

VEGETATION AND VASCULAR FLORA OF THE BAN SANEH PAWNG AREA, LAI WO SUBDISTRICT, SANGKLABURI DISTRICT, KANCHANABURI PROVINCE, THAILAND

*J.F. Maxwell**

ABSTRACT

Ban Saneh Pawng area is located in rugged, lowland, limestone terrain. There are two basic forest types, viz. primary evergreen + deciduous and a degraded kind composed of deciduous species + bamboo. Calciphytes are abundant during the rainy season. The vascular flora includes 118 families and 559 species, etc. One new record for the flora of Thailand and two new species were found.

INTRODUCTION

Ban (village) Saneh Pawng is a Karen (tribe) village located c. 12 km NE of Sangklaburi town at approximately 15° N latitude, 98° 5', east longitude and is in the southernmost part of Toong (Thung) Yai Naresuan Wildlife Sanctuary. The village is situated in a valley between limestone cliffs at 200 m elevation and is bisected by a shallow, perennial stream, Huay Rokee, which flows in a basically SW direction. Apart from shale of Kow My Dang, a hill over which the main dirt road leading to the village passes, the entire area consists of weathered, often steep, rugged limestone terrain. The cliffs and underlying bedrock belong to the Ratburi Formation which was originally formed as a coral reef during the Carboniferous–Permian periods of geological history, some 225–345 million years ago (JAVANAPHET, 1969), and was more recently uplifted and exposed to terrestrial weathering.

The elevation of the village is 200 m and the highest ridge in the area is 525 m. The village has been settled for several generations, thus much of the vegetation of the lowlands and flatter areas in the limestone hills has been disturbed. The study period for this project was from March 1993 to April 1994.

Climate

There are three distinct seasons in the area which are similar to those in northern Thailand, viz.

1. Hot, wet season from May to October,
2. Cooler, dry period from November to January, and
3. A hot, dry season from February to April.

Temperatures vary with the seasons, forest type, and time of day. The average minimum

* Herbarium, Department of Biology, Chiang Mai University, Chiang Mai 50200, Thailand.

and maximum daily temperatures range from 20°C to 35°C in the hot, wet season; 10°C to 29°C in the cool season, and 15°C to 35°C in the hot, dry season. Daytime temperature rises quickly, especially in open and disturbed areas, and can reach 40°C in April.

Over 80% of the rain in the area is brought by the SW monsoon from the Andaman Sea, creating high levels of rainfall and frequently flooding the region, especially in September and October. Although the amount of rainfall is variable, 200–400 cm/year is typical.

VEGETATION

Lowland and other Disturbed Places

The villagers at Saneh Pawng are all farmers and rely on their crops for sustenance and cash. Feral animals, charcoal making, and house, etc. construction materials have resulted in the destruction of much of the original forest, however much of the escarpment, cliffs, and summit areas are undisturbed. Since the entire region of N and NW Thailand is seasonal, i.e. monsoonal, there is a dry season from November to about June, during which many of the woody plants and perennial herbs drop their leaves. This is also the time when fires are started to burn agricultural wastes, enlarge fields, etc. which has had a disastrous effect on forested areas, many of which are repeatedly burned.

Agricultural fields and residential areas have ubiquitous weeds such as *Eupatorium odoratum* L., *Tridax procumbens* L., *Blumea balsamifera* (L.) DC. (all Compositae); *Euphorbia hirta* L. and *Phyllanthus urinaria* L. (Euphorbiaceae); various Cyperaceae such as *Cyperus halpan* L. var. *halpan*, *C. iria* L., *Fimbristylis dichotoma* (L.) Vahl ssp. *dichotoma*; and Gramineae (grasses) including *Chloris barbata* Sw., *Digitaria setigera* Roth ex Roem. & Schult. var. *setigera*, *Eleusine indica* (L.) Gaertn., *Imperata cylindrica* (L.) P. Beauv. var. *major* (Nees) C.E. Hubb. ex Hubb. & Vaugh., *Pennisetum pedicellatum* Trin., and *Sacciolepis indica* (L.) Chase.

Areas that have been less disturbed and abandoned slashed and burned places have developed secondary growth which consists of soft-wooded, rapidly growing, mostly short-lived evergreen and deciduous trees up to c. 10 m tall. Some of these are *Flacourtia indica* (Burm. f.) Merr. (Flacourtiaceae), *Microcos paniculata* L. (Tiliaceae) *Oroxylum indicum* (L.) Kurz (Bignoniaceae, Fig. 5), *Gmelina arborea* Roxb. (Verbenaceae), *Macaranga gigantea* (Rchb. f. & Zoll.) M.-A. (Euphorbiaceae), and *Ficus hispida* L. f. var. *hispida* (Moraceae). The ground flora in these secondary areas is typically weedy and often includes some tall vigorous grasses, e.g. *Thysanolaena latifolia* (Roxb. ex Horn.) Honda and *Saccharum arundinaceum* Retz. (Gramineae); some shrubs and other perennial herbs which are typical of regenerating areas. Some woody examples are *Helicteres hirsuta* Lour. (Sterculiaceae), *Leea indica* (Burm. f.) Merr. (Leeaceae), *Allophylus cobbe* (L.) Rausch. (Sapindaceae), and *Debregeasia longifolia* (Burm. f.) Wedd. (Utricaceae). *Tinospora crispa* (L.) Hk. f. & Th. and *T. sinensis* (Lour.) Merr. (Menispermaceae), both deciduous, and *Cayratia tenuifolia* (Wight & Arn.) Gagnep. var. *tenuifolia* (Vitaceae) are some vines which are commonly found in secondary growth. Some other herbs found in this habitat are: *Alpinia malaccensis* (Burm. f.) Rosc. (Zingiberaceae), *Dioscorea bulbifera* L. (Dioscoreaceae, a vine), and *Lygodium flexuosum* (L.) Sw. (Schizeaceae, a climbing fern).



Figure 1. *Dillenia pentagyna* Roxb. (Dilleniaceae), a deciduous tree in deciduous + bamboo forest, produces inflorescences and infructescences on leafless branches during the hot (flowers) and early rainy (fruits) seasons. The trunk of the tree is in the background. Photo: Pat Corrigan, 15 June 1993 (Maxwell 93-610).



Figure 2. *Talauma hodgsonii* Hk. f. & Th. (Magnoliaceae), an uncommon understorey tree, is found in shaded places in more evergreen forested areas, especially along Rokee Stream. Photo: Mario Ambrosino, 12 April 1994 (Maxwell 94-500).



Figure 3. *Capparis assamica* Hk. f. & Th. (Capparaceae), distinguished by its narrow, lax, reflexed inflorescences and infructescences, this slender climber-shrub is found in shaded, primary, more evergreen forested places. Photo: Pat Corrigan, 11 April 1994 (Maxwell 94-487).

Figure 4. *Dischidia hirsuta* (Bl.) Decne. (Asclepiadaceae), found on tree branches along Rokee Stream, is a slender, epiphytic, succulent vine. The Karen name for this plant is "poo gwayi gee thay". Photo: Pat Corrigan, 19 March 1993 (Maxwell 93-293).



Figure 5. *Oroxylum indicum* (L.) Kurz (Bignoniaceae), a common treelet or tree of secondary growth, has large, nocturnal, bat-pollinated flowers, from which the corollas fall off after sunrise. The immature fruits (capsules) are edible. Photo: Mario Ambrosino, 12 April 1994.





Figure 6. *Curcuma* sp. (Zingiberaceae) is a deciduous, perennial herb found in deciduous + bamboo, fire-prone areas. The 4-angled inflorescences with red-orange bracts are distinct. Photo: Mario Ambrosino, 7 October 1993 (Maxwell 93-1153).



Figures 7–8. *Amorphophallus muelleri* Bl. (Araceae), the most common species in this genus in the study area, is a deciduous, perennial herb found in deciduous + bamboo areas. The inflorescences and leaves of individual plants are never produced together in a growing season. Photo 7, an *in situ* individual; and Photo 8, showing another plant, *in toto*; both by Mario Ambrosino, 11 April 1994 (Maxwell 94-478).



Figure 9. *Globba substrigosa* King ex Bak. (Zingiberaceae) grows exclusively on limestone outcrops in shaded evergreen habitats during the rainy season. Photo: Pat Corrigan, 16 June 1993 (Maxwell 93-643).



Figure 10. *Tacca chantrieri* Andre (Taccaceae), perennial, evergreen herb found in shaded evergreen areas, has four outer (larger) inflorescence bracts and many pendulous, filiform flower bracts inside. Photo: Pat Corrigan, 8 October 1993 (Maxwell 93-1166).

