guinea, Liberia, Côte d'Ivoire, Ghana, Benin, Nigeria, Cameroon, the Central African Republic, Equatorial Guinea, Gabon, Republic of Congo, Democratic Republic of the Congo, Burundi, Uganda, Tanzania Angola	Flowers: August Fruits: June, October (Seed)	NA: Green	Treatment of yaw sores. Anti- abortifacient
25.	<i>Oncinotis nitida</i> Benth.	Liana: NPLD	Closed forest: Benin, Congo, Ghana, Guinea, Guinea-Bissau, Côte d'Ivoire, Liberia, Nigeria, Senegal, Sierra Leone, Togo	Flowers: May-August, October (Seed)	NA: Blue	Anti-abortionifacient promotes wound healing
26.	<i>Picralima nitida</i> (Stapf) Th. &H.Dur. [Synonym: <i>Picralima klaineana</i> Pierre]	Tree	Deciduous forest: Côte d'Ivoire– Democratic Republic of the Congo, Uganda	Flowers: April, June, August (NA)	NA: Blue	Treatment for fever, diabetes, hypertension, jaundice, dysmenorrhea, gastrointestinal disorders, venereal diseases, pneumonia and malaria; possesses vermifuge,

						sympathicosthenic, anaesthetic, antiulcer and antitumorigenic, activities.
27.	<i>Pleiocarpa micrantha</i> Stapf	Shrub or tree	Dry deciduous Forest: Ghana, Upper Guinea	NA (NA)	NA: NA	Laxative
28.	<i>Pleiocarpa pycnantha</i> (K.Schum.) Stapf [synonym: <i>Pleiocarpa flavescens</i> Stapf]	Shrub or tree: NA	Rainforest, gallery forest, montane forest: Senegal to Sudan, Democratic Republic of the Congo, Uganda and Kenya, south to Angola, Zambia, Zimbabwe and Mozambique.	Flowers: February (Seed)	LC: Blue	Laxative: sexual stimulant
29.	<i>Pleioceras barteri</i> Baill.	Shrub or Liana: Pioneer	Evergreen forest, secondary forest, coastal scrub: Sierra Leone, Liberia, Côte d'Ivoire, Ghana, Benin, Cameroon, Central African Republic	Flowers: February (Seed)	NA: Blue	Emmenagogue, abortifacient, antimalarial, treatment of rheumatism, nosebleed, female sterility, boils.
30.	<i>Plumeria acutifolia</i> Poir.	Shrub	Tropical America	NA (Cuttings)	NA: NA	Purgative
31.	<i>Rauvolfia cumminsii</i> Stapf	Shrub: Shade-bearing	Liberia–Togo, Nigeria, Uganda, Angola	NA (NA)	NA: Blue	Treatment of fever, diabetes, gastrointestinal disorders, dental caries, poisoning, jaundice, gonorrhoea or female sterility, muscular pains and aches, spasms, epilepsy, wound healing, skin parasites and pimples.
32.	<i>Rauvolfia serpentine</i> Benth. ex Kurz	Liana	Moist and rain forests: India	NA (Seed, Stem/Root <i>Cutting</i>)		Anti-hypertensive, neuropsychiatric
33.	<i>Rauvolfia vomitoria</i> Afzel.	Shrub or tree: Pioneer	Secondary forest: Senegal – Cameroon, Central African Republic, Sudan –Uganda, south to Angola, DR Congo and Tanzania.	Flowers: February–July (NA)	LC: Green	Treatment of rash, pimples, chicken pox, wounds, scabies, psoriasis, leprosy, fever, head lice, indigestion, diarrhoea, colic, haemorrhoids, rheumatism, jaundice, venereal diseases, female sterility, snakebites, hypertension, epilepsy, psychosis; rachitis; gingivitis, thrush, aphrodisiac, purgative, tumours emetic, abortifacient.
34.	<i>Saba senegalensis</i> (A. DC.) Pichon [synonym: <i>Landolphia senegalensis</i> Kotschy & Peyr.]	Liana	Fringing forest, savannah forest: Benin, Burkina, Central African Republic, Côte d'Ivoire, Gambia, Ghana, Guinea, Guinea-Bissau, Mali, Mauritania, Senegal	Flowers: March, April, July – September (Seed)	NA: NA	Pain-killer, eye treatment, nasopharyngeal infections, pulmonary troubles, emetics, diarrhoea, dysentery, kidney condition, diuretics, anti-leprosy, haemostatic, antiseptic, cicatrisant

