Vegetation of Doi Tung, Chiang Rai Province, Northern Thailand

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Abstract: The climate of Doi Tung, Chiang Rai Province, is monsoonal with three distinct seasons, viz. cool-dry, hot-dry, and rainy. The elevation ranges from c. 350-1525m and most of the bedrock is limestone and granite. Vegetation below c. 1000m is mostly deciduous, while above this it is evergreen. A mixed evergreen + deciduous facies is present on the limestone peaks (up to 1425m). Forest destruction as well as settlements are widespread, thus creating increasingly severe problems with water resources, soil quality and stability, and biodiversity. The planting on pine monocultures in deforested areas 20 years ago in upland granite areas has resulted in much environmental degradation which requires immediate rectification.

Keywords: Doi Tung, vegetation, deciduous, evergreen, hardwood forest

Introduction

Doi (Mt.) Tung (pronounced “dtung”) is a mountainous area situated in the northern part of Chiang Rai Province, northern Thailand at approximately 20° 20' N latitude, 99° 50' E longitude. The northern part of the mountain is in Mae Sai District, while the southern part is in Mae Fa Luang District. The area is under the jurisdiction of the Mae Fa Luang Foundation, Doi Tung Development Project, which was established in 1988 by HRH the late Princess Mother (1901-1995) who had a retreat there. This project is directed by MR Disnadda Diskul, former secretary to HRH the Princess Mother. The main objectives of the Doi Tung Development Project are the alleviation of poverty and assistance of the various hill tribe folk living in the area, environmental and natural resource conservation, sustainable
agricultural development, and reforestation. Prior to 1988 the entire area was a major centre of opium
(*Papaver somniferum* L., Papaveraceae) production which caused the destruction of much of the
natural forest cover there (Figure 1). Subsequent replanting with *Pinus kesiya* Roy. *ex* Gord. (Pinaceae,
3-needled pine) has covered most of the denuded slopes in the area. Various environmental problems
created by planting monocultures of this inappropriate species are now becoming realized.

The Doi Tung Development Project includes an area of c. 150 km². There are 27 villages and, as of
2004, 10,741 people living in the project area. There are 7 ethnic groups present with Akha (c. 48%),
Lahu (c. 16%), Tai Yai (c. 17%), Chinese (c. 9%), Lua (c. 5%), Thai (c. 2%), and Lisu (<1%)\(^1\).

**Figure 1.** View east of Pah He (Abha) Village, cool season 1988. Uncontrolled and rampant forest
destruction by hilltribe immigrants combined with their primitive agricultural practices resulted in
widespread denuded and eroded land throughout northern Thailand. This picture, taken in late 1988-
early 1989 of a granite ridge SE of Pah He (Akha) village, shows what much of Doi Tung was like prior
to the establishment of the Doi Tung Development Project. The ridge is presently covered with a
mixture of secondary growth and planted pine. Doi Nahng Nawn is visible in the upper left corner of the
photo. Source: Doi Tung Development Project, Doi Tung, Chiang Rai.

The Doi Tung area has at least a thousand year history of human influence. In AD 911 (B.E. 1454),
King Achutarat Yonoknakapahn with Pra (priest) Maha Kassapapera established a pagoda (stupa) just
below the summit of Doi Tung at 1375 m elevation. This shrine is believed to contain the left clavicle
and about 500 other relict pieces of the Lord Buddha, thus establishing the first pagoda in the Lanna
kingdom. This pagoda was restored by Krubah (priest) Sivichai in 1927 (B.E. 2470) and was enclosed
in a larger structure in 1973 (B.E. 2516). This pagoda is now called Wat (temple) Pra Taht Doi Dung
and is a popular tourist attraction. Doi is a Thai word for mountain, while “tung” are long flags/banners
on tall poles which indicate important Buddhist areas. They symbolize victory, brightness, luck, and
good wishes. Apparently there were many “tung” on the summit area when the pagoda was established.
Some of these “tung” are still found at the temple.

\(^1\) Statistics from the Doi Tung Development Project, Doi Tung
Geology

The Doi Tung area is in the Pi Pahn (Nahng Nawn) range and consists of continuous Middle Permian limestone from the eastern lowlands of the mountain (450 m) to summit of Pah Hoong (c. 1425 m), which is slightly above Wat Pra Taht Doi Tung [1]. Adjacent to, north of, and of similar elevation as Pah Hoong are Doi Pah He and Doi Nahng Nawn—the later two having had much of their vegetation cleared by local hill tribe villagers. The valley between these two peaks is a major water catchment area for the east side of the mountain. Several upland tributaries eventually form Laeng and Dtone Fai Streams. This limestone was originally formed from calcareous deposits in the sea c. 250 million years ago, the sediment subsequently being lithified by pressure. There is also a shale deposit in the Pah Mee Cave area which is contiguous with the limestone. Shale is a sedimentary rock formed by compression and hardening of original deep water silt and mud deposits.

Doi Chang Moop² (c. 1525 m), situated west of Doi Tung along with the Royal Villa area (1000 m), consists of Middle-Upper Triassic granite [1] which was originally formed c. 200 million years ago from plutonic activity in the earth’s crust. Metamorphic sandstone, similar in age as the limestone, is found in the Royal Villa area. This was originally sandstone formed from sea sediment which has been subsequently altered by heat and pressure, i.e. it has been metamorphosed.

The collision of the India plate with SE Asia beginning c. 50 million years ago has caused the gradual uplift of mountains in the region. Subsequent tectonics and erosion have resulted in the present geomorphology of the area.

Climate

The climate in northern Thailand has 3 distinct seasons. The cool-dry season is from November-February which is followed by a hot-dry period from March to May. The rainy season begins in May-June and ends in November. Climatic data, provided by the Doi Tung Development Project, has been recorded at 3 stations located at 550, 570, and 1200 m elevation. There is a distinct dry season from December to March during which there is little to no rain. The first rains are in April, but it is not until May that there is any regularity in rainfall. The highest amount of rainfall is during July-September. The average annual rainfall at 550 m is 1925 mm, 2100 mm at 750 m, and 2500 mm at 1200 m. Figure 2 shows the average monthly amounts of rainfall at all 3 elevations.

Temperatures are lowest from November to February with an average minimum at 500 m of 13˚C in January-February and c. 21˚C from June-August. At 750 m the lowest average temperature is 13˚C in December and the highest is in April with 31˚C. At 1200 m the temperatures are lower with November-January having average temperatures at c. 13˚C and a peak in April of c. 23˚C (Figures 3 & 4).

² Thai=kneeling elephant, in reference to a large, smooth, granite exposure on the summit which is envisioned to resemble this shape; i.e. Chang Moop shrine (1500 m).
Figure 2. Average monthly rainfall (mm) at Doi Tung. Source: Doi Tung Development Project, Doi Tung, Chiang Rai, Graphics by Ricky Ward

Figure 3. Average monthly temperatures (°C) at Doi Tung. Source: Doi Tung Development Project, Doi Tung, Chiang Rai, Graphics by Ricky Ward

Figure 4. Average monthly diurnal temperature (°C) fluctuations at Doi Tung. Source: Doi Tung Development Project, Doi Tung, Chiang Rai, Graphics by Ricky Ward
Vegetation

The vegetation of Thailand, especially the north, is seasonal. There is a distinct dry period of various lengths ranging from 4-6 weeks in the south to several months in the north. The vegetation is greatly influenced by the amount and periodicity of rainfall. Seasonality, rainfall, elevation, and disturbance all directly influence vegetation while bedrock, especially limestone, can be a factor in floristics. Doi Tung has vegetation typical for the region and bedrocks, i.e. deciduous and evergreen. The basic system used to classify Thai vegetation follows my observations and analyses [2]. Lowland areas, 450-c.1000 m elevation, on both granite and limestone bedrocks, are deciduous and have often been severely degraded, frequently burned, and eroded.

These are deciduous, seasonal, hardwood forests, often with much bamboo (BB-DF), which are leafless from about December to April. More shaded and moist places, especially along permanent streams, often include evergreen species, i.e. mixed evergreen + deciduous, seasonal, hardwood forest (MXF). MXF is also found on the two limestone peaks at c. 1425 m. During the hottest and driest period from March-May, this MXF is manifest when the deciduousness of some species is obvious. The original vegetation of areas above 1000 m elevation was evergreen (EGF) and in some places with pine (EG-Pine), but rampant destruction by hill tribe people in the past century has eradicated much of this primary facies on both major bedrocks. The Doi Tung-Doi Chang Moop area has the most intact vegetation in the entire project area. After the first rains in May and June, all deciduous and MXF areas are green again. The particular phenologies of the species found in each forest type vary considerably. Flowers and fruits can be found in all areas throughout the year.

In general, the lowland and upland vegetation of Doi Tung is similar to that in Doi Chiang Dao Wildlife Sanctuary, Chiang Mai Province, c. 150 km SW of Doi Tung [3,4]. Both areas have granite and limestone bedrocks and within their corresponding elevations similar floras. The limestone of Doi Chiang Dao is continuous from 450-2175 m and granite rises west of this to c. 1550 m. The floras of the two areas are quite similar, including vast areas of degraded or destroyed forest caused by primitive hill tribe agricultural practices, frequent fires, domesticated cattle, hunting, and for Doi Chiang Dao totally ineffective protection and conservation of natural resources.

Lowland Deciduous Forests

From the plains at 450 m to c. 1000 m the vegetation is mostly deciduous during the dry season (November-May)—the peak of leaflessness being during the hottest and driest period of March and April. There are two basic kinds of deciduous forest, most of which have been obliterated by humans. Deciduous hardwood forest, once dominated by Tectona grandis L. f. (Verbenaceae, teak) is now absent. Other components of this formerly vast forest facies are: Xylic xylocarpa (Roxb.) Taub. var. kerrii (Craib & Hutch.) Niels. (Leguminosae, Mimosoideae), Pterocarpus macrocarpus Kurz (Leguminosae, Papilionoideae), Afzelia xylocarpa (Kurz) Craib and Sindora siamensis Teysm. ex Miq. var. siamensis (both Leguminosae, Caesalpinioideae)—all commercially valuable timber trees. The remnant of this once magnificent vegetation is a continuously degraded, burned, grazed, and eroded deciduous growth with much bamboo, especially Dendrocalamus membranaceus Munro, D. nudus PIlg., and Bambusa tulda Roxb. (all Graminae, Bambusoideae). This kind of degraded deciduous forest is now a bamboo-deciduous, seasonal, hardwood forest (BB-DF). Many tree species which were
part of the original forest still remain as survivors of the botanical holocaust since they are not good for timber, firewood, or charcoal. *Lagerstroemia cochinchinensis* Pierre var. *ovalifolia* Furt. & Mont. and *L. tomentosa* Presl (Lythraceae), *Tetrameles nudiflora* R. Br. ex Benn. (Datiscaceae), *Spondias pinnata* (L. f.) Kurz (Anacardeaceae), and *Garuga pinnata* Roxb. (Burseraceae) are some common examples which can occasionally be found—often as isolated individuals. Deciduous trees of less stature which formed the understorey of the original forest persist in many places, especially in regenerating areas include: *Millettia brandisiana* Kurz, *Dalbergia lanceolaria* L. f., and *D. cultrata* Grah. ex Bth. (all Leguminosae, Papilionoideae); *Cratoxylum formosum* (Jack) Dyer ssp. *pruniflorum* Kurz) Gog. (Guttiferae, Hypericeae); *Colona floribunda* (Kurz) Craib, *C. flagrocarpa* (Cl.) Craib, and *Berrya moills* Wall. ex Kurz (all Tiliaceae); *Mitragyna rotundifolia* (Roxb.) O.K. (Rubiaceae), *Schleichera oleosa* (Lour.) Oken (Sapindaceae), *Phyllanthus columnaris* M. A. and *Falconeria insigne* Roy. (both Euphorbiaceae); *Vitex canescens* Kurz and *V. limoniifolia* Wall. ex Kurz (Verbenaceae), *Alstonia scholaris* (L.) R. Br. (Apocynaceae), and *Anogeissus acuminata* (Roxb. ex DC.) Guill. & Perr. (Combretaceae).

Woody climbers and scandent shrubs, previously common, are often scarce since suitable tree support is often lacking. Common examples are: *Ziziphus oenoplia* (L.) Mill. var. *oenoplia* (Rhamnaceae), *Harrisonia perforata* (Blanco) Merr. (Simaroubaceae), and *Acacia megaladena* Desv. var. *megaladena* (Leguminosae, Mimosoidea)—all of which are variously aculeate. *Cissus repens* Lmk. (Vitaceae), *Dalbergia volubilis* Roxb. (Leguminosae, Papilionoideae), and *Combretum latifolium* Bl. (Combretaceae) are some frequent inermous counterparts. Treelets and shrubs, forming the lowest woody level up to 5 m high, were also common and dense, but have been reduced in density and diversity because of exposure and degradation. *Helicteres elongata* Wall. ex Boj. and *H. isora* L. (Sterculiaceae), *Ellipelopsis cherrevensis* (Pierre ex Fin. & Gagnep.) R. E. Fr. (Annonaceae), *Desmodium velutinum* (Willd.) DC. ssp. *velutinum* var. *velutinum*, *D. pulchellum* (L.) Bth., and *D. triangulare* (Retz.) Merr. (Leguminosae, Papilionoideae); and *Thespesia lampas* (Cav.) Dalz. & Gibbs. var. *lampas* (Malvaceae) are frequently encountered.