Primary Growth

The original (primary) forest cover of the areas is mixture of deciduous and evergreen tree species, while the understorey is more evergreen and consists of seedlings, treelets, shrubs, and herbs. Although many of the large trees in some areas have been removed there are still some pristine areas at the bases of some escarpments which have trees over 30 m tall with dbh's of over 1 m. The largest tree seen in the area is a gigantic individual of *Duabanga grandiflora* (Roxb. ex DC.) Walp. (Sonneratiaceae), while *Parashorea stellata* Pierre, *Dipterocarpus alatus* Roxb. ex G. Don and *D. turbinatus* Gaertn. f. (all Dipterocarpaceae) and *Swintonia schwenkii* (T. & B.) T. & B. ex Kurz (Anacardiaceae) are less massive. Some deciduous canopy members are *Scaphium scaphgerum* (G. Don) Guib. & Pl. and *Pterocymbium laoticum* Tard. (both Sterculiaceae), while *Garuga floribunda* Decne. (Burseraceae), *Anogeissus acuminata* (Roxb. ex DC.) Guill. & Perr. (Combretaceae), *Lagerstroemia speciosa* (L.) Pers. var. *speciosa* (Lythraceae), *Xylia xylocarpa* (Roxb.) Taub. var. *kerrii* (Craib & Hutch.) Niels. (Leguminosae, Mimosoideae) are of slightly less stature. Understorey deciduous trees include *Cratoxylum neriifolium* Kurz (Hypericaceae), *Casearia flavovirens* Bl. (Flacourtiaceae), *Dillenia pentagyna* Roxb. (Dilleniaceae, Fig. 1), and *Schleichera trijuga* Willd. (Sapindaceae). Evergreen counterparts in the understorey are *Hydnocarpus kurzii* (King) Warb. ssp. *australis* Sleum. (Flacourtiaceae), *Garcinia xanthochymus* Hk. f. ex T. And. (Guttiferae), *Cleidion spiciflorum* (Burm. f.) Merr. (Euphorbiaceae), and *Knema linifolia* (Roxb.) Warb. (Myristicaceae). The palm, *Arenga wightii* Griff. (Palmae) is an evergreen tree with a height of up to c. 8 m and a crown spread of c. 7 m. Some evergreen species growing below the understorey include *Anaxagorea luzonica* A. Gray and *Goniothalamus griffithii* Hk. f & Th. (both Annonaceae), *Saraca declinata* (Jack) Miq. (Leguminosae, Caesalpinioideae) *Actephila excelsa* (Dalz.) M.-A. var. *excelsa* and *Cleidion spiciflorum* (Burm. f.) Merr. (both Euphorbiaceae), and *Streblus taxoides* (Hey. ex Roth) Kurz (Moraceae). *Strobilanthes turginodis* Im. (Acanthaceae), an evergreen shrub, is often found in very shaded places.

Some evergreen woody climbers are *Tinomiscium petiolare* Hk. f. & Th. (Menispermaceae) and *Phytocrene bracteata* Wall. (Icacinaceae); while deciduous examples include *Acacia megaladena* Desv. var. *megaladena* (Leguminosae, Mimosoideae), *Premna scandens* Roxb. (Verbenaceae), and *Broussonetia kurzii* (Hk. f.) Corn. (Moraceae). Typical herbs in primary forested areas are: *Geophila repens* (L.) I.M. John., *Ophiorrhiza hispidula* Wall. ex G. Don var. *hispidula* (both Rubiaceae), *Tacca chantrieri* Andre (Taccaceae, Fig. 10), *Aeginetia indica* Roxb. (Orobanchaceae) and *Balanophora latisejala* (Tiegh.) Lec. (Balanophoraceae), both leafless saprophytes/parasites; *Justicia caloneura* Kurz (Acanthaceae); and *Amomum testaceum* Ridl. (Zingiberaceae). Ground ferns are also common and include *Adiantum philippense* L. (Parkeriaceae), *Tectaria impressa* (Fee) Holtt. and *T. herpetocaulos* Holtt. (Dryopteridaceae), and *Thelypteris nudata* (Roxb.) Mort. (Thelypteridaceae).

Epiphytes are abundant at all levels of the primary forest and include flowering plants such as *Dischidia hirsuta* (Bl.) Decne. (Fig. 4) and *Hoya acuta* Haw. var. *acuta* (both Asclepiadaceae), and many orchids (Orchidaceae), e.g. *Dendrobium fimbriatum* Hk. *Oberonia iridifolia* (Roxb.) Lindl., and *Vanda teres* Lindl. Epiphytic ferns are also common and include: *Vittaria elongata* Sw. (Vittariaceae), *Asplenium nidus* L. var. *nidus*

(Aspleniaceae), both of which are evergreen; and *Platycterium wallichii* Hk. (Polypodiaceae), which is deciduous.

Degraded Forest

Original primary forested areas that have been degraded, i.e. cut, burned, tilled, etc. have fewer large trees, more deciduous species, and show a distinct correlation between the amount of disturbance and the abundance of two bamboos, viz. *Gigantochloa apus* (Schult.) Kurz and *G. nigro-ciliata* (Beuse) Kurz (both Gramineae, Bambusoideae), that is more open areas have more bamboo. Typical deciduous tree species, up to 20 m tall, are *Cassia fistula* L. (Leguminosae, Caesalpinioideae), *Mitragyna rotundifolia* (Roxb.) O.K. (Rubiaceae), *Stereospermum colais* (B.-H. ex Dill.) Mabb. (Bignoniaceae), *Phyllanthus emblica* L. (Euphorbiaceae), and *Ficus superba* (Miq.) Miq. var. *japonica* Miq. (Moraceae). *Desmodium gangeticum* (L.) DC. and *Flemingia macrophylla* (Willd.) Prain (both Leguminosae, Papilionoideae) are common deciduous treelets 1–2 m tall in this habitat.

The ground flora, especially the herbs is diverse and includes numerous perennial species, many of which flower in the dry season before their leaves appear. Typical ground herbs are mostly monocots, e.g. *Curcuma roscoeana* Wall., *C. petiolata* Roxb. *Zingiber smilesianum* Craib, and *Kaempferia elegans* Wall. (all Zingiberaceae); *Amorphophallus muelleri* Bl. (Araceae, Figs. 7 & 8), and several ground orchids (Orchidaceae) including *Nervilia aragoana* Gaud. and *Geodorum diversifolium* (Lam.) Schltr.

In general, the degraded forest has fewer individuals and species of both woody climbers and epiphytes than in primary forested areas. Old secondary growth and degraded forested areas often merge and, therefore, are difficult to distinguish. Similarly, degraded forested areas also merge with primary forested habitats, thus absolute distinctions between these habitats is often difficult.

Rock Flora

As in other limestone areas, many of the plants actually growing on this rock or its recrystallized/degraded form, tufa or marl, are only found in this habitat and are frequently very localized in distribution (i.e. endemic). The best time to see these plants, all of which are herbs, is during the latter part of the rainy season, i.e. August–October. These lithophytes or more specifically calciphytes include at least 6 species of *Argostemma* (Rubiaceae), e.g. *A. albovenatum* Gedd. and *A. plumbeum* Craib, and 4 species of *Begonia* (Begoniaceae), e.g. *B. demissa* Craib and *B. notata* Craib. *Pilea* aff. *wightii* Wedd. (Urticaceae), *Caulokaempferia saxicola* K. Lar., *Globba substrigosa* King ex Bak. (both Zingiberaceae), and *Selaginella delicatula* (Desv.) Alst. (Selaginellaceae) are abundant, especially where the rock is shaded and wet. *Impatiens opinata* Craib, *I. patula* Craib (both Balsaminaceae) as well as *Rhynchoglossum obliquum* Bl. (Gesneriaceae) are also common calciphytes, but are often found in drier places. At least 28 species of calciphytes have been collected in the area.

RIPARIAN AND RHEOPHYTIC PLANTS

Although much of original forest cover along Rokee Stream has been destroyed, there are still some intact parts in the village areas. Most of the trees are evergreen, below 10 m tall, and have extensive root systems in the alluvium. *Dillenia indica* L. (Dilleniaceae) is deciduous for a few days in August, while all of the others are evergreen. e.g. *Crateva magna* (Lour.) DC. (Capparaceae), *Elaeocarpus rugosus* Roxb. (Elaeocarpaceae), *Aesculus assamica* Griff. (Hippocastanaceae), *Eugenia megacarpa* Craib (Myrtaceae), and *Homonoia riparia* Lour. (Euphorbiaceae). The edible fern *Diplazium esculentum* (Retz.) Sw. (Athuriaceae) is common in open places along the stream.

OTHER BOTANICAL WORK

It is only in recent years that the Sangklaburi area become easily accessible to botanists, thus there has not been any previous detailed floristic work done there. Other limestone areas in the region, e.g. Tak Province to the north and Ratburi Province to the south have not received much botanical attention either. The only other nearby limestone habitat that has been studied is on Si Chang Island, Chonburi Province which is in the Gulf of Thailand. The vegetation there has been so severely degraded, having only 274 species (MAXWELL, 1994), that it presently has no comparison to that in the Saneh Pawng Village area.

ACKNOWLEDGMENTS

This project was sponsored and fully supported by Wildlife Fund Thailand to which I am very thankful. Mr. Seri Thongmak and Mr. Chan-ek Tangsubutr were instrumental in coordinating my work while Mr. Pat Corrigan and Mr. Mario Ambrosino assisted me in the forests at Saneh Pawng Village. I am very grateful for their interest and cooperation in my work. I work also like to thank Mr. Duboy, a Karen villager there, for his hospitality, enthusiasm, resourcefulness, and knowledge of the forest in the area. Dr. J.F. Veldkanp and Dr. W. Hetttersheid at the Rijksherbarium, Leiden, Netherlands are thanked for their collaboration and cooperation in my research.