35.	<i>Strophanthus gratus</i> (Hook.) Franch.	Climber: NA	Deciduous and secondary forests: Sierra Leone – Democratic Republic of Congo	Flowers: November, January – February (Cutting)	NA: Pink	Treatment of skin and mucosae problems, diarrhoea, dysentery, skin parasitic infection, genital stimulants/depressants, venereal diseases, febrifuge, malnutrition, debility, food poisoning, antidote to venomous stings, bites, astringent
36.	<i>Strophanthus hispidus</i> DC.	Liana: Pioneer	Homes and Savannah forest: Angola, Benin, Burkina, Cameroon, Central African Republic, Congo, Equatorial Guinea, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Côte d'Ivoire, Liberia, Mali, Nigeria, Senegal, Sierra Leone, Tanzania, Togo, Uganda, Democratic Republic of the Congo	Flowers: February – March, July (Seed)	LC: Pink	Treatment of arthritis, rheumatism, skin, mucosae, kidney problems, skin parasitic infections, venereal diseases; laxative, diuretic vermifuge, genital stimulants/depressants, lactation stimulants; antidotes to venomous stings, bites,
37.	<i>Strophanthus preussii</i> Engl. & Pax	Liana: Pioneer	Deciduous, secondary forests, scrub vegetation: Angola, Benin, Cabinda, Cameroon, Central African Republic, Congo, Gabon, Ghana, Guinea, Gulf of Guinea Is., Côte d'Ivoire, Liberia, Nigeria, Sierra Leone, Tanzania, Togo, Uganda, Democratic Republic of the Congo	Flowers: January, April – May (Seed; Cutting)	LC: Green	Treatment of gonorrhoea, sores and wounds: A leaf decoction is taken to treat postpartum pain
38.	<i>Strophanthus sarmentosus</i> DC.	Liana: Pioneer	Ecotone, dry deciduous forest, gallery forest and thickets in savannah: Angola, Benin, Burkina, Cameroon, Central African Republic, Republic of Congo, Equatorial Guinea, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Côte d'Ivoire, Liberia, Mali, Mauritania, Niger, Nigeria, Senegal, Sierra Leone, Togo, Uganda, Democratic Republic of the Congo	Flowers: December – March; fruits: September, December – February (Seed)	NA: Green	Treatment of painful joints, head lice, scabies, leprosy, eye conditions, venereal diseases, stomach troubles, snakebite; diuretic, emetic, cicatrizant; vermifuge
39.	<i>Tabernaemontana brachyantha</i> Stapf [synonym:	Shrub; tree	Closed high forest: Ghana to Nigeria, Cameroon, Equatorial Guinea, Gabon, Gulf of Guinea Is., Democratic Republic of the Congo.	Flowers: April, July – August (NA)	NA	Vermifuge, febrifuge

	<i>Conopharyngia brachyantha</i> Stapf]					
40.	<i>Tabernaemontana crassa</i> Benth. [Synonym: <i>Conopharyngia crassa</i> (Benth.) Stapf; <i>Conopharyngia durissima</i> (Stapf) Stapf]	Shrub; tree: Shade-bearing	Angola, Cameroon, Central African Republic, Congo, Gabon, Ghana, Côte d'Ivoire, Liberia, Nigeria, Sierra Leone, Democratic Republic of the Congo	Flowers: December, January, April, May (NA)	LC: Green	Haemostatic, anthelmintic; treatment of rheumatism, kidney problems
41.	<i>Thevetia peruviana</i> (Pers.) Merr. [synonym: <i>Thevetia neriifolia</i> Juss. ex Steud	Shrub; tree	Mexico, West Indies, Brazil, Europe, tropics	NA (NA)	VU	Heart conditions, fainting, colds, severe headaches, toothache, amenorrhoea, rheumatism, dropsy, haemorrhoids. Skin conditions, jaundice, eye problems, malaria, tumours, snakebites; abortifacient, emetic, laxative/ purgative, febrifuge,
42.	<i>Voacanga africana</i> Stapf	Tree: Pioneer	Secondary forest, savannah forest: Angola, Benin, Burkina, Burundi, Cameroon, Central African Republic, Congo, Côte d'Ivoire, Democratic Republic of the Congo, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Gulf of Guinea Is., Kenya, Liberia, Malawi, Mali, Mozambique, Nigeria, Senegal, Sierra Leone, Sudan, Tanzania, Togo, Uganda, Zambia, Zimbabwe	Flowers: February, April – May (Seed; Cutting)	NA: Green	Analgesic, antibacterial, anticonvulsant, antifungal, cardiotonic, cytotoxic, diuretic, hypotensive, vasoconstrictor; dysmenorrhea, diarrhoea, oedema, leprosy, mental disorders
43.	<i>Voacanga bracteata</i> Stapf [synonym: <i>Voacanga angolensis</i> Stapf ex Hiern]	Shrub: Shade-bearing	High forest: Benin, Cameroon, Central African Republic, Congo, Côte d'Ivoire, Democratic Republic of the Congo Equatorial Guinea, Gabon, Ghana, Guinea, Liberia, Nigeria, Sierra Leone	Flowers: November – December; February, August (NA)	LC: Green	Rheumatism
44.	<i>Voacanga thouarsii</i> Roem. & Schult [synonym: <i>Voacanga obtusa</i> K. Schum.]	Tree: Swamp	Wet and swampy areas in semi-deciduous forest and savannah: Angola, Burkina, Cameroon, Cape Provinces, Central African Republic, Congo, Côte d'Ivoire, Democratic Republic of the Congo, Gambia, Ghana, Guinea, Guinea-Bissau, Kenya, KwaZulu-Natal, Liberia, Madagascar, Malawi, Mali, Mozambique, Nigeria, Senegal,	Flowers: February (Seed)	LC: Green	Treatment of gonorrhoea, eczema, fungal infections and scabies, cancer. Rheumatism; antihypertensive, cardiotonic

			Sierra Leone, Sudan, Tanzania, Uganda, Zambia, Zimbabwe			
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