The herbaceous ground flora is usually absent during the dry months of November-May. After the first rains in May several deciduous herbs produce flowers before their leaves appear, e. g. *Hapaline benthamiana* Schott, *Amorphophallus krausei* Engl, and *A. paeoniifolius* (Denn.) Nicol. (all Araceae); *Geodorum siamensis* Rol. ex Dow. and *Nervilia aragoana* Gaud. (both Orchidaceae); *Curcuma zedoaria* (Berg.) Rosc., *Globba nuda* Craib, and *Kaempferia rotunda* L. (all Zingiberaceae). By the peak of the rainy season in August-September, the ground is covered with vegetation, both annual and deciduous species. Some common dicots include: *Andrographis laxiflora* (Bl.) Lindau, *Barleria cristata* L. and *B. strigosa* Willd., and *Neuracanthus tetragonostachys* Nees ssp. *tetragonostachys* (all Acanthaceae); *Blumea mollis* (D. Don) Merr., *Eupatorium odoratum* L. and *Pluchea polygonata* (DC.) Gagnep. (all Compositae); *Torrenia violacea* (Aza. ex Blanco) Pell. (Scrophulariaceae), *Sauropus quadrangularis* (Willd.) M. A. and *Phyllanthus virgatus* Forst. f. (both Euphorbiaceae).

Monocots are also common ground flora components and include: *Commelina paludosa* Bl. and *Cyanotis cristata* (L.) D. Don (both Commelinaceae); *Globba schomburgkii* Hk.f. var. *schomburgkii*, *Kaempferia roscoea* Wall., and *Zingiber kerrii* Craib (all Zingiberaceae); *Crinum wattii* Baker (Amaryllidaceae), and *Scleria terrestris* (L.) Fass. (Cyperaceae). Many Gramineae (grasses) are found in BB-DF and provide much fuel for the fires after they dry, none of which occur naturally, during the

Pterodophytes (ferns and allies) are often found in BB-DF with *Selaginella ostenfeldii* Hieron. (Selaginellaceae), *Lygodium flexuosum* (L.) Sw. (Schizaeaceae, a vine), *Cheilanthes tenuiflolia* (Burm. f.) Sw. (Parkeriaceae), and *Tectaria impressa* (Fee) Holtt. (Dryopteridaceae).

Many vines, both annual and deciduous, can be found in BB-DF.Dicot examples include *Zehneria wallichii* (Cl.) C. Jeff. (Cucurbitaceae), *Paederia pallida* Craib (Rubiaceae), *Ipomoea obscura* (L.) Ker-Gawl. and *Jacquemontia paniculata* (Burm. f.) Hall. f. var. *paniculata* (both Convolvulaceae). Some monocot vines are: *Smilax perfoliata* Lour. (Smilacaceae), *Dioscorea hispida* Denn. var. *mollissima* (Bl.) Pr. & Burk. (Dioscoreaceae), and *Stemona burkillii* Prain (Stemonaceae).

Vascular epiphytes are much less common now because of habitat destruction and extraction for cultivation. *Hoya kerrii* Craib, *H. verticillata* (Vahl) G. Don var. *verticillata*, and *Dischidia major* (Vahl) Merr. (all Asclepiadaceae); *Cymbidium aloifolium* (L.) Sw., *Aerides flacata* Lindl., and *Dendrobium signatum* Rchb. f. (all Orchidaceae); *Drynaria bonii* C. Chr., *Platycerium wallichii* Hk. f., and *Pyrrosia adnascens* (Sw.) Ching (all Polypodiaceae) are some species which are now rare because of commercial exploitation.

**Deciduous Dipterocarp-Oak, Seasonal, Hardwood Forest (DOF)**

BB-DF areas that have been cleared, burned, farmed, grazed, and eroded usually do not regenerate into the original facies. The consequent loss of coppicing trees, depletion of soil fertility and structure, and absence of animals which distribute seeds of BB-DF species result in a different kind of forest regrowth which is essentially a fire-maintained, climax secondary growth. I have called this man-induced growth deciduous, dipterocarp-oak, seasonal, hardwood forest since it is dominated by Dipterocarpaceae and Fagaceae (oaks et al.) [1,3]. DOF is always of lower stature, has less diversity, poorer soil, and lower number of different species than BB-DF. BB-DF often reverts to DOF, but I have not seen the opposite occurring. I suspect that soil degradation is the main reason which DOF will not develop into BB-DF—at least as long as humans continue to subvert the environment.

Dipterocarpaceae trees are common with: *Dipterocarpus obtusifolius* Tiejsm. ex Miq. var. *obtusifolius*, *D. tuberculatus* Roxb. var. *tuberculatus*, *Shorea obtusa* Wall. ex Bl. and *S. siamensis* Miq. var. *siamensis*. Fagaceae include *Quercus kerrii* Craib var. *kerrii*, *Q. kingiana* Craib, *Q. aliena* Bl.; *Lithocarpus polystachyus* (A. DC.) Rehd., and *Castanopsis argyrophylla* King ex Hk. f. DOF also includes many other trees which are usually found in BB-DF, viz. *Anneslea fragrans* Wall. (Theaceae), *Buchanania glabra* Wall. ex Hk. f., *B. lanzan* Spreng., *Gluta usitata* (Wall.) Hou, and *Lannea coromandelica* (Houtt.) Merr. (all Anacardiaceae); *Terminalia alata* Hey. ex Roth and *T. chebula* Retz. var. *chebula* (Combretaceae), *Eugenia cumini* (L.) Druce (Myrtaceae), *Dillenia parviflora* Griff. var. *kerrii* (Craib) Hoogl. (Dilleniaceae), and *Aporosa villosa* (Lindl.) Baill. (Euphorbiaceae).

Trees of lower stature include: *Tristaniopsis burmanica* (Griff.) Wils. & Wats. var. *rufescens* (Hance) Parn. & Lug. (Myrtaceae), *Craibiodendron stellatum* (Pierre) W.W. Sm. and *Vaccinium sprengelii* (D. Don) Sleum. (both Ericaceae); *Strychnos nuxvomica* L. (Loganiaceae); *Morinda tomentosa* Hey. ex Roth and *Wendlandia tinctoria* (Roxb.) DC. ssp. *floribunda* (Craib) Cow. (both Rubiaceae); *Antidesma acidum* Retz. and *Phyllanthus emblica* L. (both Euphorbiaceae).
Olax psittacorum (Willd.) Vahl (Olacaceae), Spatholobus parviflorus (Roxb.) O.K. (Leguminosae, Papilionoideae), Aganosma marginata (Roxb.) G. Don (Apocynaceae), Celastrus paniculatus Willd. (Celastraceae), and Cansjera rheedii J. F. Gmel. (Opiliaceae) are some common woody climbers in DOF. Shrubs and treelets include: Grewia abutilifolia Vent. ex Juss. (Tiliaceae); Gardenia obtusifolia Roxb. ex Kurz, Pavetta fruticosa L., Catunaregam spathulifolia Tirv., and Meyna pubescens (Kurz) Roby. (all Rubiaceae); Blinkworthia lycioides Choisy (Convolvulaceae); Premna herbacea Roxb. and P. nana Coll. & Hemsl. (Verbenaceae); Breynia fruticosa (L.) Hk. f. and B. glauca Craib (Euphorbiaceae). Phoenix loureiroi Kunth var. loureiroi (Palmae), with its characteristic pachycaulous habit, is occasionally found in DOF, often in burned places.

The herbaceous ground flora in DOF includes both annual and deciduous species. Some common annuals are: Crotalaria alata D. Don and C. albida Hey. ex Roth (Leguminosae, Papilionoideae), Sonerila erecta Jack (Melastomataceae); Borrella brachystemma (R. Br. ex Bth.) Valet., Hedyotis pinifolia Wall. ex G. Don, and Knoxia corymbosa Wildl. (all Rubiaceae); Striga asiatica (L.) O.K. (Scrophulariaceae); Cyperus flavidus Retz. and Rhynchospora rubra (Lour.) Mak. (both Cyperaceae); Aristida cunningiana Trin. & Rupr., Digitaria siamensis Henr., and Perotis indica (L.) O.K. (all Gramineae). Deciduous herbs are also abundant in DOF. Some frequently seen species are: Crotalaria nerifolia Wall. ex Bth. and Indigofera squalida Prain (both Leguminosae, Papilionoideae); Gynura pseudochina (L.) DC. (Compositae), Platostoma coloratum (D. Don) A. J. Pat. (Labiatae), Hypoxis aurea Lour.(Amaryllidaceae); Cyperus niveus Retz. and Scleria kerrii Turr. (both Cyperaceae); Apluda mutica L., Arundinella setosa Trin. var. setosa, Heteropogon contortus (L.) P. Beauv. ex Roem. & Schult., and Eulalia siamensis Bor (all Gramineae). Adiantum zollingeri Mett. ex Kuhn and Chelanthes belangeri (Bory) C. Chr. (both Parkeriaceae) are two common, deciduous pteridophytes found in DOF.

DOF vines are plentiful during the rainy season with Dunbaria bella Prain and Grona grahamii Bth. (both Leguminosae, Papilionoideae), Gymnema griffithii Craib (Asclepiadaceae), Aristolochia kerrii Craib (Aristolochiaceae), and Stemona kerrii Craib (Stemonaceae). The epiphytic and epilithic vascular flora is quite similar to that found in BB-DF and has also been similarly exploited and extirpated. As in less degraded and more intact BB-DF and DOF areas, there is usually an abundance of seedlings and saplings which are mostly destroyed or damaged by fire and cattle before the next rainy season.

Mixed Evergreen + Deciduous, Seasonal, Hardwood Forest (MXF)

Mixed Evergreen + Deciduous, Seasonal, Hardwood Forest (MXF)

In northern Thailand there is a distinct forest type situated above deciduous forests and below evergreen forest. In shale, metamorphic sandstone, and granite zones, such as Doi Sutep-Pui National Park, Chiang Mai Province, this MXF can be found from c. 600-1000 m elevation [5]. This MXF has often disappeared due to forest destruction, Doi Tung included. Limestone areas frequently have MXF at lower elevations, c. 450 m, up to the summit of Doi Chiang Dao (2175 m). This is also the situation on some of the riverine limestone on the east side of Doi Tung where MXF is found along the Pah He-Mae Gawk valley starting at c. 550 and on the summits Pah Hoong and Doi Pah He (both c. 1425 m). Other limestone areas, especially typically steep cliffs, have deciduous cover in the lowlands and evergreen facies above 1000 m.

MXF is best distinguished during the hot-dry season (March-May) when lowland deciduous forest are leafless and MXF areas partially so. Many MXF species, especially those epilithic on limestone, are only found in this habitat. Typical MXF trees on the limestone summits which are deciduous include:
Brassiosis hainla (B.-H. ex D. Don) Seem. and Schefflera pteleotii Merr. (both Araliaceae), Radermachera hainanensis Merr. (Bignoniaceae), Falconeria insigne Roy. (Euphorbiaceae, also in BB-DF), Acer chiangdaoensis Santi. (Aceraceae); Firmiana kerrii (Crab) Kosterm. and Sterculia villosa Roxb. (both Sterculiaceae), and Debregeasia wallichiana (Wedd.) Wedd. ssp. wallichiana (Urticaceae). Evergreen counterparts are Eriobotrya salwinensis Hand.-Mazz. (Rosaceae), Dicellostyles zizyphifolia (Griff.) Phup. (Malvaceae), and Buxus sp. (Buxaceae). Most of these species are common on the summits of the two limestone peaks.

Deciduous treelets include Brucea javanica (L.) Merr. (Simaroubaceae), Cipadessa baccifera (Roth) Miq. (Meliaceae), and Premna racemosa Wall. ex Schauer (Verbenaceae). Some evergreen representatives are: Capparis sabifolia Hk. f. & Th. (Capparaceae), Glycosmis cochinichinensis (Lour.) Pierre ex Engl. (Rutaceae); Agapetes megacarpa W.W. Sm., and A. lobii Cl. (Ericaceae), Myrsine semiserrata Wall. (Myrsinaceae), and Fagraea ceilanica Thunb. (Loganiaceae), Clematis fulvicoma Rehd. & Wils. (Ranunculaceae), Hiptage bullata Craib (Malpighiaceae), and Acacia megalandena Desv. var. garrettii Niels. (Leguminosae, Mimosoideae) are some deciduous woody climbers. Some common evergreen vines/woody climbers include: Tetrastigma cruciatum Craib & Gagnep. (Vitaceae), Secamone elliptica R. Br. ssp. elliptica (Asclepiadaceae), and a presently unidentified species of Thunbergia (Acanthaceae)—all found in mostly open, rugged limestone areas.