REFERENCES

- JAVANAPHET, J.C. 1969. Geological Map of Thailand. Department of Mineral Resources, Bangkok; 2 sheets.
MAXWELL, J.F. 1994. Vascular Flora of Si Chang Island, Chonburi Province, Thailand. *Nat. Hist. Bull. Siam Soc.*, 42, 41-66.
_____. 1994a. Botanical Notes on the Flora of Thailand : 4. *Nat. Hist. Bull. Siam Soc.* 42, 259.

Appendix 1. List of species. The details, in coded form, for each species are presented in the following order: habit, seasonality, habitat, abundance; flowering, fruiting, and leafing periods. The coded abbreviations are as follows:

habit :	h	= herb	abundance:	1	= rare
	v	= vine		2	= uncommon
	s	= shrub		3	= common
	l	= treelet		4	= abundant
	t	= tree	phenology:	fl	= flowering
	wc	= woody climber		fr	= fruiting
	Ep	= epiphyte		lf	= leafing
	Pa	= parasite	months:	ja	= January
	Sa	= saprophyte		fb	= February
	Ls	= on limestone		mr	= March
	G	= ground		ap	= April
seasonality:	a	= annual		my	= May
	p	= perennial		jn	= June
	e	= evergreen		jl	= July
	d	= deciduous		ag	= August
habitat:	da	= disturbed area		sp	= September
	sg	= secondary growth		oc	= October
	bb/df	= bamboo + deciduous forest		nv	= November
	mx	= mixed evergreen/deciduous forest		dc	= December
	eg	= more evergreen area in mx			

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
ANGIOSPERMS-DICOTS							
RANUNCULACEAE							
<i>Clematis smilacina</i> Bl.	v	p	wet areas in da	2	ja-fb	mr-ap	
<i>Naravelia zeylanica</i> (L.) DC.	v	p	wet areas	2	nv-dc	ja-fb	
DILLENIACEAE							
<i>Dillenia indica</i> L.	t	pd	streams	3	jl-ag	oc-ja	jn-ap
<i>Dillenia parviflora</i> Griff. var. <i>kerrii</i> (Craib) Hoogl.	t	pd	bb/df	4	ja-mr	mr-ap	ap-dc
<i>Dillenia pentagyna</i> Roxb.	t	pd	mx, sg	3	fb-mr	my-jn	ap-dc
MAGNOLIACEAE							
<i>Talauma hodgsonii</i> Hk. f. & Thoms.	t	pe	mx	2	mr-my	ag-oc	ja-dc

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
ANNONACEAE							
<i>Anaxagorea luzonica</i> A. Gray	l	pe	mxf	3	mr-jn	jn-ag	ja-dc
<i>Cananga odorata</i> (Lmk.) Hk. f. var. <i>odorata</i>	t	pd	da, sg	3	mr-ap	fb-my	ap-mr
<i>Cyathocalyx</i> sp.	t	pd	bb/df	3	ap	?	ja-dc
<i>Enicosanthum</i> sp.	t	pe	mxf	3	ag-sp	?	ja-dc
<i>Goniothalamus</i> <i>griffithii</i> Hk. f. & Thoms.	l	pe	mxf	3	jn-jl	sp oc	ja-dc
<i>Meiogyne</i> sp.	t	pe	mxf	3	ag-sp	ap-my	ja-dc
<i>Miliusa thorelli</i> Fin. & Gagnep.	l, s	pe	mxf	3	ap-my	jn-jl	ja-dc
<i>Orophea acuminata</i> A. DC.	l, t	pe	mxf	3	mr-ap	jn-ag	ja-dc
<i>Orophea thomsonii</i> Bedd.	l	pe	mxf	3	ja-fb	?	ja-dc
<i>Orophea</i> sp.	t	pe	mxf	3	sp-oc	?	ja-dc
<i>Polyalthia</i> aff. <i>cinnamomea</i> Hk. f. & Th.	t	pe	mxf	3	?	ag-sp	ja-dc
MENISPERMACEAE							
<i>Cissampelos pareira</i> L. var. <i>hirsuta</i> (B.-H. ex DC.) Forman	v	pe	da, sg	3	jn-jl	ag-oc	ja-dc
<i>Cyclea barbata</i> Miers	v	pe	da, sg	3	ap-my	jn-ag	ja-dc
<i>Stephania crebra</i> For.	v	pe	da, sg	3	jn-jl	ag-sp	ja-dc
<i>Tinomiscium petiolare</i> Hk. f. & Thoms.	wc	pe	mxf	3	my-jn	ag-oc	ja-dc
<i>Tinospora crispa</i> (L.) Hk. f. & Thoms.	v	pd	da, sg, bb/df	3	fb-mr	ap-my	jn-ja
<i>Tinospora sinensis</i> (Lour.) Merr.	v	pd	da, sg, bb/df	3	ja-fb	mr-ap	jn-ja
CRUCIFERAE							
<i>Rorippa heterophylla</i> (Bl.) Will.	h	a	streams in/ bb/df	3	mr-my	ap-jn	jl-jn

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
CAPPARACEAE							
<i>Capparis assamica</i> Hk. f. & Th.	s(scandent)	pe	mxf	3	ap-my	sp-oc	ja-dc
	l, wc						
<i>Crateva magna</i> (Lour.) DC.	t	pd	streams in mxf, sg	3	mr-ap	ag-sp	mr-fb
<i>Neothorelia laotica</i> Gagnep.	wc	pd	bb/df	2	?	ap	jn-ap New Record (Maxwell, 1994a)
POLYGALACEAE							
<i>Polygala isocarpa</i> Chod.	h	a	bb/df	3	sp-oc	oc-nv	jn-nv
HYPERICACEAE							
<i>Cratoxylum formosum</i> (Jack) Dyer ssp. <i>pruniflorum</i> (Kurz) Gog.	t	pd	bb/df, sg	4	mr-my	jn-ag	mr-ja
<i>Cratoxylum neriifolium</i> Kurz	t	pd	bb/df, sg	3	mr-my	jn-ag	mr-ja
GUTTIFERAE							
<i>Garcinia xanthochymus</i> Hk. f. ex T. And.	t	pe	mxf	3	mr-ap	oc-ja	ja-dc
FLACOURTIACEAE							
<i>Casearia flavovirens</i> Bl.	t	pd	mxf	3	?	jl-ag	mr-fb
<i>Casearia</i> aff. <i>glomerata</i> Roxb.	l	pe	mxf	3	?	jn-jl	ja-dc
<i>Flacourtia indica</i> (Burm. f.) Merr.	t (l)	pd	bb/df	3	fb-my	sp-oc	mr-ja
<i>Hydnocarpus kurzii</i> (King) Warb. ssp. <i>australis</i> Sleum.	t	pe	mxf	3	?	jn-ag	ja-dc
DIPTEROCARPACEAE							
<i>Dipterocarpus alatus</i> Roxb. ex G Don	t	pe	eg	4	ja-fb	ap-my	ja-dc
<i>Dipterocarpus turbinatus</i> Gaertn. f.	t	pe	eg	4	ja-fb	ap-my	ja-dc
<i>Hopea odorata</i> Roxb. var. <i>odorata</i>	t	pe	streams in mxf	3	ja-fb	ap-my	ja-dc
<i>Parashorea stellata</i> Kurz	t	pe	mxf	3	ja-fb	mr-ap	ja-dc

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	lf
MALVACEAE							
<i>Hibiscus macrophyllus</i> Roxb. ex Horn.	t	pe	da, sg	3	mr-ap	nv-ja	ja-dc
<i>Hibiscus surattensis</i> L.	h	a	da, sg	3	nv-dc	ja-fb	jn-fb
<i>Sida rhombifolia</i> L. ssp. <i>rhombifolia</i>	h	pe	da, sg	4	ag-oc	sp-ja	ja-dc
<i>Urena lobata</i> L. ssp. <i>lobata</i> var. <i>lobata</i>	h	pe	da, sg	4	sp-ja	oc-mr	ja-dc
BOMBACACEAE							
<i>Bombax ceiba</i> L.	t	pd	bb/df	4	dc-ja	ap-my	fb-nv
STERCULIACEAE							
<i>Byttneria integrifolia</i> Lace	wc	pe	da, sg, bb/df	3	oc-nv	ja-fb	ja-dc
<i>Byttneria pilosa</i> Roxb.	wc	pd	da, sg, bb/df	3	oc-nv	ja-fb	jn-fb
<i>Helicteres hirsuta</i> Lour.	s	pd	bb/df	3	sp-nv	fb-mr	my-mr
<i>Melochia umbellata</i> (Houtt.) Stapf	t	pd	da, sg	3	mr-ap	jn-ag	my-mr
<i>Pterocymbium laoticum</i> Tard.	t	pd	mxf	3	ja-fb	ap-my	jn-dc
<i>Pterospermum acerifolium</i> Willd.	t	pe	mxf	3	ap-my	ag-sp	ja-dc
<i>Pterospermum semisagittatum</i> Ham. ex Roxb.	l	pd	bb/df, sg	3	mr-ap	sp-oc	my-mr
<i>Scaphium scaphigerum</i> (D. Don) Guib. & Pl.	t	pd	mxf	4	ja-fb	ap-my	my-ap
<i>Sterculia lanceolata</i> Cav.	l	pe	mxf	3	fb-ap	ap-jl	ja-dc
<i>Sterculia ornata</i> Wall. ex Kurz	t	pd	bb/df	3	ja-fb	mr-ap	ap-dc
<i>Sterculia</i> aff. <i>stigmatota</i> Pierre	t	pd	mxf	3	fb-mr	mr-ap	my-dc
<i>Sterculia versicolor</i> Wall.	t	pd	da, sg	3	ja-fb	mr-ap	my-dc
TILIACEAE							
<i>Grewia hirsuta</i> Vahl	l	pd	bb/df	3	jn-ag	ja-fb	my-ja
<i>Microcos paniculata</i> L.	t (l)	pe	da, sg	3	ap-my	jl-sp	ja-dc

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
<i>Triumfetta rhomboidea</i> Jacq.	h	a	da, sg	4	oc-dc	dc-fb	my-fb
ELAEOCARPACEAE							
<i>Elaeocarpus rugosus</i> Roxb.	t	pe	streams in mxf	4	mr-ap	jl-ag	ja-dc
OXALIDACEAE							
<i>Biophytum umbraculum</i> Welw.	h	a	bb/df	3	jl-nv	sp-dc	jn-dc
BALSAMINACEAE							
<i>Impatiens opinata</i> Craib	h	a	bb/df (Ls)	3	sp-oc	oc-nv	jn-nv
<i>Impatiens patula</i> Craib	h	a	bb/df (Ls)	3	sp-oc	oc-nv	jn-nv
RUTACEAE							
<i>Atalantia roxburghina</i> Hk. f.	t	pe	mxf	3	ap-my	sp-oc	ja-dc
<i>Glycosmis ovoidea</i> Pierre	t	pe	mxf	3	ap-my	jl-ag	ja-dc
<i>Glycosmis</i> aff. <i>parva</i> Craib	l	pe	mxf	3	?	ap-my	ja-dc
<i>Micromelum falcatum</i> (Lour.) Tana.	l	pe	da in mxf	3	ja-mr	jn-ag	ja-dc
<i>Toddalia asiatica</i> (L.) Lmk.	wc	pe	mxf, da	3	ja-fb	ag-sp	ja-dc
<i>Zanthophyllum</i> <i>oxyphyllum</i> Edgew.	wc	pe	mxf	3	ja-fb	ag-sp	ja-dc
SIMAROUBACEAE							
<i>Picrasma javanica</i> Bl.	t	pe	streams in mxf	3	mr-my	jn-ag	ja-dc
BURSERACEAE							
<i>Garuga floribunda</i> Decne.	t	pd	bb/df, mxf	3	fb-mr	ap-oc	my-ja
<i>Protium serratum</i> (Wall. ex Colebr.) Engl.	t	pd	bb/df	3	fb-mr	jn-ag	mr-fb
MELIACEAE							
<i>Aglaia</i> sp.	t (l)	pe	mxf	3	?	?	ja-dc
<i>Aphanamixis</i> <i>polystachya</i> (Wall.) R. Parker	t	pe	mxf, da	3	ag-nv	dc-mr	ja-dc
<i>Dysoxylum densiflorum</i> (Bl.) Miq.	t	pe	mxf	3	?	ja-fb	ja-dc
<i>Dysoxylum</i> sp.	t	pe	mxf	3	?	mr-my	ja-dc

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
OLACACEAE							
<i>Erythrolalum scandens</i> Bl.	wc	pe	mxf	3	oc-nv	mr-ap	ja-dc
ICACINACEAE							
<i>Gomphandra quadrifida</i> (Bl.) Sleum. var. <i>quadrifida</i>	l (s)	pe	mxf	3	jn-jl	ag-sp	ja-dc
<i>Iodes cirrhosa</i> Turcz.	v	pe	mxf	3	mr-ap	?	ja-dc
<i>Phytocrene bracteata</i> Wall.	wc	pe	mxf	3	?	jn-jl	ja-dc
CARIOPTERIDACEAE							
<i>Cardiopteris quinqueloba</i> (Hassk.) Hassk.	v	a	da, sg	3	sp-oc	dc-ja	jn-ja
CELASTRACEAE							
<i>Celastrus monospermus</i> Roxb.	wc	pe	mxf	3	ap-my	dc-fb	ja-dc
<i>Euonymus cochinchinensis</i> Lour.	t (l)	pe	mxf	3	ap-my	jl-ag	ja-dc
<i>Euonymus javanicus</i> Bl.	t	pe	mxf	3	mr-ap	jn-jl	ja-dc
RHAMNACEAE							
<i>Colubrina pubescens</i> Kurz	wc (s)	pd	bb/df, da	3	oc-nv	ja-fb	my-fb
<i>Gouania leptostachya</i> DC. var. <i>leptostachya</i>	wc	pe	streams in mxf	3	ag-sp	ja-fb	ja-dc
<i>Ventilago denticulata</i> Willd.	wc	pd	bb/df	3	oc-nv	ja-mr	ap-fb
VITACEAE							
<i>Ampelocissus martini</i> Planch.	v	pd	bb/df	3	jn-jl	sp-oc	jl-dc
<i>Cayratia tenuifolia</i> (Wight & Arn.) Gagnep. var. <i>tenuifolia</i>	v	pd	da, sg	3	jn-sp	jl-oc	ja-dc
<i>Cissus adnata</i> Roxb.	wc	pd	da, sg	3	nv-dc	mr-my	ap-dc
<i>Cissus</i> aff. <i>adnata</i> Roxb.	wc	pe	eg	3	jn-jl	sp-nv	ja-dc
<i>Cissus</i> aff. <i>assamica</i> (Laws.) Craib	wc	pd	bb/df	3	jn,jl	?	ap-dc
<i>Cissus discolor</i> Bl. var. <i>discolor</i>	v	pe	mxf	3	ag-sp	oc-nv	ja-dc
<i>Tetrastigma cruciatum</i> Craib & Gagnep.	wc (v)	pe	mxf	3	ap-my	sp-nv	ja-dc

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
<i>Tetrastigma lanceolarium</i> (Roxb.) Pl.	wc	pe	mxf	3	jn-jl	ag-oc	ja-dc
<i>Tetrastigma laoticum</i> Gagnep.	wc	pe	mxf	3	mr-my	jl-sp	ja-dc
<i>Tetrastigma obovatum</i> (Laws.) Gagnep.	wc	pde	mxf	3	ap-my	ja-mr	ja-dc
<i>Tetrastigma</i> sp.	v	pe	mxf	3	ja-fb	ap-my	ja-dc
LEEACEAE							
<i>Leea diffusa</i> Laws.	l	pp	bb/df	3	oc-nv	dc-fb	jn-fb
<i>Leea indica</i> (Burm. f.) Merr.	l	pe	mxf	3	my-sp	ag-oc	ja-dc
<i>Leea rubra</i> Bl. ex Spreng.	l	pde	mxf	3	jn-ag	ag-nv	ja-dc
SAPINDACEAE							
<i>Allophyllus cobbe</i> (L.) Raeusch.	l	pde	da, sg, mxf	3	jn-ag	ag-sp	ja-dc
<i>Nephelium cuspidatum</i> Bl. (cultivated)	t	pe	da	2	ja-fb	ap-my	ja-dc
<i>Nephelium hypoleucum</i> Kurz	t	pe	mxf	4	mr-ap	ap-my	ja-dc
<i>Sapindus rarak</i> DC.	t	pd	mxf	3	mr-ap	nv-dc	my-ja
<i>Schleichera trijuga</i> Willd.	t	pd	bb/df	3	mr-ap	jn-jl	my-dc
HIPPOCASTANACEAE							
<i>Aesculus assamica</i> Griff.	t	pe	streams in mxf	3	mr-ap	?	ja-dc
STAPHYLEACEAE							
<i>Turpinia pomifera</i> (Roxb.) Wall. ex DC.	t (l)	pe	sg, mxf	3	ja-fb	oc-dc	ja-dc
SABIACEAE							
<i>Meliosma simplicifolia</i> (Roxb.) Walp. ssp. <i>fordii</i> (Hemsl. ex Forb. & Hemsl.) Beus.	t	pe	streams in mxf	3	fb-mr	jl-sp	ja-dc
ANACARDIACEAE							
<i>Lannea coromandelica</i> (Houtt.) Merr.	t	pd	bb/df	3	ja-fb	ap-my	jn-dc
<i>Parishia insignis</i> Hk. f.	t	pd	mxf	3	?	ja-fb	jn-fb
<i>Rhus</i> sp.	t	pd	da, bb/df	3	ja-fb	ap-my	ap-ja