The herbaceous summit flora is mostly different from that found in other places in the project area. Most of these species are confined to this open, very rugged, and occasionally burnt habitat. The basic vegetation is MXF and in disturbed areas it is EG/BB. Dendrocalamus giganteus (Wall.) Munro (Gramineae, Bambusoideae), the only bamboo found in this habitat, is very common. I have not found flowering material of this species. Almost all of these summit species are deciduous and include mainly epiphytes and epiliths, with a few geophytes which grow in thin, black soil.

Impatiens salangensis T. Shim. (Basalminaceae) and Clerodendrum subscaposum Hemsl. (Verbenaceae) are common annual herbs. Deciduous dicot epiliths include Clematis fulvicoma Rehd. & Wils. (Ranunculaceae, a vine), Impatiens clavigera Hk. f. and I. kerriae Craib (Basalminaceae), Senecio scandens B. –H. ex D. Don and Vernonia attenuata DC. (both Compositae), Paraboea glabrisepala Burtt and Trisepalum prazeri Burtt (both Gesneriaceae), Argostemma verticillatum Wall. (Rubiaceae), and Peperomia tetraphylla (Forst. f.) Hk. & Arn. (Piperaceae). Deciduous epilithic monocots are also common with: Hedychium ellipticum Ham. ex J.E. Sm. (Zingibereaceae) and many Orchidaceae, viz. Coelogynne lactea Rchb. f., Eria bilobulata Seid., Habenaria furcifera Lindl., and Panisea uniflora (Lindl.) Lindl. Epilithic pteridophytes are frequent with Cheilanthes fragilis Hk. (Parkeriaceae), Asplenium interjectum Christ (Aspleniaceae), and Microsorum zippelii (Bl.) Ching (Polypodiaceae).

Epiphytic herbs are numerous and include some species which are also epiliths. Eria globulifera Seid., Pholidota articulata Lindl., Porpax lanii Seid. (all Orchidaceae); Araiostegia imbricata Ching and Davallodes membranulosum (Wall. ex Hk.) Copel. (both Davalliaceae), and Loxogamme involuta (D. Don) Presl (Polypodiaceae) are common. In addition to these vascular plants there are many algae, fungi, lichens, and bryophytes on the woody vegetation and rocks.
Primary, Evergreen, Seasonal, Hardwood Forest (EGF)

EGF is present on both bedrocks from c. 1000-1525 m—the summit of Doi Chang Moop which is the highest point in the project area. Aside from MXF zones and the epilithic limestone flora, EGF is uniform throughout the area. The structure and composition of EGF is similar on both granite and limestone bedrocks. Thousands of years of soil development and floristic stabilization has resulted in this primary, climax vegetation. Unfortunately, much of the original EGF has been destroyed or degraded. The most intact area is on Doi Tung and the east side and valley below Doi Chang Moop. EGF in most of Mae Fa Luang and Mai Sai Districts as well as adjacent areas in Myanmar have been devastated. EGF is distinct because of its appearance with a continuous canopy 20-30 m high and similarly dense understorey and ground flora. Biodiversity is highest in EGF and, in contrast to deciduous forests, EGF cannot recover from fire, extensive grazing, and constant human exploitation.

Typical canopy trees include: Schima wallichii (DC.) Korth. (Theaceae), Sarcosperma arboretum Bth. (Sapotaceae), Cinnamomum iners Reinw. ex Bl. (Lauraceae), Balakata baccata (Roxb.) Ess. (Euphorbiaceae); and several Fagaceae, e.g. Castanopsis armata (Roxb.) Spach., C. tribuloides (Sm.) A. DC., and Lithocarpus elegans (BL) Hatus. ex Soep.. Some understorey trees are Turpinia pomifera (Roxb.) Wall. ex DC. (Staphyleaceae), Semecarpus cochinchinensis Engl. (Anacardiaceae), Ormosia sumatrana (Miq.) Prain (Leguminosae, Papilionoideae), Heynea trijuga Roxb. ex Sims (Meliaceae); Phoebe lanceolata (Wall. ex Nees) Nees (Lauraceae). Baccarea ramiflora Lour. and Bridelia glauca Bl. (both Euphorbiaceae), and Ficus annuata Bl. (Moraceae).

Woody climbers are common with Mucuna macrocarpa Wall., Dalbergia rimosam Roxb., and D. stipulacea Roxb. (all Leguminosae, Papilionoideae); Rourea minor (Gaertn.) Leenh. ssp. minor (Connaraceae), and Tetrastigma laoticum Gagnep. (Vitaceae), with its distinctive, flat stems up to c. 15 cm diameter. Leea indica (Burm f) Merr. (Leeaceae), Melicope pteleifolia (Champ. ex Bth.) T. Hart. (Rutaceae); Psychotria monticola Kurz var. monticola and P. ophioxyloides Wall. (Rubiacéeae), Maesa permollis Kurz (Myrsinaceae), Strobilanthes rex Cl. (Acanthaceae), and Antidesma sootepense Craib (Euphorbiaceae) are some common treelets and shrubs found in shaded places.

The ground flora is mostly evergreen and in undisturbed places it is typically dense. Common representatives include: Mycetia glandulosa Craib and Ophiiorrhiza trichocarpone Bl. var. trichocarpone (both Rubiacéeae), Lepidagathis incurva Ham. ex D. Don (Acanthaceae), Pollia hasskarlii R. Rao (Commelinaceae), Zingiber smilesianum Craib (Zingiberaceae); and several pteridophytes, e.g. Brainea insignis (Hk.) J. Sm. (Blechnaceae) and Thelypteris parastica (L.) Fosb. (Thelypteridaceae). Seedlings and saplings also contribute to the density and diversity of the ground flora and understorey.

Upper water catchment valleys, ranging in elevation from 925-1352 m, include several ground flora species which are unique or most common to this habitat. The soil is typically moist, thick, and black on all bedrocks. Musa itinerans Chees. (Musaceae) and Phrynium capitatum Wild. (Marantaceae) are especially common and are good indicators of intact forest conditions. These areas are very important for overall forest stability and sustainability, and are very susceptible to environmental degradation. All of these water sources should have top conservation and protection priorities.
Weeds and Secondary Growth

After vegetation has been thinned or cleared leaving bare soil, primary invaders in the form of weeds (herbs) and secondary growth (woody species) rapidly colonise during the rainy season. The development of vegetation on vacant land depends on the degree and number of times an area has been denuded and/or burned. The fertility and quality of the soil plus its seed bank with seeds of primary invaders is directly related to the history of land abuse. Areas with one or intermittent clearance, i.e. swidden or slash and burn agricultural histories, rapidly regenerate into degraded forms of the original forest cover with coppices of many cut trees. Other areas, especially places that have been repeatedly farmed without fallow periods or with regrowth for only several years, are not able to readily restore forest cover since all vestiges of the original growth have been destroyed.

Weeds

Weeds grow rapidly on destroyed forested land and if these areas are not disturbed for several years a natural succession of permanent vegetation will develop. Weeds are very diverse and include mostly annual, often naturalized, species. Some examples of common annual alien dicots are: *Capparis ruditosperma* DC. and *C. viscosa* L. (Capparaceae), *Mimosa diplotricha* C. Wright ex Sauv. var. *diplotricha* and *M. pudica* L. (Leguminosae, Mimosoideae), *Aeschynomene americana* L. var. *americana* (Leguminosae, Papilionoideae); *Borreria laevis* (Lmk.) Griseb. and *Mitracarpus villosus* (Sw.) DC. (both Rubiaceae); *Ageratum conyzoides* L., *Eupatorium odoratum* L., and *Mikania cordata* (Burm. f.) B. L. Rob. (all Compositae); *Euphorbia heterophylla* L. and *E. hirta* L., *Phyllanthus amarus* Schum. & Thonn. and *P. urinaria* L. (all Euphorbiaceae). Native dicot weeds are also diverse and plentiful. *Portulaca oleracea* L. (Portulacaceae), *Drymaria diandra* Bl. (Caryophyllaceae), *Oxalis corniculata* L. (Oxalidaceae); *Glinus oppositifolius* (L.) A. DC. and *Mollugo pentaphylla* L. (both Aizoaceae), *Hedyotis cormbosa* (L.) Lmk. (Rubiaceae); *Blumea balsamifera* (L.) DC., *B. mollis* (D. Don) Merr., *Conyza sumatrensis* (Retz.) Walk., *Gynura nepalensis* DC., *Laggera pterodonta* (DC.) Sch. Bip. ex Oliv., and *Vernonia cinerea* (L.) Less. var. *cinerea* (all Compositae); *Lindernia crustacea* (L.) F. Muell. var. *crustacea* (Scrophulariaceae), and *Alternanthera sessilis* (L.) DC. var. *sessilis* (Amaranthaceae) are common examples.

Native monocot weeds include: *Commelina benghalensis* L. (Commelinaceae), *Dioscorea bulbifera* L. (Dioscoreaceae), a vine; *Cyperus cyperoides* (L.) O.K., *C. kyllingia* Endl., and *Fimbristyliis dichotoma* (L.) Vahl ssp. *dichotoma* (all Cyperaceae); *Chloris barbata* Sw., *Digitaria setosa* Roth ex Roem. & Schult. var. *setigera*, *Eleusine indica* (L.) Gaertn., *Imperata cylindrica* (L.) P. Beauv. var. *major* (Nees) C. E. Hubb. ex Hubb. & Vaugh., *Phragmites vallatoria* (Pluk. ex L.) Veldk., and *Thysanolaena latifolia* (Roxb. ex Horn.) Honda (all Gramineae). *Pteridium aquilinum* (L.) Kuhn ssp. *aquilinum* var. *wightianum* (Ag.) Try. (Dennstaedtiaceae) is an aggressive fern which tolerates fire and forms dense growth which shades out succession. *Dicranopteris linearis* (Burm. f.) Underw. var. *linearis* (Gleicheniaceae), another evergreen pteridophyte, is commonly found on soil embankments and eroded places.
**Secondary Growth**

Some woody species also grow rapidly in open, abandoned, weedy places. These are fast-growing, short-lived species which are beneficial in providing initial canopy cover which is necessary for plant succession, erosion control, as well as providing food and refuges for animals. Some common trees are: *Anthocephalus chinensis* (Lmk.) A. Rich. ex Walp. (Rubiaceae), *Callicapa arborea* Roxb. var. *arborea* (Verbenaceae), *Broussonetia papyrifera* (L.) Vent., *Ficus fistulosa* Reinw. ex Bl. and *F. hispida* L. f. var. *hispida* (all Moraceae); *Muntigia calabura* L. (Tiliaceae), which is naturalized; *Oroxylum indicum* (L.) Vent. (Bignoniaceae), and *Trema orientalis* (L.) Bl. (Ulmaceae). *Lantana camara* L. (Verbenaceae) and *Eupatorium adenophorum* Spreng. (Compositae), shrubs; and *Mimosa pigra* L. (Leguminosae, Mimosoideae), a treelet, are all naturalized and often form dense thickets which eliminate native species. *Melastoma malabathricum* L. ssp. *malabathricum* (Melatomataceae), a shrub or treelet, and *Rubus blepharoneurus* Card. (Rosaceae), scandent, both grow in open, disturbed places.

**Pinus kesiya Roy. ex Gord. (Pinaceae), 3-needled Pine**

This native species was formerly abundant in ridges above 1000 m on granite bedrock, but has been virtually eliminated by uncontrolled deforestation during the past century. It was used by the Royal Forest Department to cover many barren, deforested areas on Doi Tung as well as in may other places in northern Thailand. This species, albeit creating rapid regrowth, is totally unsuitable for several reasons. Natural areas with this species are in evergreen hardwood + pine forest, with pines never being more than half as much as the evergreen hardwoods. Dense monocultures of pine have resulted in a low (acidic) soil pH which has prevented other species from developing as well as slowing the decomposition of pine litter on the ground. This organic litter is a very serious fire problem in all places where pines have been planted. Consequent growth of these pine plantations, all without culling or maintenance, has also shaded out succession. As the pines mature there has also been an obvious decrease in biodiversity and water, combined with increases in erosion which has caused recent flash-flooding, landslides, and siltation of waterways.

The planting of pine trees on Doi Tung limestone has not been successful because of the inherent incompatibility of calcareous (basic) bedrock and acid-loving pines. This is a fundamental concept which any competent forester should have realized prior to making such a serious and wasteful replanting error. It is recommended that all pine areas on granite and metamorphic sandstone bedrocks on Doi Tung be thinned by at least 50% so that there is less shade and acidic biomass available. The ground litter must be removed so that the soil pH can be increased to a level similar to that found in natural EG + Pine areas in the region. Planting with native species found in EG + Pine forest should be done in accordance to the natural tree diversity in these forests. All pines on limestone should be removed and the slopes planted with native species found on nearby undisturbed forest.
Taxonomic notes

Doi Tung, because of its mainly granite and limestone bedrocks, broad elevation range of c. 450-c. 1500 m, diverse remnant vegetation, and specific habitats, such as the summit of Pah Hoong, is a very botanically rich area. In addition to many species which are either rare or poorly known, other species of special botanical interest have been collected there.

Sauropus poomae Welz. & Chay. (Euphorbiaceae) was collected from Doi Tung on 1 March 1997 and described as a new species in 2001. Dr. Pranee Palee collected topotype material of this very rare species while collecting with me there. I have been able to collect four species which are new records for Thai flora--all from Pah Hoong. These include:

1. Eriobotrya salwinensis Hand.-Mazz. (Rosaceae), an evergreen treelet or tree up to 6 m tall [6]
2. Wendlandia ternifolia Cow. (Rubiaceae), an evergreen, epilithic treelet or slenderly scandent species [6]
3. Trisepalum prazeri Burtt (Gesneriaceae), a deciduous, epilithic herb-shrub, and
4. Premna subcapitata Rehd. (Verbenaceae), a deciduous, epilithic shrub 1-1.5 m tall.

In addition I have also collected Clerodendrum subscaposum Hemsl. (Verbenaceae) on the summit of Pah Hoong. This species was reported by Leeratiwong, C. & P. Chantaranothai [7] as a new record for the Thai flora based on previous specimens from Doi Tung as well as Doi Chiang Dao. This is a deciduous herb which grows in exposed, rocky areas on the summit.

Sageretia cordifolia Tard. (Rhamnaceae), described in 1946 from material from Laos, is only known in Thailand from Doi Tung. I reported this species as a new record for the Thai flora [8]. CMU Herbarium now has 4 specimens of this species, all from the summit of Pah Hoong. It is an evergreen woody climber which flowers in September-October and fruits in November-December.

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Caroline Pott arranged for my first visit to Doi Tung in November 2004 and many rewarding subsequent trips. Miss Ganchna Wonggunah, Miss Soontaree Kornchalert, and Miss Sudajit Manajit of the Bryology Laboratory, CMU, kindly identified the bryophyte specimens I collected on Doi Tung. Miss Suphnnika Intanon, a CMU Biology student, is thanked for organizing my notes and assiduously typing the database information on a computer. Ricky Ward, a CMU Herbarium collaborator, is thanked for graphically presenting the climatic data given to me by the Doi Tung Development Project.

References


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Plants of Doi Tung

Notes

Habit:
  t = tree           s = shrub           sc = scendent
  l = treelet       v = vine            cr = creeping
  wc = woody climber h = herb

Aped:
  a = annual        pe = perennial evergreen
  pd = perennial deciduous ped = perennial evergreen + deciduous

Life mode:
  aqu = aquatic     gro = ground        rhe = rheophyte
  car = carnivorous hyp = hyperparasite sap = saprophyte
  cul = cultivated  int = introduced/not native
  str = strangler   epi = epiphyte     nat = naturalized
  wee = weed        epl = epilithic

Abundance:
  0 = Probably extirpated
  1 = Down to a few individuals, in danger of extirpation
  2 = Rare
  3 = Medium abundance
  4 = Common, but not dominant
  5 = Abundant

Habitat:
  dof = deciduous dipterocarp+oak forest
  do/pine = dipterocarp-oak+pine forest
  bb/df = bamboo+deciduous forest
  mxf = mixed evergreen+deciduous forest
  eg/bb = evergreen with bamboo forest
  da = disturbed areas, roadsides
  eg/pine = evergreen with pine forest
  sg = secondary growth

Bedrock:
  gr = granite      ls = limestone      ss = sandstone
Table 1. List of plant species under phylum angiospermae surveyed at Doi Tung, Chiang Rai Province.

<table>
<thead>
<tr>
<th>Species</th>
<th>Family</th>
<th>Habit</th>
<th>Aped</th>
<th>Life Mode</th>
<th>Abundance</th>
<th>Bedrock</th>
<th>Lower</th>
<th>Upper</th>
<th>Flowering</th>
<th>Fruiting</th>
<th>Leafing</th>
<th>Collected</th>
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<td>oc</td>
<td>my-dc</td>
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<td>1425</td>
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<td>pe</td>
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<tr>
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<td>ja-fb</td>
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<td>da, sg</td>
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<td>gro 3</td>
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<td>gro 3</td>
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<td>gr</td>
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<td>gr</td>
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<td>eg/pine, eg/bb, gr</td>
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<td>1200, 1325, sp-fb, oc-fb, my-fb, flowers</td>
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<td><strong>Andrographis laxiflora</strong> (Bl.) Lindau</td>
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<td><strong>Anneslea fragrans</strong> Wall.</td>
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<td>1200, 1375, ag-oc, my-dc, flowers</td>
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<td><strong>Antidesma bunius (L.)</strong> Spreng. var. bunius</td>
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<td>egf, eg/bb, gr, ls</td>
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<td><strong>Antidesma montanum</strong> Bl. var. montanum</td>
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<td>egf, eg/bb, ls</td>
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<td>egf, eg/bb, gr, ls</td>
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<td><strong>Aphanamixis polyastachya</strong> (Wall.) R.Parker</td>
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<td>egf, eg/bb, gr</td>
<td>1000, 1400, ap-my, ja-dc, fruits</td>
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<td>da, sg, gr, ls, sh, ss</td>
<td>800, 1525, oc-dc, nv-ja, my-ja, flowers</td>
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<tr>
<td><strong>Aporosa octandra</strong> (B.-H. ex D.Don) Vick. var. octandra</td>
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<td>t, pd, gro, 3</td>
<td>eg/bb, da, gr, ls</td>
<td>1200, 1375, my-jn, my-dc, fruits</td>
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<tr>
<td><strong>Aporosa octandra</strong> (B.-H. ex D.Don) Vick. var. yunnanensis (Pax &amp; Hoffm.) Schot</td>
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<td>t, pd, gro, 3</td>
<td>egf, gr</td>
<td>1100, 1450, my-jn, ap-dc, fruits</td>
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<td>1425</td>
<td>ja-dc</td>
<td>ja-dc</td>
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<td>ls</td>
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<td>a</td>
<td>epl</td>
<td>3</td>
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<td>ls</td>
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<td>1425</td>
<td>ji-jl</td>
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<td>Argyreia aggregata (Roxb.) Choisy</td>
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<td>pd</td>
<td>gro</td>
<td>3</td>
<td>egf/bb, egf,da,sg</td>
<td>ls</td>
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<td>1500</td>
<td>oc-ja</td>
<td>my-dc</td>
<td>flowers</td>
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<td>gro</td>
<td>3</td>
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<td>gro, wee</td>
<td>3</td>
<td>da, sg</td>
<td>gr,ls</td>
<td>1200</td>
<td>1525</td>
<td>sp-dc</td>
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<td>a</td>
<td>epl</td>
<td>3</td>
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<td>ls</td>
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<td>600</td>
<td>sp-oc</td>
<td>nv</td>
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<td>400</td>
<td>1400</td>
<td>sp-oc</td>
<td>nv-ja</td>
<td>my-dc</td>
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<td>Moraceae</td>
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<td>gro</td>
<td>3</td>
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<td>1500</td>
<td>my, da</td>
<td>my-jn</td>
<td>ja-dc</td>
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<td>pd</td>
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<td>da, sg</td>
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<td>1200</td>
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<td>my</td>
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<td>1300</td>
<td>my-jn</td>
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<td>gro</td>
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<td>1350</td>
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<td>ls</td>
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<td>fb-mr</td>
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<td>ls</td>
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<td>gro, par</td>
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<td>gro</td>
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<td>ls</td>
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<td>Phenology</td>
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<td>ag-sp sp-oc ja-dc</td>
<td>flowers♂♀, fruits</td>
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<td>bb/dg, eg/bb</td>
<td>gr, ls</td>
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<td>Bauhinia ornata Kurz var. kerrii (Gagnep.) K. &amp; S.S. Lar.</td>
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<td>wc pe gro</td>
<td>3</td>
<td>egf, da</td>
<td>ls</td>
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<td>fb-mr ja-dc</td>
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<td>ag-oc oc-nv my-dc</td>
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<td>gr</td>
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<td>Blumea lacera (Burm.f.) DC.</td>
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<td>3</td>
<td>eg/bb</td>
<td>gr</td>
<td>1000 1500</td>
<td>ja-fb fb-mr jn-mr flowers</td>
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<td>Blumea napfoka DC.</td>
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<td>gr</td>
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<td>ja-fb fb-mr jn-mr flowers</td>
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<td>gr</td>
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<td>oc-ja ja-dc ja-dc fruits</td>
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<td>1200 1525</td>
<td>sp-oc ja-dc flowers♂♀</td>
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<tr>
<td>Boehmeria hamiltoniana Wall. ex Wedd.</td>
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<td>ja-dc ja-dc flowers♂♀</td>
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<tr>
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<td>Boehmeria penduliflora Wedd. ex Long.</td>
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<td>egf,da,sg</td>
<td>gr</td>
<td>600 900</td>
<td>oc-nv ja-dc flowers♂♀</td>
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</table>