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
<i>Semecarpus cochinchinensis</i> Engl.	t	pe	mxf	3	dc-fb	mr-ap	ja-dc
<i>Spondias pinnata</i> (L. f.) Kurz	t	pd	bb/df, mxf	4	ja-fb	dc-fb	my-dc
<i>Swintonia schwenkii</i> (T. & B.) T. & B. ex Kurz	t	pe	mxf	3	?	mr-ap	ja-dc
CONNARACEAE							
<i>Connarus semidecandrus</i> Jack	wc	pe	mxf	3	mr-ap	ap-jn	ja-dc
LEGUMINOSAE (MIMOSOIDEAE)							
<i>Acacia megaladena</i> Desv. var. <i>megaladena</i>	wc	pd	bb/df	4	ap-my	nv-dc	ap-fb
<i>Acacia torta</i> (Roxb.) Craib	wc	pe	streams in mxf	3	oc-nv	fb-mr	ja-dc
<i>Adenanthera pavonina</i> L. var. <i>microsperma</i> (Teijsm. & Binn.) Niels.	t	pd	bb/df, sg	4	ap-my	ja-fb	my-ja
<i>Albizia lucidior</i> (Steud.) Niels.	t	pd	mxf	3	mr-ap	dc-mr	my-mr
<i>Entada rheedii</i> Spreng.	wc	pd	sg, mxf	3	mr-ap	nv-fb	my-mr
<i>Mimosa pudica</i> L.	h	pe	da, sg	4	ag-nv	nv-ja	ja-dc
<i>Parkia sumatrana</i> Miq.	t	pd	streams in mxf	2	nv-dc	my-jl	jn-mr
<i>Xylia xylocarpa</i> (Roxb.) Taub. var. <i>kerrii</i> (Craib & Hutch.) Niels.	t	pd	bb/df, mxf	4	mr-ap	mr-ap	ap-ja
LEGUMINOSAE (CAESALPINOIDEAE)							
<i>Bauhinia viridescens</i> Desv. var. <i>hirsuta</i> K. & S.S. Lar.	s	pd	bb/df, mxf	3	sp-oc	ja-fb	my-fb
<i>Caesalpinia crista</i> L.	wc	pd	da, sg	3	oc-nv	ja-fb	my-fb
<i>Caesalpinia cucullata</i> Roxb.	wc	pe	mxf	3	dc-ja	mr-ap	ja-dc
<i>Caesalpinia furfuracea</i> (Prain) Hatt.	wc	pd	da, sg	3	nv-dc	fb-mr	ap-dc
<i>Cassia alata</i> L.	l (s)	pe	da, sg	3	oc-dc	ja-mr	ja-dc
<i>Cassia fistula</i> L.	t	pd	bb/df, mxf	3	mr-ap	nv-ja	ap-ja
<i>Cassia tora</i> L.	h	a	da, sg, bb/df	4	sp-oc	nv-ja	my-dc

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
<i>Saraca declinata</i> (Jack) Miq.	t	pe	mxf	3	sp-oc	ja-mr	ja-dc
LEGUMINOSAE (PAPILIONOIDEAE)							
<i>Butea superba</i> Roxb.	wc	pd	bb/df	3	ja-fb	?	my-dc
<i>Cajanus goensis</i> Dalz.	v	pe	da, sg	3	ja-fb	sp-oc	my-fb
<i>Callerya (Milletia) atropurpurea</i> (Wall.) Gees.	t	pe	mxf	3	ja-fb	ap-jn	ja-dc
<i>Canavalia ensiformis</i> (L.) A. DC.	v	pe	da, sg, bb/df	3	oc-nv	mr-ap	jn-mr
<i>Dalbergia discolor</i> Bl. ex Miq.	wc	pd	da, sg, bb/df	3	jn-jl	nv-ja	ap-fb
<i>Dalbergia oliveri</i> Gamb. ex Prain	t	pd	bb/df, mxf	3	ap-my	ag-sp	my-dc
<i>Desmodium gangeticum</i> (L.) DC.	l	pd	da, sg, bb/df	3	oc-nv	ja-fb	my-fb
<i>Desmodium oblongum</i> Wall. ex Bth.	l	pd	bb/df	3	nv-ja	dc-fb	ap-fb
<i>Desmodium triangulare</i> (Retz.) Merr. l (s) spp. <i>triangulare</i> var. <i>triangulare</i>		pd	da, sg	3	oc-dc	dc-fb	my-fb
<i>Desmodium triquetrum</i> (L.) DC. ssp. <i>triquetrum</i>	l	pd	da, sg	3	oc-dc	dc-fb	ap-fb
<i>Dunbaria circinalis</i> (Bth.) Bak.	v	a	da, sg	3	nv-ja	ja-mr	my-mr
<i>Dysolobium grande</i> (Wall. ex Bth.) Prain	v	a	da, sg, bb/df	3	oc-nv	dc-fb	my-fb
<i>Erythrina subumbrans</i> (Hassk.) Merr.	t	pd	bb/df, mxf	3	dc-fb	mr-ap	ap-dc
<i>Flemingia macrophylla</i> (Willd.) Prain	l	pd	bb/df	4	oc-dc	ja-fb	my-fb
<i>Milletia extensa</i> (Bth.) Bth. ex Baker	wc	pd	da, sg, bb/df	3	mr-ap	oc-dc	my-mr
<i>Pachyrhizus erosus</i> (L.) Urb. (cultivated & escaped)	v	a	da, sg	3	sp-oc	nv-dc	my-dc
<i>Pueraria candollei</i> Grah. ex Bth.	wc	pd	mxf	2	ja-fb	ap-my	my-mr
<i>Pueraria lobata</i> (Willd.) Ohwi var. <i>montana</i> (Lour.) Maes.	wc	pd	da, sg, mxf	2	sp-oc	dc-ja	my-ja
<i>Shutteria hirsuta</i> Baker	v	a	da, sg, bb/df	3	nv-ja	fb-mr	jn-mr

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
<i>Shutteria</i> sp.	v	a	da, sg	2	?	ja-fb	jn-mr
<i>Spatholobus acuminatus</i> Wall. ex Bth.	wc	pe	streams in da, sg	2	?	ja-mr	ja-dc
<i>Teramnus labialis</i> (L.f.) Spring.	v	a	bb/df	3	oc-nv	ja-fb	my-fb
<i>Uraria campanulata</i> (Wall. ex Bth.) Gagnep.	s (h)	pd	bb/df	3	oc-nv	nv-ja	my-ja
<i>Vigna umbellata</i> (Willd.) Ohwi & Oha. var. <i>umbellata</i>	v	a	da, sg, bb/df	3	dc-ja	fb-mr	my-mr
ESCALIONIACEAE							
<i>Itea riparia</i> Coll. & Hemsl.	s	pe	streams in mxf	2	nv-ja	ja-mr	ja-dc
COMBRETACEAE							
<i>Anogeissus acuminata</i> (Roxb. ex Dc.) Guill. & Perr.	t	pd	bb/df	3	ja-mr	ap-my	my-ja
<i>Calycopteris floribunda</i> (Roxb.) Lmk.	wc	pd	bb/df	3	ja-fb	mr-my	my-dc
<i>Combretum chinense</i> Roxb. ex G. Don	wc	pd	streams in mxf	2	oc-nv	ja-fb	mr-fb
<i>Combretum latifolium</i> Bl.	wc	pe	da, sg	3	ja-fb	ap-my	ja-dc
<i>Quisqualis indica</i> L. var. <i>indica</i>	wc	pd	bb/df	3	ja-fb	mr-ap	my-ap
<i>Terminalia bellirica</i> (Gaertn.) Roxb.	t	pd	bb/df	3	mr-ap	oc-dc	my-mr
MYRTACEAE							
<i>Eugenia cerasiformis</i> (Bl.) DC.	t	pe	streams in mxf	4	oc-nv	dc-ja	ja-dc
<i>Eugenia filiformis</i> Duth.	l	pe	mxf	2	ja-fb	?	ja-dc
<i>Eugenia fruticosa</i> (DC.) Roxb.	t	pe	mxf	2	?	ap-my	ja-dc
<i>Eugenia megacarpa</i> Craib	t	pe	streams in mxf	3	ja-mr	my-jl	ja-dc
<i>Eugenia toddalioides</i> Wight	t	pe	mxf	3	?	jn-jl	ja-dc
LECYTHIDACEAE							
<i>Barringtonia acutangula</i> (L.) Gaertn. ssp. <i>spicata</i> (Bl.) Pay.	t	pe	bb/df, mxf	3	ap-my	sp-oc	ja-dc