**Note:** The table provides a list of plant species along with their families, distributions, phenologies, and notes on flowers and fruits. The symbols used are: eg = egocentric, bb = bicolored, g = green, gr = gray, ls = leaf size, mxf = mixed flowers, da = dark, dg = dark green, ws = white, sp = spiny, fb = fibrous, mr = mossy, dc = deciduous, my = mycorrhizal, oc = other colors, ja = jaundiced, ag = aglowing, ap = apetalous, sp = spiny, sp-oc = spiny or other colors, sp-nv = spiny or non-vascular, my-dc = mycorrhizal deciduous, ja-dc = jaundiced deciduous, flowers♂♀ = flowers♂♀, fruits = fruits.
<table>
<thead>
<tr>
<th>Common Name</th>
<th>Family</th>
<th>Habitat</th>
<th>Flowering</th>
<th>Fruits</th>
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<tr>
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<td>3 egf, da, sg</td>
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<td><strong>Boehmeria platyphylla</strong></td>
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<td><strong>Borreria repens DC.</strong></td>
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<td>clffs</td>
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<td>gr 1200 1400</td>
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<td>clffs</td>
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<td>sg</td>
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<td><strong>Callerya atropurpurea (Wall.) Schot</strong></td>
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<td>t, pe, gro</td>
<td>3 egf</td>
<td>gr 1100 1500</td>
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**Notes:**
- sp: summer, oc: autumn, nv: November, dc: December, my: May
- sp-nv: summer to November, ja-dc: January to December
- Ag-sp: Agasta, sp: spiny, bb: broad, df: dense
- egf: eg, da: dense, pg: problematic
- gr: grassland
- mxf: mountainous forest
- eg/bb: eg, dense, bb: broad
- eg/pine: eg, pine
- egf, da, pg: eg, dense, problem, egf: eg, dense
- egf, pg, bb: eg, dense, broad, pg: problematic
- egf, bb, da: eg, broad, dense, da: dense
<table>
<thead>
<tr>
<th>Scientific Name</th>
<th>Family</th>
<th>Genus</th>
<th>Subfamily</th>
<th>Tribe</th>
<th>Habit</th>
<th>Growth Form</th>
<th>Height cm</th>
<th>Diameter cm</th>
<th>Habitats</th>
<th>Flowers</th>
<th>Fruits</th>
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<tr>
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<td>ja-dc</td>
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<td>(fb)ap-my</td>
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<td>1300</td>
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<td>ss</td>
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<td>1100</td>
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<td>Flowering Period</td>
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<td>t, pd, gro</td>
<td>3</td>
<td>eg/bb</td>
<td>gr</td>
<td>900 1400 ja fb my-fb</td>
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<td>600 1300 oc nv-dc my-dc</td>
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<td>Combretum griffithii Heur. &amp; M. A. Combretaceae</td>
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<td>Cyrtococcum accrescens (Trin.)</td>
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<td>Dendrocalamus giganteus (Wall.) Munro</td>
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<td>giganteus</td>
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<td>Dendrocalamus hamiltonii Nees &amp; Arn. ex Munro</td>
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<td>Dendrocnide sinuata (Bl.) Chew</td>
<td>Urticaceae</td>
<td>Dendrocnide</td>
<td>sinuata</td>
<td>t pe gro 2 rocks in mxf cliffs, da gr,ls 550 700 oc-nv occ-nv ja-dc</td>
<td>flowers♀♂, fruits</td>
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<tr>
<td>Dendrophthoe kernii (Crab) Barl.</td>
<td>Loranthaceae</td>
<td>Dendrophthoe</td>
<td>kernii</td>
<td>s pe epi, par 2 eg/bb ls 1200 1425 nv-ja fb-mr ja-dc</td>
<td>flowers♀♂, fruits</td>
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<td>Derris tonkinensis Gagnep.</td>
<td>Leguminosae, Papilionoideae</td>
<td>Derris</td>
<td>tonkinensis</td>
<td>wc pd epl 3 rocks in bb/df cliffs ls 400 800 my-dc</td>
<td>flowers♀♂, fruits</td>
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<td>Desmodium heterocarpon (L.) DC. ssp. heterocarpon</td>
<td>Leguminosae, Papilionoideae</td>
<td>Desmodium</td>
<td>heterocarpon</td>
<td>h pe gro 3 bb/df, eg/pine, eg/bb gr 700 1400 sp-nv oc-dc ja-dc</td>
<td>flowers♀♂, fruits</td>
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<td>Desmodium laxiflorum DC. ssp. laxiflorum</td>
<td>Leguminosae, Papilionoideae</td>
<td>Desmodium</td>
<td>laxiflorum</td>
<td>h pe gro 3 bb/df, eg/bb gr 1000 1400 oc-nv my-jl ja-fb</td>
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<td>Desmodium multiflorum DC.</td>
<td>Leguminosae, Papilionoideae</td>
<td>Desmodium</td>
<td>multiflorum</td>
<td>l pd gro 3 eg/bb, da, sg gr 1000 1400 ja-fb my-fb</td>
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<td>Desmodium obtatum Baker ex Kurz</td>
<td>Leguminosae, Papilionoideae</td>
<td>Desmodium</td>
<td>obtatum</td>
<td>l pe gro 3 eg/bb gr 1000 1300 oc-dc dc-ja jn-ja</td>
<td>flowers♀♂, fruits</td>
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<td>Desmodium repandum (Vahl) DC.</td>
<td>Leguminosae, Papilionoideae</td>
<td>Desmodium</td>
<td>repandum</td>
<td>v pe gro 3 da, sg gr 1000 1525 oc-nv dc-ja ja-dc</td>
<td>flowers♀♂, fruits</td>
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<td>Desmodium triflorum (L.) DC.</td>
<td>Leguminosae, Papilionoideae</td>
<td>Desmodium</td>
<td>triflorum</td>
<td>h pe gro, wee 3 eg/pine, eg/bb, da, sg gr 700 1400 oc-dc ja-fb ja-dc</td>
<td>flowers♀♂, fruits</td>
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<td>Desmodium triquetrum (L.) DC. ssp. triquetrum</td>
<td>Leguminosae, Papilionoideae</td>
<td>Desmodium</td>
<td>triquetrum</td>
<td>l pe gro 3 da, eg/bb gr, ls 1000 1350 oc-dc ja-dc ja-dc</td>
<td>flowers♀♂, fruits</td>
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<td>Desmodium velutinum (Willd.) DC.</td>
<td>Leguminosae, Papilionoideae</td>
<td>Desmodium</td>
<td>velutinum</td>
<td>s pe gro 3 egf,da,sg gr 1000 1400 oc-dc ja-dc ja-dc</td>
<td>flowers♀♂, fruits</td>
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<td>Desmos (Dasymaschalon yunnanense (Hu) Ban)</td>
<td>Annonaceae</td>
<td>Desmos</td>
<td>yunnanense</td>
<td>t,l pe gro 3 egf ls 1200 1400 oc-nv ja-dc</td>
<td>flowers♀♂, fruits</td>
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<td>Scientific Name</td>
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<tr>
<td>Dianella ensifolia (L.) DC.</td>
<td>Liliaceae</td>
<td>h, pe, gro, egf, eg/bb</td>
<td>gr</td>
<td>1000</td>
<td>1500</td>
<td>j-lsp, ja-sp</td>
<td>ja-dc, fruits</td>
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<td>Dicellostyles zizyphifolia (Griff.) Phup.</td>
<td>Malvaceae</td>
<td>t, pe, gro, egf, eg/bb</td>
<td>gr</td>
<td>1300</td>
<td>1400</td>
<td>nv-dc, ja-dc</td>
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<tr>
<td>Dichorisandra thyrsiflora Mik.</td>
<td>Commelinaceae</td>
<td>h, pe, gr, egf, eg/bb</td>
<td>gr</td>
<td>1000</td>
<td>1000</td>
<td>ja-dc, ja-dc, ja-dc</td>
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<td>Dichroa febrifuga Lour.</td>
<td>Saxifragaceae</td>
<td>l, pe, gro, egf, eg/bb, egf</td>
<td>ls</td>
<td>1200</td>
<td>1400</td>
<td>my-jn, ja-dc</td>
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<td>Dichrocephala integrifolia (Lmk.) DC.</td>
<td>Compositae</td>
<td>h, a, gro, wee, egf, da, gr, ls</td>
<td>1200</td>
<td>1375</td>
<td>ap-ja, my-jn, ap-dc</td>
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<tr>
<td>Didymocarpus tristis Craib</td>
<td>Gesneriaceae</td>
<td>h, pe, gro, egf, eg/bb</td>
<td>gr, ls</td>
<td>1250</td>
<td>1400</td>
<td>j-lag, sp-oc, jn-dc</td>
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<td>Dienia ophrydis (Koen.) Orm. &amp; Seid.</td>
<td>Orchidaceae</td>
<td>h, pe, gro, da, egf, eg/bb</td>
<td>gr</td>
<td>1100</td>
<td>1350</td>
<td>j-lag, sp-oc, my-dc</td>
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<tr>
<td>Digitaria radicosa (Presl) Miq.</td>
<td>Gramineae</td>
<td>h, a, gro, wee, da, egf, eg/bb</td>
<td>gr</td>
<td>800</td>
<td>1200</td>
<td>sp-ja, oc-fb, jn-fb</td>
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<tr>
<td>Digitaria setigera Roth ex Roem. &amp; Schult. var. setigera</td>
<td>Gramineae</td>
<td>h, a, gro, wee, da, gr</td>
<td>1000</td>
<td>1500</td>
<td>ja, ap-ja, my-dc</td>
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<tr>
<td>Dillenia parviflora Griff. var. kerrii (Craib) Hoog.</td>
<td>Dilleniaceae</td>
<td>h, a, gro, we, da, gr, ls</td>
<td>1200</td>
<td>1375</td>
<td>ap-ap, my-dc, my-fb</td>
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<tr>
<td>Didymocarpus tristis Craib</td>
<td>Gesneriaceae</td>
<td>h, pe, gro, egf, eg/bb</td>
<td>gr, ls</td>
<td>800</td>
<td>1525</td>
<td>oc-jn, my-fb</td>
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<td>Dinius racemosus (Wall.) Sweet</td>
<td>Convolvulaceae</td>
<td>v, a, gro, egf, da, gr</td>
<td>ls</td>
<td>1100</td>
<td>1500</td>
<td>oc-nv, my-dc</td>
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<tr>
<td>Dinobloa macellandii (Munro) Gamb.</td>
<td>Bambusoideae</td>
<td>h, pe, gro, egf, da, gr, eg/bb</td>
<td>gr</td>
<td>1100</td>
<td>1450</td>
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<td>Dioscorea alata L.</td>
<td>Dioscoreaceae</td>
<td>v, pe, gro, da, egf, eg/bb</td>
<td>gr</td>
<td>800</td>
<td>1525</td>
<td>oc-jn, my-dc</td>
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<tr>
<td>Dioscorea birmanica Pr. &amp; Burk.</td>
<td>Dioscoreaceae</td>
<td>v, pe, gro, da, egf, eg/bb</td>
<td>gr</td>
<td>1300</td>
<td>1425</td>
<td>j-lag, sp-oc, my-dc</td>
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<tr>
<td>Dioscorea bulbifera L.</td>
<td>Dioscoreaceae</td>
<td>v, pe, gro, da, egf, eg/bb</td>
<td>gr</td>
<td>1100</td>
<td>1525</td>
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<tr>
<td>Dioscorea glabra Roxb. var. glabra</td>
<td>Dioscoreaceae</td>
<td>v, pe, gro, da, egf, eg/bb</td>
<td>gr</td>
<td>1000</td>
<td>1500</td>
<td>oc-nv, ja-dc</td>
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<tr>
<td>Dioscorea hamiltoni Hk. f.</td>
<td>Dioscoreaceae</td>
<td>v, pe, gro, da, egf, eg/bb</td>
<td>gr</td>
<td>1200</td>
<td>1500</td>
<td>oc-nv, dc-fb, my-fb</td>
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<tr>
<td>Dioscorea hispida Denn. var. mohneti (Bl.) Pr. &amp; Burk.</td>
<td>Dioscoreaceae</td>
<td>v, pe, gro, da, egf, eg/bb</td>
<td>gr, ls</td>
<td>900</td>
<td>1400</td>
<td>my-jn, my-fb</td>
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<tr>
<td>Dioscorea pentaphylla L. var. communis Pr. &amp; Burk.</td>
<td>Dioscoreaceae</td>
<td>v, pe, gro, da, egf, eg/bb</td>
<td>gr</td>
<td>1000</td>
<td>1525</td>
<td>oc, jn-dc</td>
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<tr>
<td>Dioscorea praereti Pr. &amp; Burk.</td>
<td>Dioscoreaceae</td>
<td>v, pe, gro, da, egf, eg/bb</td>
<td>gr</td>
<td>1200</td>
<td>1350</td>
<td>sp-oc, my-dc</td>
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<tr>
<td>Dioscorea rockii Pr. &amp; Burk.</td>
<td>Dioscoreaceae</td>
<td>v, pe, gro, da, egf, eg/bb</td>
<td>gr</td>
<td>1300</td>
<td>1425</td>
<td>j-lag, sp-oc, my-dc</td>
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<td>Diospyros lotus L.</td>
<td>Ebenaceae</td>
<td>t, pe, cul, int, egf</td>
<td>gr</td>
<td>1400</td>
<td>1400</td>
<td>fb-mr, ja-dc, native to Japan</td>
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<td>Diospyros martabanica Cl.</td>
<td>Ebenaceae</td>
<td>t, pe, gro, egf, eg/bb, egf</td>
<td>gr</td>
<td>1100</td>
<td>1400</td>
<td>fb-mr, ja-dc</td>
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<td>Diospyros winitii Flet.</td>
<td>Ebenaceae</td>
<td>t, pe, gro, egf, eg/bb, egf</td>
<td>gr</td>
<td>1200</td>
<td>1375</td>
<td>ap-ap, ja-dc</td>
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<td>Disporopsis longifolia Craib</td>
<td>Liliaceae</td>
<td>h, pe, gro, egf, eg/bb</td>
<td>gr</td>
<td>1000</td>
<td>1400</td>
<td>my-jn, ap-dc</td>
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<td>Disporum calcaratum Wall. ex G. Don</td>
<td>Liliaceae</td>
<td>h, pe, gro, egf, eg/bb</td>
<td>gr</td>
<td>1000</td>
<td>1500</td>
<td>my-dc</td>
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<td>Scientific Name</td>
<td>Family</td>
<td>Distribution</td>
<td>Elevation</td>
<td>Flowers/Fruits</td>
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<tr>
<td>Docynia indica</td>
<td>Rosaceae</td>
<td>t pe gro cul, int 2</td>
<td>egf, da gr</td>
<td>1100 1350 ja-fb jn-ap flowers</td>
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<td>Dolichos triobus L.</td>
<td>Leguminosae, Papilionoideae</td>
<td>v a gro 2</td>
<td>mxf, da, sg</td>
<td>gr, ls 1000 1450 ja-fb jn-ap flowers</td>
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<td>Dracaena angustifolia Roxb.</td>
<td>Agavaceae</td>
<td>l pe gro 2</td>
<td>rocks in egf, mxf</td>
<td>gr, ls, sh 500 1400 oc-nv ja-dc</td>
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<td>Dracaena loureiri Gagnep.</td>
<td>Agavaceae</td>
<td>pe pe epl 2</td>
<td>rocks in egf, mxf cliffs</td>
<td>ls 500 1300 ja-dc</td>
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<td>Drymaria diandra Bl.</td>
<td>Rosaceae</td>
<td>h a gro, wee 3</td>
<td>eg/pine, da, sg</td>
<td>gr 700 1500 ag-fb sp-fb my-fb flowers</td>
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<td>Drypetes virens</td>
<td>Leguminosae</td>
<td>t pe gro 2</td>
<td>egf, mxf, gr, ls</td>
<td>gr 1200 1525 sp-dc oc-ja ja-dc flowers</td>
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<tr>
<td>Elaeagnus conferta Roxb.</td>
<td>Elaeagnaceae</td>
<td>wc pe gro cul, int 2</td>
<td>streams in eg/bb</td>
<td>gr 1000 1250 sp-nv oc-dc ja-dc flowers</td>
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<tr>
<td>Elaeocarpus floribundus Bl. var. floribundus</td>
<td>Elaeocarpaceae</td>
<td>t pe gro 3</td>
<td>egf, eg/bb gr, ls</td>
<td>1000 1400 my sp-oc ja-dc flowers, fruits</td>
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<tr>
<td>Echinochloa colona (L.) Link</td>
<td>Gramineae</td>
<td>h pe aqu, gro 3</td>
<td>ponds in bb/df</td>
<td>ls 400 600 ag-oc sp-nv ja-dc flowers</td>
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<tr>
<td>Echinochloa stagnina (Retz.) P. Beauv.</td>
<td>Gramineae</td>
<td>h pe gro, wee 3</td>
<td>da, sg</td>
<td>gr, ls 1200 1525 sp-dc oc-ja ja-dc flowers</td>
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<tr>
<td>Elatostema monandrum (Ham. ex D. Don) Hara</td>
<td>Urticaceae</td>
<td>h pd epl 3</td>
<td>rocks in mxf, egf</td>
<td>ls 1300 1425 sp-oc my-dc fruits</td>
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<tr>
<td>Elatostema cyanandriformis (Zoll. &amp; Mor.) Miq.</td>
<td>Urticaceae</td>
<td>h a gro, epl 3</td>
<td>rocks in mxf, egf</td>
<td>gr 1000 1250 sp-nv oc-dc ja-dc flowers</td>
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<tr>
<td>Elatostema salvinioides W. T. Wang</td>
<td>Urticaceae</td>
<td>h pd epl 2</td>
<td>streams in egf, wet areas in egf</td>
<td>gr, ls 1200 1350 nv-ja ja-dc flowers</td>
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<tr>
<td>Entada rheedii Spreng.</td>
<td>Leguminosae, Mimosoideae</td>
<td>wc pd gro 3</td>
<td>egf</td>
<td>gr 900 1500 ja-ap fb-dc flowers, imm. fruits</td>
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<td>Gomphostemma cinnatum Wall. ex Bth.</td>
<td>Labiatae</td>