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
LYTHRACEAE							
<i>Lagerstroemia speciosa</i> (L.) Pers. var. <i>speciosa</i>	t	pd	bb/df, mxf	3	my-jn	ag-mr	ap-ja
<i>Lagerstroemia tomentosa</i> Presl	t	pd	da, sg, bb/df	3	fb-mr	ap-my	ap-fb
SONNERATIACEAE							
<i>Duabanga grandiflora</i> (Roxb. ex DC.) Walp.	t	pe	mx	4	jl-sp	mr-my	ja-dc
ONAGRACEAE							
<i>Ludwigia hyssopifolia</i> (G. Don) Exell	h	a	da, sg, often in wet places	4	ja-dc	ja-dc	ja-dc
CUCURBITACEAE							
<i>Cucumis sativus</i> L.	v	a	da, sg	3	ag-oc	dc-ja	my-ja
<i>Gomphogyne cissiformis</i> Griff.	v	a	bb/df	3	sp-oc	nv-dc	my-dc
<i>Momordica cochinchinensis</i> (Lour.) Spr.	v	a	mx	3	ag-oc	ap-my	jn-my
<i>Neoalsomitra sarcophylla</i> (Wall.) Hutch.	v	pe	bb/df	3	oc-dc	?	ja-dc
<i>Neoalsomitra</i> (<i>Alsomitra plena</i> Craib)	v	pe	da, sg	3	oc-dc	?	ja-dc
<i>Thladiantha hookeri</i> Cl.	v	a	da, sg, mx	3	jn-nv	?	my-mr
<i>Trichosanthes cucumerina</i> L.	v	a	bb/df	3	sp-ap	mr-ja	my-mr
<i>Trichosanthes ovigera</i> Bl.	v	a	da, sg	3	sp-nv	jl-ag	my-mr
<i>Trichosanthes rubriflora</i> Thor. ex Cay.	v	pe	da, sg	3	jn-oc	sp-dc	ja-dc
<i>Zehneria maysorensis</i> (Wight & Arn.) Arn.	v	a	da, sg, mx	3	sp-nv	ny-ja	my-ja
BEGONIACEAE							
<i>Begonia demissa</i> Craib	h	pd	mx (Ls)	3	ag-sp	sp-oc	jn-oc
<i>Begonia notata</i> Craib	h	pd	mx (Ls)	3	jn-ag	ag-oc	jn-oc
<i>Begonia</i> aff. <i>subperfoliata</i> Parish ex Kurz	h	pd	bb/df mx (Ls)	3	ag-oc	sp-nv	jn-nv
<i>Begonia</i> sect. <i>uniplacentales</i> Cl.	h	pd	mx (Ls)	3	ag-oc	sp-nv	jn-nv

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
UMBELLIFERAE							
<i>Heracleum barmanicum</i> Kurz	h	a	bb/df	2	sp-nv	nv-dc	jn-dc
ARALIACEAE							
<i>Schefflera</i> sp.	Ep, s	pe	mxf	2	?	?	ja-dc
<i>Trevesia palmata</i> (DC.) Vis.	l	pe	mxf	3	ja-fb	ap-jn	ja-dc
RUBIACEAE							
<i>Aidia cochinchinensis</i> Lour.	t	pe	mxf	2	my-jn	ag-sp	ja-dc
<i>Aphaenandra uniflora</i> (Wall. ex G. Don) Brem.	h	a	da, sg, bb/df	2	jn-jl	ag-sp	my-oc
<i>Argostemma albovenatum</i> Gedd.	h	pd	mxf (Ls)	4	jn-ag	ag-sp	my-oc
<i>Argostemma condensum</i> Craib	h	pd	mxf (Ls)	4	jl-sp	sp-oc	my-oc
<i>Argostemma</i> aff. <i>dispar</i> Craib	h	pd	bb/df (Ls)	4	jn-ag	ag-sp	my-oc
<i>Argostemma parvum</i> Gedd.	h	pd	mxf (Ls)	4	jl-sp	sp-oc	my-oc
<i>Argostemma plumbeum</i> Craib	h	pd	mxf (Ls)	4	jl-sp	sp-oc	my-oc
<i>Argostemma</i> aff. <i>unifoliolide</i> King	h	pd	mxf (Ls)	4	jl-sp	sp-oc	my-oc
<i>Canthium dicoccum</i> (Gaertn.) T. & B. var. <i>dicoccum</i>	t	pe	mxf	3	oc-nv	ja-fb	ja-dc
<i>Canthium glabrum</i> Bl.	t	pe	da, sg, mxf	3	ap-my	sp-oc	ja-dc
<i>Catunaregam tomentosa</i> (Bl. ex DC.) Tirv.	s	pd	bb/df, mxf	3	mr-ap	jl-sp	ap-nv
<i>Catunaregam</i> sp.	t	pd	bb/df	3	?	jn-jl	my-nv
<i>Duperrea pavettifolia</i> (Kurz) Pit.	l (s)	pe	mxf	3	my-jn	ag-sp	ja-dc
<i>Gardenia coronaria</i> Ham.	t	pd	bb/df, mxf	2	mr-ap	ap-jn	mr-dc
<i>Geophila repens</i> (L.) I.M. John.	h	pe	bb/df, mxf	3	jn-jl	sp-nv	ja-dc
<i>Hydnophytum formicarum</i> Jack	Ep, h	pe	streams in mxf	2	?	?	ja-dc
<i>Hymenodictyon orixense</i> (Roxb.) Mabb.	t	pd	bb/df, mxf	3	my-jn	nv-fb	my-dc

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
<i>Ixora finlaysoniana</i> Wall. ex G. Don	s	pe	da, sg, mxf	3	mr-jn	oc-dc	ja-dc
<i>Ixora nigricans</i> Wight & Arn. var. <i>ovalis</i> Pit.	l	pe	mx	3	ag-sp	nv-dc	ja-dc
<i>Lasianthus wallichii</i> Wight	l	pe	mx	3	?	sp-oc	ja-dc
<i>Mitracarpus villosus</i> (Sw.) DC. (naturalized)	h	a	da, sg	4	jl-oc	ag-nv	my-dc
<i>Mitragyna rotundifolia</i> (Roxb.) O.K.	t	pd	bb/df	3	sp-oc	nv-ja	my-ja
<i>Mussaenda sandariana</i> Ridl.	s(scandent)	pe	da, sg, mxf	3	ja-mr	ap-jn	ja-dc
<i>Mycetia chasalioides</i> (Craib) Craib	l	pe	mx	3	jn-jl	?	ja-dc
<i>Mycetia paniculiformis</i> Fuku.	l	pe	mx	3	sp-oc	ja-fb	ja-dc
<i>Nauclea orientalis</i> (L.) L.	t	pe	streams in mx	2	mr-ap	ag-oc	ja-dc
<i>Ophiorrhiza gracilis</i> Kurz	v	a	mx (Ls)	2	jn-jl	sp-oc	my-nv
<i>Ophiorrhiza hispidula</i> Wall. ex G. Don var. <i>hispidula</i>	h	pe	mx	3	my-jl	ag-oc	ja-dc
<i>Paederia pilifera</i> Hk. f.	v	pe	da, sg, bb/df	3	ja-fb	jn-jl	ja-dc
<i>Psychotria calocarpa</i> Kurz	l	pd	mx	3	mr-ap	jn-jl	ja-dc
<i>Psychotria ophioxylodes</i> Wall.	l	pe	mx	3	ap-jn	oc-dc	ja-dc
COMPOSITAE							
<i>Blumea balsamifera</i> (L.) DC.	h	a-pe	da-sg	3	ap-my	my-jn	ja-dc
<i>Blumea napifolia</i> DC.	h	a	da, sg	3	ja-fb	fb-mr	my-mr
<i>Conyza sumatrensis</i> (Retz.) Walk.	h	a	da, sg	4	my-dc	jn-ja	mr-ja
<i>Eupatorium odoratum</i> L.	h	a-pe	da, sg	4	nv-ja	dc-fb	my-fb
<i>Vernonia pierrei</i> Gagnep.	h	a-pe	bb/df	3	dc-ja	mr-ap	my-fb
MYRSINACEAE							
<i>Ardisia attenuata</i> Wall. ex A. DC. var. <i>pubescens</i> Flet.	s	pe	mx	3	?	jn-jl	ja-dc

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
<i>Ardisia odontophylla</i> Wall. ex A. DC.	l	pe	mxf	2	jl-sp	ja-fb	ja-dc
<i>Maesa montana</i> A. DC.	l (s)	pe	da, sg	3	dc-fb	ap-jn	ja-dc
<i>Maesa ramentacea</i> Wall. ex Roxb.	t (l)	pe	da, sg	3	dc-fb	oc-dc	ja-dc
EBENACEAE							
<i>Diospyros hasseltii</i> Zoll.	t	pe	mxf	3	mr-ap	?	ja-dc
<i>Diospyros scortechinii</i> King & Gamb.	l	pe	mxf	2	?	ja-fb	ja-dc
SYMPLOCACEAE							
<i>Symplocos sumunita</i> B.-H. ex D. Don	t (l)	pe	mxf	3	dc-fb	ja-fb	ja-dc
OLEACEAE							
<i>Jasminum coarctatum</i> Roxb.	wc	pe	mxf	3	ap-my	jl-ag	ja-dc
<i>Jasminum subglandulosum</i> Kurz	wc	pe	mxf	3	oc-nv	mr-ap	ja-dc
<i>Myxopyrum smilacifolium</i> (Wall.) Bl. var. <i>smilacifolium</i>	wc	pe	mxf	3	mr-ap	jl-ag	ja-dc
APOCYNACEAE							
<i>Aganosma ? caryophyllata</i> Wall. ex. G. Don	wc	pe	da, sg, mxf	2	?	dc-fb	ja-dc
<i>Alstonia scholaris</i> (L.) R. Br. var. <i>scholaris</i>	t	pd	mxf	3	nv-dc	mr-ap	mr-fb
<i>Amalocalyx microlobus</i> Pierre ex Spire	v, wc	pd	mxf	3	jn-sp	nv-dc	my-dc
<i>Epigynum</i> sp.	wc	pe	mxf	3	jn-jl	?	ja-dc
<i>Holarrhena pubescens</i> (Buch.-Ham.) Wall. ex G. Don	t	pd	da, sg, bb/df	3	mr-ap	jn-sp	ap-mr
<i>Rauvolfia serpentina</i> (L.) Bth. ex Kurz	h	pd	da, sg, bb/df	3	ja-ap	jn-sp	my-mr
<i>Tabernaemontana</i> sp.	l	pe	mxf	2	?	jn-ag	ja-dc
ASCLEPIADACEAE							
<i>Dischidia hirsuta</i> (Bl.) Decne.	Ep, v	pe	streams in mxf	2	mr-ap	?	ja-dc

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
<i>Hoya acuta</i> Haw. var. <i>acuta</i> (Roxb. Wall. Wight)	Ep, v	pe	streams in mxf	3	fb-mr	jn-ag	ja-dc
<i>Hoya revoulti</i> Wight	Ep, v	pe	mxf	3	mr-ap	?	ja-dc
? <i>Hoya</i> sp.	wc	pe	mxf	2	?	?	ja-dc
<i>Marsdenia tinctoria</i> R. Br.	v	pe	mxf	3	ap-jn	dc-fb	ja-dc
<i>Myriopteron extensum</i> (Wight) K. Sch.	v	ag	da, sg	3	ag-sp	fb-mr	my-fb
<i>Raphistemma pulchellum</i> (Roxb.) Wall.	v	pe	da, sg, bb/df	2	sp-oc	?	ja-dc
<i>Tylophora</i> sp.	v	pe	mxf	3	jn-jl	?	ja-dc
LOGANIACEAE							
<i>Buddleja asiatica</i> Lour.	l (s)	pd	da, sg	3	oc-ja	dc-mr	my-mr
<i>Mitreola petiolata</i> (Gmel.) Torr. & A. Gray	h	a	da, sg, bb/df	3	sp-oc	oc-nv	my-nv
<i>Fagraea ceilanica</i> Thunb.	Ep, s	pe	mxf	2	my-jn	mr-ap	ja-dc
GENTIANACEAE							
<i>Gardneria ovata</i> Wall. ex oxb.	wc (v)	pe	mxf	2	ap-my	?	ja-dc
BORAGINACEAE							
<i>Heliotropium indicum</i> L.	h	a	da, sg	4	jn-nv	ag-dc	my-dc
<i>Rotula aquatica</i> Lour.	s	pe	streams in mxf	3	nv-ja	dc-fb	ja-dc
<i>Tournefortia intonsa</i> Kerr	v	pe	mxf	3	dc-ap	mr-jn	ja-dc
CONVOLVULACEAE							
<i>Argyreia capitiformis</i> (Poir.) Oost.	v	pe	da, sg, mxf	3	nv-ja	ja-mr	ja-dc
<i>Argyreia</i> (vide <i>Lettsomia versicolor</i> Kerr)	v	pe	da, sg, bb/df	3	sp-nv	dc-fb	ja-dc
<i>Lepistemon binectariferum</i> (Wall.) O.K. var. <i>binectariferum</i>	v	pe	da, sg	3	dc-fb	mr-my	ja-dc
<i>Merremia vitifolia</i> (Burm. f.) Hall. f.	v	pe	da, sg	3	ja-fb	mr-my	ja-dc
SOLANACEAE							
<i>Solanum macrodon</i> Wall. ex Nees	l (h)	pe	mxf	3	jl-sp	oc-fb	ja-dc

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
<i>Solanum verbascifolium</i> L. (naturalized)	l	pe	da, sg	4	jl-ja	ag-mr	ja-dc
SCROPHULARIACEAE							
<i>Lindenbergia philippensis</i> (Cham.) Bth.	h	a	da, sg, mxf	3	ja-mr	mr-ap	my-ap
<i>Scoparia dulcis</i> L. (naturalized)	h	a	da, sg	4	jn-ja	ji-fb	my-mr
OROBANCHACEAE							
<i>Aeginetia indica</i> Roxb.	Sa-Pa, h	pd	bb/df, mxf	3	ag-oc	sp-nv	leafless
<i>Aeginetia pedunculata</i> Wall.	Sa-Pa, h	pd	bb/df	2	jn-ag	ag-oc	leafless
LENTIBULARIACEAE							
<i>Utricularia striatula</i> Sm.	Ep, h	a	bb/df	2	ag-oc	sp-nv	my-nv
GESNERIACEAE							
<i>Aeschynanthus gracilis</i> Parish ex Cl.	Ep, v	pe	mx	3	ja-fb	jn-jl	ja-dc
<i>Aeschynanthus longicaulis</i> Wall. ex R. Br.	Ep, v	pe	mx	3	?	mr-ap	ja-dc
<i>Aeschynanthus macranthus</i> (Merr.) Pell.	Ep, h	pe	bb/df	3	oc-nv	ja-mr	ja-dc
<i>Boea? hygrometrica</i> (Bunge) R. Br.	h (Ls)	pd	bb/df	3	jl-ag	oc-nv	my-nv
<i>Epithema carnosum</i> (D. Don) Bth.	h, Ep, Ls	a, pd	mx	3	jl-sp	ag-oc	my-nv
<i>Rhynchoglossum obliquum</i> Bl.	h (Ls)	a	bb/df, mxf	3	sp-nv	oc-dc	my-dc
<i>Rhynchoglossum</i> sp.	h (Ls)	pd	bb/df	3	sp-nv	oc-dc	my-dc
<i>Stauranthera grandiflora</i> Bth.	h (Ls)	pd	mx	3	jn-sp	ag-oc	my-nv
BIGNONIACEAE							
<i>Fernandoa adenophylla</i> (Wall. ex G. Don) Steen.	t	pd	da, sg, bb/df	3	ag-oc	ja-fb	my-ja
<i>Markhamia stipulata</i> (Wall.) Seem. ex Sch. var. <i>stipulata</i>	t	pd	da, sg, bb/df	3	nv-fb	sp-ja	my-ja
<i>Oroxylum indicum</i> (L.) Kurz	t (l)	pd	da, sg, mxf	3	jl-dc	dc-my	my-dc
<i>Pajanelia longifolia</i> (Willd.) K. Sch.	t	pd	da, sg, mxf	2	dc-ja	?	my-fb

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
<i>Stereospermum colais</i> (B.-H. ex Dillw.) Mabb.	t	pd	bb/df	3	sp-nv	ap-my	my-dc
ACANTHACEAE							
<i>Asystasia chelonoides</i> Ness	h	a-p	da, sg	2	ja-fb	my-jn	ja-dc
<i>Barleria cristata</i> L.	h	pd	bb/df	3	sp-dc	nv-fb	my-fb
<i>Barleria strigosa</i> Willd.	h	pd	bb/df	3	sp-nv	nv-ja	my-fb
<i>Dipteracanthus repens</i> (L.) Hassk.	h	a	da, sg, bb/df	3	my-sp	jl-nv	ap-dc
<i>Eranthemum tetragonum</i> Wall. ex Nees	h	a-p	bb/df, mxf	3	dc-fb	fb-ap	ja-dc
<i>Justicia caloneura</i> Kurz	h	pe	mxf	3	sp-nv	dc-ja	ja-dc
<i>Justicia distincta</i> Imlay	h	pe	da, sg, mxf	3	mr-ap	ag-sp	ja-dc
<i>Justicia glabra</i> Koen. ex Nees	h	pe	mxf	3	ja-fb	my-jn	ja-dc
<i>Justicia oreophila</i> Cl.	h	a-pe	bb/df	3	sp-nv	ja-fb	ja-dc
<i>Lepidagathis fasciculata</i> Nees	h	a	da, sg	3	dc-fb	ja-mr	my-mr
<i>Lepidagathis incurva</i> Ham. ex D. Don	h	a-pe	bb/df	3	nv-fb	ja-ap	(ja) my-dc
<i>Lepidagathis thyrsiflora</i> Brem.	h	a	mxf	3	dc-fb	ja-mr	my-mr
<i>Perilepta siamensis</i> (Cl.) Brem.	h	a-p	bb/df	3	nv-ja	ja-fb	(ja) my-fb
<i>Phaulopsis dorsiflora</i> (Retz.) Sant.	h	a-pe	da, sg, bb/df	3	dc-fb	ja-mr	(ja) my-mr
<i>Pseuderanthemum crenulatum</i> (Wall. ex Lindl.) Radlk.	h	pe	mxf	3	dc-fb	ja-mr	ja-dc
<i>Pseuderanthemum</i> aff. <i>crenulatum</i> (Wall. ex Lindl.) Radlk.	h	pe	mxf	3	dc-fb	ja-mr	ja-dc
<i>Pseuderanthemum latifolium</i> (Vahl) B. Han.	l (s)	pe	mxf	3	nv-ja	ja-mr	ja-dc
<i>Pseuderanthemum parishii</i> (T. And.) Lindau	h	pe	mxf	3	ja-mr	fb-ap	ja-dc
<i>Rungia parviflora</i> Nees var. <i>parviflora</i>	h	a	bb/df	3	sp-ja	oc-fb	my-fb