<td>h, a</td>
<td>2</td>
<td>streams in mxf</td>
<td>ls 650 700 oc my-dc flowers</td>
<td></td>
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<tr>
<td>Gomphostemma lucidum Wall. ex Bth.</td>
<td>Labiatae</td>
<td>h, pe</td>
<td>2</td>
<td>rocks in eg/bb</td>
<td>ls 1350 1375 ag ja-dc flowers</td>
<td></td>
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<tr>
<td>Gomphostemma stroblinum Wall. ex Bth. var. viridis (Wall. ex Bth.)</td>
<td>Labiatae</td>
<td>h, pe</td>
<td>2</td>
<td>mxf, eg/bb</td>
<td>gr, ls 1300 1425 sp ja-dc flowers</td>
<td></td>
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<tr>
<td>Gomphostemma wallichii Pr.</td>
<td>Labiatae</td>
<td>h, pd</td>
<td>2</td>
<td>streams in egf/bb</td>
<td>gr 1000 1300 oc-nv my-fb flowers</td>
<td></td>
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<tr>
<td>Goniothalamus chelensis Hu</td>
<td>Annonaceae</td>
<td>t, l, pe</td>
<td>2</td>
<td>streams, wet areas in egf</td>
<td>gr, ls 1325 ja-dc flowers</td>
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<tr>
<td>Gouania javanica Miq.</td>
<td>Rhamnaceae</td>
<td>wc, pd</td>
<td>3</td>
<td>rocks in mxf</td>
<td>cliffs</td>
<td>ls 1400 1425 sp nv-dc my-dc flowers, fruits</td>
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<tr>
<td><strong>Grewia lacei</strong> Drum. &amp; Craib</td>
<td>Tiliaceae</td>
<td>s</td>
<td>pd</td>
<td>gro</td>
<td>3</td>
<td>eg/bb, da</td>
<td>ls</td>
<td>1000</td>
<td>1400</td>
<td>sp-oc</td>
<td>my-dc</td>
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<tr>
<td><strong>Gynostemma pentaphyllum</strong> (Thunb.) Mak.</td>
<td>Cucurbitaceae</td>
<td>v</td>
<td>a</td>
<td>gro</td>
<td>3</td>
<td>egf, da</td>
<td>gr, ls</td>
<td>1200</td>
<td>1375</td>
<td>my-jn</td>
<td>my-dc</td>
</tr>
<tr>
<td><strong>Gynura longifolia</strong> Kerr</td>
<td>Compositae</td>
<td>v</td>
<td>pd</td>
<td>gro</td>
<td>2</td>
<td>streams in egf, eg/bb</td>
<td>gr</td>
<td>1100</td>
<td>1300</td>
<td>fb</td>
<td>jn-mr</td>
</tr>
<tr>
<td><strong>Gynura nepalensis</strong> DC.</td>
<td>Compositae</td>
<td>h</td>
<td>a</td>
<td>gro</td>
<td>3</td>
<td>da, weed</td>
<td>gr, ls</td>
<td>600</td>
<td>1525</td>
<td>sp-jl</td>
<td>nv-ag</td>
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<tr>
<td><strong>Habenaria furcifera</strong> Lindl.</td>
<td>Orchidaceae</td>
<td>pd</td>
<td>epl</td>
<td>3</td>
<td>rocks in mxf, eg/bb cliffs</td>
<td>ls</td>
<td>1400</td>
<td>1425</td>
<td>jf-ag</td>
<td>my-dc</td>
<td>flowers</td>
</tr>
<tr>
<td><strong>Habenaria malintana</strong> (Blanco) Merr.</td>
<td>Orchidaceae</td>
<td>h</td>
<td>pd</td>
<td>gro</td>
<td>2</td>
<td>bb/df, eg/bb</td>
<td>gr</td>
<td>850</td>
<td>1400</td>
<td>oc</td>
<td>my-dc</td>
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<td><strong>Harpullia arborea</strong> (Blanco) Radlk.</td>
<td>Sapindaceae</td>
<td>t</td>
<td>pd</td>
<td>gro</td>
<td>3</td>
<td>streams in mxf</td>
<td>ls</td>
<td>500</td>
<td>900</td>
<td>ja-fb</td>
<td>fb-dc</td>
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<tr>
<td><strong>Hedychium ellipticum</strong> Ham. ex J.E. Sm.</td>
<td>Zingiberaceae</td>
<td>h</td>
<td>pd</td>
<td>epl</td>
<td>3</td>
<td>egf, eg/pine, da</td>
<td>gr</td>
<td>1100</td>
<td>1500</td>
<td>sp-oc</td>
<td>my-dc</td>
</tr>
<tr>
<td><strong>Hedychium gardnerianum</strong> Rosc.</td>
<td>Zingiberaceae</td>
<td>h</td>
<td>pd</td>
<td>gro</td>
<td>3</td>
<td>mxf, eg/bb</td>
<td>gr</td>
<td>800</td>
<td>1300</td>
<td>jf-ag</td>
<td>my-dc</td>
</tr>
<tr>
<td><strong>Hedyotis coronaria</strong> (Kurz) Craib</td>
<td>Rubiaceae</td>
<td>h</td>
<td>pd</td>
<td>gro</td>
<td>2</td>
<td>mxf, eg/bb</td>
<td>gr</td>
<td>1000</td>
<td>1400</td>
<td>ap-my</td>
<td>fb-mr</td>
</tr>
<tr>
<td><strong>Hedyotis corymbosa</strong> (L.) Lmk.</td>
<td>Rubiaceae</td>
<td>h</td>
<td>a</td>
<td>gro</td>
<td>3</td>
<td>da, sg</td>
<td>gr</td>
<td>400</td>
<td>1200</td>
<td>sp-oc</td>
<td>oc-nv</td>
</tr>
<tr>
<td><strong>Hedyotis elegans</strong> Wall. ex Kurz</td>
<td>Rubiaceae</td>
<td>h</td>
<td>pe</td>
<td>gro</td>
<td>3</td>
<td>eg/bb</td>
<td>gr</td>
<td>1000</td>
<td>1300</td>
<td>dc-jf</td>
<td>ja-dc</td>
</tr>
<tr>
<td><strong>Hedyotis scandens</strong> Roxb.</td>
<td>Rubiaceae</td>
<td>v,h</td>
<td>pe</td>
<td>gro</td>
<td>3</td>
<td>wet areas egf, da</td>
<td>gr, ls</td>
<td>950</td>
<td>1150</td>
<td>oc-nv</td>
<td>ja-dc</td>
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<tr>
<td><strong>Helicia formosana</strong> Hemsl. var. ob lanceolata Sleum.</td>
<td>Proteaceae</td>
<td>t</td>
<td>pe</td>
<td>gro</td>
<td>2</td>
<td>egf, eg/bb</td>
<td>gr</td>
<td>1000</td>
<td>1400</td>
<td>ap-my</td>
<td>fb-mr</td>
</tr>
<tr>
<td><strong>Helicia nilagirica</strong> Bedd.</td>
<td>Proteaceae</td>
<td>t</td>
<td>pe</td>
<td>gro</td>
<td>3</td>
<td>egf</td>
<td>gr</td>
<td>1200</td>
<td>1500</td>
<td>ap</td>
<td>ja-dc</td>
</tr>
<tr>
<td><strong>Helicopsis terminalis</strong> (Kurz) Sleum.</td>
<td>Proteaceae</td>
<td>t</td>
<td>pe</td>
<td>gro</td>
<td>2</td>
<td>egf, eg/bb</td>
<td>gr</td>
<td>1000</td>
<td>1400</td>
<td>ap-my</td>
<td>dc-fb</td>
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<tr>
<td><strong>Helianders elongata</strong> Wall. ex Boj</td>
<td>Sterculiaceae</td>
<td>s,l</td>
<td>pd</td>
<td>gro</td>
<td>3</td>
<td>eg/bb</td>
<td>gr</td>
<td>1000</td>
<td>1400</td>
<td>my-jn</td>
<td>ap-dc</td>
</tr>
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<td><strong>Helenium parasitica</strong> Lour.</td>
<td>Loranthaceae</td>
<td>s</td>
<td>pe</td>
<td>epi</td>
<td>3</td>
<td>egf, eg/pine</td>
<td>gr</td>
<td>1000</td>
<td>1500</td>
<td>ap-my</td>
<td>ja-dc</td>
</tr>
<tr>
<td><strong>Hemipila calophylla</strong> Par. &amp; Rchb. f.</td>
<td>Orchidaceae</td>
<td>h</td>
<td>pd</td>
<td>epl</td>
<td>1</td>
<td>rocks in mxf, eg/bb</td>
<td>ls</td>
<td>1350</td>
<td>1425</td>
<td>jf-ag</td>
<td>my-dc</td>
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<tr>
<td><strong>Heracleum barmanicum</strong> Kurz</td>
<td>Umbelliferae</td>
<td>h</td>
<td>pd</td>
<td>gro</td>
<td>3</td>
<td>rocks in mxf, eg/bb cliffs</td>
<td>ls</td>
<td>1375</td>
<td>1425</td>
<td>sp-nv</td>
<td>oc-nv</td>
</tr>
<tr>
<td><strong>Heiterta macrophylla</strong> Wall. ex Kurz</td>
<td>Sterculiaceae</td>
<td>t</td>
<td>pe</td>
<td>gro</td>
<td>2</td>
<td>eg/bb, egf</td>
<td>ls</td>
<td>1200</td>
<td>1400</td>
<td>mr-ap</td>
<td>ja-dc</td>
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<tr>
<td><strong>Heterocarpus fragrans</strong> (Roxb. ex DC.) Seem.</td>
<td>Araliaceae</td>
<td>l</td>
<td>pd</td>
<td>gro</td>
<td>2</td>
<td>da, sg</td>
<td>gr</td>
<td>900</td>
<td>1300</td>
<td>my-dc</td>
<td></td>
</tr>
<tr>
<td><strong>Heterostemma siamica</strong> Craib</td>
<td>Asclepiadaceae</td>
<td>v</td>
<td>pe</td>
<td>gro</td>
<td>3</td>
<td>mxf, da</td>
<td>ls</td>
<td>500</td>
<td>800</td>
<td>oc-nv</td>
<td>ja-dc</td>
</tr>
<tr>
<td><strong>Heynea trijuga</strong> Roxb. ex Sims</td>
<td>Meliaceae</td>
<td>t</td>
<td>pe</td>
<td>gro</td>
<td>2</td>
<td>egf</td>
<td>gr</td>
<td>900</td>
<td>1200</td>
<td>nv-dc</td>
<td>ja-dc</td>
</tr>
<tr>
<td><strong>Hibiscus macrophyllus</strong> Roxb. ex Horn.</td>
<td>Malvaceae</td>
<td>t</td>
<td>pe</td>
<td>gro</td>
<td>3</td>
<td>egf, da, sg</td>
<td>gr, ls</td>
<td>900</td>
<td>1400</td>
<td>mr-ap</td>
<td>ja-dc</td>
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<tr>
<td><strong>Hiptage bullata</strong> Craib</td>
<td>Malpighiaceae</td>
<td>sc</td>
<td>pe</td>
<td>gro</td>
<td>3</td>
<td>rocks in mxf cliffs</td>
<td>ls</td>
<td>1300</td>
<td>1400</td>
<td>ap-my</td>
<td>ja-dc</td>
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<tr>
<td><strong>Homalium ceylanicum</strong> (Gardn.) Bth.</td>
<td>Flacourtiaaceae</td>
<td>t</td>
<td>pd</td>
<td>gro</td>
<td>2</td>
<td>egf, eg/bb</td>
<td>gr</td>
<td>1000</td>
<td>1200</td>
<td>jf-ag</td>
<td>my-fb</td>
</tr>
<tr>
<td>Scientific Name</td>
<td>Family</td>
<td>Habitat</td>
<td>Growth Form</td>
<td>Altitude</td>
<td>May</td>
<td>June</td>
<td>July</td>
<td>August</td>
<td>September</td>
<td>October</td>
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<tr>
<td><em>Hopea odorata</em> Roxb. var. odorata</td>
<td>Dipterocarpaceae</td>
<td>evergreen</td>
<td>tree</td>
<td>1000-1500</td>
<td>ap</td>
<td>ja-oc</td>
<td>my-dc</td>
<td>flowers</td>
<td></td>
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<tr>
<td><em>Horsfieldia amygdalina</em> (Wall.) Warb. var. macrocarpa Wilde</td>
<td>Myristicaceae</td>
<td>evergreen</td>
<td>tree</td>
<td>1000-1500</td>
<td>ap</td>
<td>ja-oc</td>
<td>my-dc</td>
<td>flowers</td>
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<tr>
<td><em>Houttuynia cordata</em> Thunb.</td>
<td>Saururaceae</td>
<td>herb</td>
<td>annual</td>
<td>800-1500</td>
<td>my-dc</td>
<td>my-dc</td>
<td>my-dc</td>
<td>flowers</td>
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<tr>
<td><em>Hovenia dulcis</em> Thunb.</td>
<td>Rhamnaceae</td>
<td>deciduous</td>
<td>tree</td>
<td>1200-1400</td>
<td>oc</td>
<td>ja-dc</td>
<td>flowers</td>
<td></td>
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<tr>
<td><em>Hoya kerrii</em> Craib</td>
<td>Asclepiadaceae</td>
<td>epiphytic</td>
<td>vine</td>
<td>400-600</td>
<td>ja-dc</td>
<td>flowers</td>
<td></td>
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<tr>
<td><em>Hoya thomsonii</em> Craib</td>
<td>Asclepiadaceae</td>
<td>epiphytic</td>
<td>vine</td>
<td>1300-1400</td>
<td>oc</td>
<td>dc-fb</td>
<td>ja-dc</td>
<td>flowers</td>
<td></td>
<td></td>
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<tr>
<td><em>Hunteria zeylanica</em> (Retz.) Gard. ex Thw.</td>
<td>Apocynaceae</td>
<td>evergreen</td>
<td>tree</td>
<td>1200-1350</td>
<td>oc-nv</td>
<td>nv-dc</td>
<td>ja-dc</td>
<td>flowers</td>
<td></td>
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<tr>
<td><em>Hymenodictyon orixense</em> (Denn.) Mabb.</td>
<td>Rubiaceae</td>
<td>evergreen</td>
<td>tree</td>
<td>1000-1425</td>
<td>my-dc</td>
<td>my-dc</td>
<td>my-dc</td>
<td>flowers</td>
<td></td>
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<td><em>Hypericum japonicum</em> Thunb. ex Murr.</td>
<td>Guttiferae, Hypericeae</td>
<td>herb</td>
<td>annual</td>
<td>900-1400</td>
<td>ap-my</td>
<td>my-dc</td>
<td>my-dc</td>
<td>flowers</td>
<td></td>
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<tr>
<td><em>Ichnocarpus polyanthus</em> (Bl.) P.I. Forst.</td>
<td>Apocynaceae</td>
<td>evergreen</td>
<td>tree</td>
<td>1000-1500</td>
<td>ap-my</td>
<td>my-dc</td>
<td>my-dc</td>
<td>flowers</td>
<td></td>
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<tr>
<td><em>Impatiens claviger</em> Hk. f.</td>
<td>Balsaminaceae</td>
<td>evergreen</td>
<td>tree</td>
<td>1200-1350</td>
<td>oc-nv</td>
<td>nv-dc</td>
<td>ja-dc</td>
<td>flowers</td>
<td></td>
<td></td>
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<tr>
<td><em>Impatiens kerriae</em> Craib</td>
<td>Balsaminaceae</td>
<td>evergreen</td>
<td>tree</td>
<td>1000-1425</td>
<td>my-nv</td>
<td>nv-dc</td>
<td>my-dc</td>
<td>flowers</td>
<td></td>
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<tr>
<td><em>Impatiens vioaeflora</em> Hk.f.</td>
<td>Balsaminaceae</td>
<td>evergreen</td>
<td>shrub</td>
<td>1000-1525</td>
<td>ag-dc</td>
<td>sp-dc</td>
<td>my-dc</td>
<td>flowers</td>
<td></td>
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<tr>
<td><em>Imperata cylindrica</em> (L.) P. Beauv. var. major (Nees) C. E. Hubb. ex Hubb. &amp; Vaugh</td>
<td>Gramineae</td>
<td>evergreen</td>
<td>tussock</td>
<td>500-1525</td>
<td>oc</td>
<td>ja-oc</td>
<td>flowers</td>
<td></td>
<td></td>
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<tr>
<td><em>Inula cappa</em> (Ham. ex D.Don) DC. forma cappa</td>
<td>Compositae</td>
<td>evergreen</td>
<td>shrub</td>
<td>900-1500</td>
<td>nv-dc</td>
<td>ja-dc</td>
<td>my-dc</td>
<td>flowers</td>
<td></td>
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<tr>
<td><em>Inula nervosa</em> Wall. ex DC.</td>
<td>Compositae</td>
<td>herb</td>
<td>annual</td>
<td>1200-1400</td>
<td>ja-fb</td>
<td>mr</td>
<td>jn-mr</td>
<td>flowers</td>
<td></td>
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<tr>
<td><em>Inula wissmanniana</em> Hand.-Mazz.</td>
<td>Compositae</td>
<td>herb</td>
<td>annual</td>
<td>1200-1425</td>
<td>dc-fb</td>
<td>mr</td>
<td>my-mr</td>
<td>flowers</td>
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<td><em>Iodes cirrhosa</em> Turcz.</td>
<td>Icacinaceae</td>
<td>evergreen</td>
<td>shrub</td>
<td>1000-1200</td>
<td>ja-dc</td>
<td>flowers</td>
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<tr>
<td>Taxon</td>
<td>Family</td>
<td>Habitat</td>
<td>Growth Form</td>
<td>Flowers/Fruits</td>
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<tr>
<td>Ischaemum</td>
<td>Gramineae</td>
<td>h, pd</td>
<td>epl 2</td>
<td>rocks in egf cliffs</td>
<td></td>
<td></td>
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<tr>
<td>Isodon coetsa (B. -H. ex D. Don) Kudo</td>
<td>Labiatae</td>
<td>s, h</td>
<td>pd gro 2</td>
<td>eg/bb, da is 1200 1400 dc-jal ji-fb flowers</td>
<td></td>
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<tr>
<td>Isodon lophanthoides (B. -H. ex D. Don)</td>
<td>Labiatae</td>
<td>h, a</td>
<td>gro 2</td>
<td>eg/bb gr 1100 1400 sp-oc hv-dc my-dc flowers</td>
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<td>Jxora</td>
<td>Rubiaceae</td>
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<td>gro 2</td>
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<td>Jxora cibdela Crab</td>
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<td>l, wc</td>
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<td>eg/bb is 1275 1350 ap ja-dc flowers</td>
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<td>Jasminum dispermum Wall. sspp. forrestianum (Kob.) P.S. Green</td>
<td>Oleaceae</td>
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<td>gro 2</td>
<td>rocks in egf is 1200 1400 ja dc ja-dc fruits</td>
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<td>Knema lenta Warb.</td>
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<td>gro, wee 3</td>
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<td>Laggera pterodonta (DC.) Sch. Bip. ex Oblv.</td>
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<td>Laportea interrupta (L.) Chew</td>
<td>Urticaceae</td>
<td>h a</td>
<td>gro, epl, wee 3</td>
<td>mxf, egf, da gr,ls 500 1025 ag-oc sp-nv my-dc flowers, fruits</td>
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<td>Lespedeza parviflora Kurz</td>
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<td>Lespedeza sulcata (Schindl.) Craib</td>
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<td>da, sg</td>
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<td>Leucas decemdentata (Willd.) J.Sm.</td>
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<td>Leucas</td>
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<td>epl</td>
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<td>egf da</td>
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<td>Lindenberga indica (L.) Vat.</td>
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<td>Liparis olivacea Lindl.</td>
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<td>gro</td>
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<td>gr 1100, 1300</td>
<td>jl-ag</td>
<td>my-dc</td>
<td>flowers</td>
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<td>my-dc</td>
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<td>ag-sp</td>
<td>ja-dc</td>
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<td>Lithocarpus elegans (B.) Hallst. ex Soep.</td>
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<td>Lithocarpus</td>
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<td>3</td>
<td>efg</td>
<td>gr 1000, 1500</td>
<td>sp-oc</td>
<td>ja-dc</td>
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<td>oc, dc-ja</td>
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<td>Lithocarpus quriculatus (Hick. &amp; A. Camus) Baun.</td>
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<td>Lithocarpus</td>
<td>t, pe</td>
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<td>efg</td>
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<td>sp-oc</td>
<td>ja-dc</td>
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<td>Lithocarpus truncatus (King ex Hk. f.) Rehd. &amp; Wils.</td>
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<td>Litsea</td>
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<td>efg, eg/bb</td>
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<td>Litsea cubeba (Lour.) Pers. var. cubeba</td>
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<td>gr 1000, 1300</td>
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<td>Litsea glutinosa (Lour.) C. B. Rob. var. glutinosa</td>
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<td>Litsea zeylanica (Nees) Nees</td>
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<td>Lysionotus</td>
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<td>sp-oc</td>
<td>my-dc</td>
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<tr>
<td>Macaranga denticulata (Bl.) M. A.</td>
<td>Euphorbiaceae</td>
<td>Macaranga</td>
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<td>3</td>
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<td>ja-dc</td>
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<td>da, sg</td>
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<td>jn-sp</td>
<td>ja-dc</td>
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<td>2</td>
<td>Life Form</td>
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<td>Fruit Type</td>
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<td>gr</td>
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<td>sp-oc, sp-oc, my-dc</td>
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| Species                                      | Family          | Growth Form | Size | Maturity     | Bloom | Fruit
|---------------------------------------------|-----------------|-------------|------|--------------|-------|--------
<p>| Meliosma pinnata (Roxb.) ssp. barbulata     | Sabiaceae       | pe          | 3    | egf, gr      | 1000  | 1550   | ap-my | ja-dc | flowers |
| Meliosma simplicifolia (Roxb.) Walp. ssp. fordii (Hems.) ex Forb. &amp; Hems!) Beus. | Sabiaceae       | pe          | 2    | eg/bb, egf   | 1200  | 1375   | ja-dc |
| Melocanna baccifera (Roxb.) Kurz             | Gramineae       | pe          | 2    | streams in mxf, eg/bb | 1000  | 1300   | ja-dc |
| Melodinus cochinensis (Lour.) Merr.          | Apocynaceae     | pe          | 3    | egf, ls      | 1200  | 1350   | ap    | ja-dc | flowers |
| Memecylon umbellatum Burt.f.                | Melastomataceae | pe          | 2    | rocks in mxf, eg/bb, ls | 1200  | 1425   | jl-ag | ja-dc |
| Merremia umbellata (L.) Hall. f. ssp. orientalis (Hall. f.) Oost. | Convolvulaceae  | v, a        | 3    | egf, da, sg  | 800   | 1100   | fb-mr | jn-ap | flowers |
| Michelia baillonii                         | Magnoliaceae    | pe          | 3    | egf, eg/bb, gr, ls | 1000  | 1300   | my-jn | ap-my | my-dc | flowers, fruits |
| Micromelum hirsutum (L.) Hall. f.           | Rutaceae        | pe          | 3    | egf, eg/bb, gr, ls | 1100  | 1500   | ja-fb | mr-ap | ja-dc | flowers, fruits |
| Micromelum minutum (Forst. f.) Wight &amp; Arn. | Rutaceae        | pe          | 3    | egf, eg/bb, gr, ls | 1000  | 1500   | oc-mr | dc-jl | ja-dc | flowers |
| Microtropis discolor (Wall.) Wall. ex Arn.  | Celastraceae    | pe          | 3    | egf, eg/bb, gr, ls | 1100  | 1325   | fb-mr | oc-nv | ja-dc | flowers, fruits |
| Milicia cuneata Craib                      | Annonaceae      | pe          | 2    | egf, mxf, cliffs, eg/bb, gr, ls | 1000  | 1400   | my-nv | nv     | ja-dc | flowers |
| Milicia thorelii Fin. &amp; Gagnep.             | Annonaceae      | pe          | 2    | egf, mxf, cliffs, eg/bb, gr, ls | 500   | 700    | oc     | ja-dc | flowers |
| Millettia pachycarpa Bth.                   | Leguminosae, Papilionoideae | pe          | 3    | egf, eb/bb, gr, ls | 1100  | 1500   | my-fb |
| Mimosa diplosticha C. Wrigt ex Sauv. var. diplosticha | Leguminosae, Mimosoideae | v, a | gro, int, nat, wee | 3    | da, sg | 400   | 1500   | sp-oc | my-dc |
| Mimosa pigra L.                            | Leguminosae, Mimosoideae | pe          | 3    | egf, mxf, cliffs, eg/bb, gr, ls | 1000  | 1500   | ja-mr | my    | ja-dc | flowers, fruits |
| Mixhocarpus pentapetalus (Roxb.) Radlk.     | Sapindaceae     | pe          | 3    | egf, mxf, cliffs, eg/bb, gr, ls | 900   | 1200   | sp-oc | nv    | my-dc |
| Mitracarpus villosus (Sw.) DC.              | Rubiaceae       | pe          | 3    | egf, mxf, cliffs, eg/bb, gr, ls | 900   | 1200   | sp-oc | ap-fb | flowers |
| Mitragnyna rotundifolia (Roxb.) O.K.        | Rubiaceae       | pe          | 3    | egf, mxf, cliffs, eg/bb, gr, ls | 900   | 1200   | sp-oc | ap-fb | flowers |</p>
<table>
<thead>
<tr>
<th>Scientific Name</th>
<th>Family</th>
<th>Type</th>
<th>Period</th>
<th>Highlands</th>
<th>Mid-Levels</th>
<th>Lowlands</th>
<th>Flowers/Fruits</th>
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<td>egf</td>
<td>ls 1200-1425, (dc) fb-mr, ji-sp, ja-dc</td>
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<td>gro</td>
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<td>da</td>
<td>gr 1000-1300, ag-oc, oc-nv, my-jja</td>
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<td>a</td>
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<td>da, gr, ls</td>
<td>400-700, ag-oc, oc-nv, my-dc</td>
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<td>v</td>
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<td>3</td>
<td>eg/bb, da, sg</td>
<td>gr 1000-1500, ja-fb</td>
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<td>egf, da, sg</td>
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<td>egf, eg/bb, da</td>
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<td>ls 1200-1425, ji-sp</td>
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<td>2</td>
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<td>gr 1100-1400, ja-mr</td>
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*Ophiorrhiza* aff. *nutans* Cl. ex Hk. f., *Ophirolla* pseudofasciculata Schan. and *Ophirolla* trichocarpum Bl. var. trichocarpum are the same species. *Ophirolla* trichocarpum Bl. var. trichocarpum is a variant of *Ophirolla* trichocarpum Bl.
<table>
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<th>Species Name</th>
<th>Family</th>
<th>Plant Type</th>
<th>Habit</th>
<th>Growth Form</th>
<th>Size of Plant</th>
<th>Size of Flower</th>
<th>Size of Fruit</th>
<th>Description</th>
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<td><em>Oplismenus burmannii</em> (Retz.) P. Beauv.</td>
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<td>da, sg</td>
<td>gr</td>
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<td>a</td>
<td>gro</td>
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<td>gr, ls</td>
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<td>425 625 oc-nv</td>
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<td><em>Ornithochilus difformis</em> (Wall. ex Lindl.) Schltr.</td>
<td>Orchidaceae</td>
<td>h</td>
<td>pe</td>
<td>epi</td>
<td>2</td>
<td>egf, eg/bb</td>
<td>gr</td>
<td>1100 1400 jl-ag</td>
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<td><em>Orophea polycarpa</em> A.DC.</td>
<td>Annonaceae</td>
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<td>pe</td>
<td>gro</td>
<td>3</td>
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<td>ls</td>
<td>600 800 ja-fb</td>
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<tr>
<td><em>Osbeckia stellata</em> Ham.</td>
<td>Euphorbiaceae</td>
<td>v</td>
<td>a</td>
<td>gro</td>
<td>3</td>
<td>egf, eg/bb</td>
<td>gr, ls</td>
<td>1200 1400 (fb) my-oc</td>
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<td>a</td>
<td>gro</td>
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<td>rocks in mxf, egf, da cliffs</td>
<td>gr, ls</td>
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<td>gro</td>
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<td>streams in bb/df, mxf</td>
<td>ls</td>
<td>1300 1375</td>
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<td>pe</td>
<td>gro</td>
<td>2</td>
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<td>gr</td>
<td>1000 1400 sp-oc</td>
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<td>h</td>
<td>a</td>
<td>gro, wee</td>
<td>3</td>
<td>da, sg</td>
<td>gr</td>
<td>900 1200 sp-oc</td>
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<td><em>Panicum maximum</em> Jacq.</td>
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<td>h</td>
<td>pe</td>
<td>gro, wee</td>
<td>3</td>
<td>da, sg</td>
<td>gr</td>
<td>500 1100 sp-oc</td>
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<td>pe</td>
<td>gro</td>
<td>3</td>
<td>egf, eg/bb</td>
<td>gr</td>
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<td>epl</td>
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<td>ls</td>
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<td><em>Paphiopedilum charlesworthii</em> (Rol.) Pfitz.</td>
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<td>pe</td>
<td>epl</td>
<td>0,1</td>
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<td>ls</td>
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<td><em>Parabaena sagittata</em> Miers ex Hk. f. &amp; Th.</td>
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<td>pe</td>
<td>gro</td>
<td>3</td>
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<td>ls</td>
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<td>Gesneriaceae</td>
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<td>pd</td>
<td>epl</td>
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<td>gro</td>
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<td>egf</td>
<td>ls</td>
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<td>Family</td>
<td>Habitat</td>
<td>Life Form</td>
<td>Latitude</td>
<td>Altitude</td>
<td>Season</td>
<td>Notes</td>
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<td>1375</td>
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<td>1525</td>
<td>ag-oc</td>
<td>sp-nv my-dc</td>
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<td>egf, eg/bb gr</td>
<td>900</td>
<td>1400</td>
<td>my</td>
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<td>rocks, streams in egf gr,ls</td>
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<td>1325</td>
<td>ja-dc</td>
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<td>da, sg gr</td>
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<td>1500</td>
<td>nv-ja</td>
<td>dc-fb jn-fb flowers</td>
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<td>Peperomia pellucida (L.) H. B. K.</td>
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<td>h a gro, epl, nat 3</td>
<td>rocks in mxf cliffs, da in egf gr,ls</td>
<td>500</td>
<td>1200</td>
<td>ag-oc</td>
<td>sp-nv my-dc flowers</td>
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<td>Peperomia tetraphylla (Forst.f.) Hk. &amp; Am.</td>
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<td>rocks in egf, mxf cliffs gr,ls</td>
<td>1200</td>
<td>1500</td>
<td>ag-sp</td>
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<td>Pericampylus glaucus (Lmk.) Merr.</td>
<td>Menispermaceae</td>
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<td>egf, da gr</td>
<td>1100</td>
<td>1400</td>
<td>mr-ap</td>
<td>ji-ag ja-dc flowers fruits</td>
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<td>Penilia frutescens (L.) Britt.</td>
<td>Labiatae</td>
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<td>egf gr</td>
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<td>1500</td>
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<td>my-dc flowers</td>
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<td>egf/bb gr</td>
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<td>my</td>
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<td>Gesneriaceae</td>
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<td>rocks in egf, cliffs is 1300</td>
<td>1400</td>
<td>sp oc-nv</td>
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<td>1525</td>
<td>sp-oc</td>
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<td>Phaulopsis dorsiflora (Retz.) Sant.</td>
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<td>dc-fb</td>
<td>ja-dc flowers</td>
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<td>1300</td>
<td>nv-fb</td>
<td>dc-mr ja-dc flowers fruits</td>
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<tr>
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<td>t l pe gro 3</td>
<td>egf, eg/bb gr, ls</td>
<td>1000</td>
<td>1400</td>
<td>ap-my</td>
<td>oc ja-dc flowers fruits</td>
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<td>Phoebe pallida (Nees) Nees</td>
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<td>egf gr</td>
<td>1000</td>
<td>1200</td>
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<td>Phoebe paniculata Nees</td>
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<td>egf gr</td>
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<td>1500</td>
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<td>ja-dc flowers</td>
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<td>1425</td>
<td>jn-dc</td>
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<td>Pholidota bracteata (D. Don) Seid.</td>
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<td>1425</td>
<td>oc-ja</td>
<td>my-dc fruits</td>
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<td>Phragmites vallatoria (Pluk. ex L.) Veldk.</td>
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<td>da gr,ls</td>
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<td>oc-dc</td>
<td>nv-ja ja-dc</td>
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<td>Phylachne majus Coll. &amp; Hemsl.</td>
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<td>bb/df, eb/bb gr</td>
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<td>1200</td>
<td>oc</td>
<td>ja-fb ja-dc flowers fruits</td>
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<td>1400</td>
<td>sp-fb</td>
<td>oc-fb jn-fb flowers fruits</td>
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<td>Habitat</td>
<td>Precipitation</td>
<td>Altitude (m)</td>
<td>Flowers/Fruits</td>
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<td>Phyllanthus emblica L.</td>
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<td>1100</td>
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<td>Pilea microphylla (L.) Liebm.</td>
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<td>Polygonum chinense var. chinense</td>
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<td>Growth Form</td>
<td>Flowers</td>
<td>Fruits</td>
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<td>pd</td>
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<td>pe</td>
<td>epl, gr</td>
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<td>gro</td>
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<td>pe</td>
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<td>Characteristics</td>
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### Table 2. List of plant species under phylum gymnospermae surveyed at Doi Tung, Chiang Rai Province.

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<tr>
<th>Species</th>
<th>Family</th>
<th>Habit</th>
<th>Aped</th>
<th>Life mode</th>
<th>Abundance</th>
<th>Habitat</th>
<th>Bedrock</th>
<th>Lower Elevation (m)</th>
<th>Upper Elevation (m)</th>
<th>Flowering</th>
<th>Fruiting</th>
<th>Leafing</th>
<th>Collected</th>
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<tr>
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<td>egf</td>
<td>ls</td>
<td>1375</td>
<td>1400</td>
<td>ja-dc</td>
<td>sp-dc</td>
<td>ja-nc</td>
<td>fruits</td>
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<td>Pinus kesiya Roy. ex Gord.</td>
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<td>t</td>
<td>pe</td>
<td>gro also cul</td>
<td>2</td>
<td>eg/pine</td>
<td>gr</td>
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### Table 3. List of plant species under phylum pteridophyta surveyed at Doi Tung, Chiang Rai Province.

<table>
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<th>Life mode</th>
<th>Abundance</th>
<th>Habitat</th>
<th>Bedrock</th>
<th>Lower Elevation (m)</th>
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<th>Flowering</th>
<th>Fruiting</th>
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<th>Collected</th>
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<td>gr, ls</td>
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<td>sp-dc</td>
<td>my-dc</td>
<td>sori</td>
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<td>pd</td>
<td>epl</td>
<td>3</td>
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<td>gr, ls</td>
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<td>1500</td>
<td>ag-oc</td>
<td>ag-oc</td>
<td>my-dc</td>
<td>sori</td>
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<td>eg/bb</td>
<td>ls</td>
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<td>1325</td>
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Table 4. List of plant species under phylum bryophyta surveyed at Doi Tung, Chiang Rai Province.
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<td>Plagiotheciaceae</td>
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<td>epi</td>
<td>3</td>
<td>egf, eg/pine</td>
<td>gr 900 1200</td>
<td>jl-sp jl-sp ja-dc capsules</td>
</tr>
<tr>
<td><em>Thuidium orientale</em></td>
<td>Thuidiaceae</td>
<td>h</td>
<td>epi</td>
<td>3</td>
<td>mxf, egf, cliffs</td>
<td>ls 1200 1400</td>
<td>ja-dc</td>
</tr>
</tbody>
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