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
<i>Staurogyne glauca</i> (Nees) O.K.	h	a	bb/df, mxf	3	ja-fb	fb-ap	my-ap
<i>Strobilanthes</i> aff <i>acuminatus</i> (Nees) T. And.	s (h)	pe	streams in mxf	3	dc-ja	fb-mr	ja-dc
<i>Strobilanthes coloratus</i> Wall. ex T. And. var. <i>crinita</i> (T. And.) Cl.	l (s)	pd	bb/df (Ls)	2	nv-ja	ja-fb	my-dc
<i>Strobilanthes esquirolii</i> Lev.	s (h)	pe	mxf	3	dc-ja	fb-ap	ja-dc
<i>Strobilanthes turginodis</i> Imlay	l (s)	pe	mxf	3	ag-oc	dc-fb	ja-dc
<i>Thunbergia laurifolia</i> Lindl.	v, wc	pe	da, sg streams in mxf	3	sp-ap	dc-jn	ja-dc
VERBENACEAE							
<i>Clerodendrum infortunatum</i> L.	l	pe	da, sg	3	fb-ap	ap-my	ja-dc
<i>Congea tomentosa</i> Roxb. var. <i>tomentosa</i>	wc	pd	da, sg, bb/df, mxf	3	dc-fb	fb-ap	my-dc
<i>Gmelina arborea</i> Roxb.	t	pd	da, sg, bb/df	3	ja-fb	ap-my	my-dc
<i>Premna corymbosa</i> (Burm. f.) Rottl. & Willd. var. <i>corymbosa</i>	wc	pe	mxf	3	fb-mr	ap-my	ja-dc
<i>Premna pyramidata</i> Wall. ex Schauer	t	pe	da, sg streams in mxf	3	jn-jl	ag-sp	ja-dc
<i>Premna scandens</i> Roxb.	wc	pe	da, sg, mxf	3	jn-ag	ag-oc	ja-dc
<i>Sphenodesme involucrata</i> (Presl) Rob. var. <i>involucrata</i>	wc	pe	streams in mxf	3	nv-ja	fb-ap	ja-dc
<i>Vitex quinata</i> (Lour.) Will.	t	pd	da, sg, bb/df, mxf	3	mr-ap	jl-ag	my-ja
LABIATAE							
<i>Anisomeles indica</i> (L.) O.K.	h	a	da, sg	3	sp-ja	oc-fb	my-fb
<i>Gomphostemma oblongum</i> Wall. ex Bth.	s	pe	mxf	3	jn-ag	ag-oc	ja-dc
<i>Hyptis brevipes</i> Poit.	h	a	wet da, sg	3	sp-nv	oc-dc	my-dc
<i>Hyptis capitata</i> Jacq.	h	a	da, sg	3	nv-ja	dc-fb	my-dc
<i>Plectranthus</i> sp.	h	pd	bb/df (Ls)	2	sp-oc	oc-nv	my-dc
<i>Pogostemon macgregori</i> W.W. Sm.	h	a	da, sg, mxf (Ls)	2	dc-ja	ja-mr	my-mr

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
NYCTAGINACEAE							
<i>Pisonia umbellata</i> (Forst.) Seem.	t	pe	mxf (Ls)	2	nv-dc	ap-my	ja-dc
AMARANTHACEAE							
<i>Achyranthes aspera</i> L.	h	a	da, sg	4	nv-ja	ja-mr	my-mr
<i>Aerva sanguinolenta</i> (L.) Bl.	h	pe	da, sg	3	ja-mr	fb-ap	ja-dc
<i>Amaranthus gracilis</i> Desf.	h	a	da, sg	4	ja-dc	ja-dc	ja-dc
<i>Amaranthus spinosus</i> L.	h	a	da, sg	4	ja-dc	ja-dc	ja-dc
POLYGONACEAE							
<i>Polygonum barbatum</i> L.	h	a	moist da, sg	3	ja-dc	ja-dc	ja-dc
ARISTOLOCHIACEAE							
<i>Aristolochia tagala</i> Cham.	v	pd	bb/df	3	sp-nv	ja-mr	my-mr
<i>Thottea sumatrana</i> (Merr.) Hou	h	pe	mxf	2	my-jl	ag-sp	ja-dc
PIPERACEAE							
<i>Peperomia pellucida</i> (L.) H.B.K. (naturalized)	h	pe	da-sg	3	jl-nv	ag-dc	ja-dc
<i>Piper sarmentosum</i> Roxb. ex Hunt. (cultivated & escaped)	v (h)	pe	da, sg	3	ag-oc	?	ja-dc
<i>Piper</i> aff. <i>sylvaticum</i> Roxb.	v	pe	bb/df, mxf	2	ag-oc	?	ja-dc
<i>Piper umbellatum</i> L. var. <i>glabrium</i> (Miq.) DC.	s	pe	da, sg in mxf	2	ja-dc	?	ja-dc
CHLORANTHACEAE							
<i>Chloranthus erectus</i> (B.-H.) Verd.	s	pe	mxf	3	my-ag	oc-dc	ja-dc
MYRISTICACEAE							
<i>Knema linifolia</i> (Roxb.) Walp.	t	pe	mxf	3	ja-fb	mr-ap	ja-dc
LAURACEAE							
<i>Cryptocarya</i> sp.	t	pe	mxf	3	ap-jn	?	ja-dc
<i>Litsea albicans</i> Kurz	l	pe	mxf	2	mr-my	ag-sp	ja-dc
<i>Litsea glutinosa</i> (Lour.) C.B. Rob.	t	pd	da, sg	3	mr-ap	ag-sp	my-ap
HERNANDIACEAE							
<i>Illigera trifoliata</i> (Griff.) Dunn ssp. <i>cucullata</i> (Merr.) Kub.	wc	pe	da, sg, mxf	3	mr-ap	ap-my	ja-dc

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
PROTEACEAE							
<i>Helicia formosana</i> Hemsl. var. <i>oblanceolata</i> Sleum.	t	pe	mxf	2	ap-my	mr-jn	ja-dc
LORANTHACEAE							
<i>Dendrophthoe pentandra</i> (L.) Miq.	Ep, Pa s	pe	da, sg	3	dc-ap	fb-my	ja-dc
<i>Macrosolen cochinchinensis</i> (Lour.) Tiegh.	Ep, Pa s	pe	da, sg	3	oc-fb	ja-ap	ja-dc
<i>Viscum articulatum</i> Burm. f. (hyperparasite)	Ep, Pa, s	pe	da, sg	2	ja-dc	ja-dc	ja-dc
<i>Viscum ovalifolium</i> Wall. ex DC.	Ep, Pa s	pe	mxf	3	ja-mr	my-jl	ja-dc
BALANOPHORACEAE							
<i>Balanophora latisejala</i> (Tiegh.) Lec.	Pa, h	pd	mxf	2	sp-ja	?	leafless
EUPHORBIACEAE							
<i>Actephila excelsa</i> (Dalz.) M.-A. var. <i>excelsa</i>	l	pe	mxf	3	jn-ag	?	ja-dc
<i>Antidesma acidum</i> Retz.	l	pd	bb/df	3	my-jn	sp-nv	my-ja
<i>Antidesma montanum</i> Bl.	t (l)	pe	mxf	3	ap-my	ag-sp	ja-dc
<i>Antidesma velutinosum</i> Bl.	l (s)	pe	mxf	3	ap-my	ag-sp	ja-dc
<i>Antidesma velutinum</i> Tul.	l	pe	mxf	3	ap-my	ag-sp	ja-dc
<i>Aporusa villosa</i> (Lindl.) Baill.	l	pd	bb/df, mxf	3	ja-mr	mr-my	ap-fb
<i>Baccaurea ramiflora</i> Lour.	t	pe	mxf	3	fb-mr	my-jl	ja-dc
<i>Bailospermum montanum</i> (Willd.) M.-A.	s (h)	pe	bb/df	3	ja-dc	ja-dc	ja-dc
<i>Bischofia javanica</i> Bl.	t	pd	bb/df	2	fb-mr	oc-dc	mr-fb
<i>Breynia angustifolia</i> Hk. f.	l	pde	bb/df	3	ap-jn	jn-ag	ja-dc
<i>Bridelia stipularis</i> (L.) Bl.	wc	pd	bb/df	3	sp-nv	ja-mr	my-ap
<i>Chaetocarpus castanocarpus</i> (Roxb.) Thw.	t	pe	mxf	2	fb-ap	ap-my	ja-dc

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
<i>Claoxylon indicum</i> (Reinw. ex Bl.) Hassk.	t	pe	da, sg	2	my-jn	ag-sp	ja-dc
<i>Cleidion spiciflorum</i> (Burm. f.) Merr.	t	pe	mxf	3	ja-fb	mr-my	ja-dc
<i>Cleistanthus myrianthus</i> (Hassk.) Kurz	t	pe	mxf	3	mr-ap	?	ja-dc
<i>Croton delpyi</i> Gagnep.	t	pd	bb/df, mxf	3	fb-ap	ap-jn	ap-mr
<i>Croton oblongifolius</i> Roxb.	t	pd	bb/df	3	dc-mr	mr-ap	my-fb
<i>Croton robustus</i> Kurz	t	pd	bb/df	3	dc-fb	ap-my	my-ap
<i>Dalechampia</i> sp.	v	pe	da, sg, bb/df	2	sp-oc	dc-ja	ja-dc
<i>Euphorbia antiquorum</i> L.	l	pd	da, sp, bb/df (Ls)	2	oc-nv	ap-my	my-fb
<i>Euphorbia hirta</i> L. (naturalized)	h	a	da, sg	4	ja-dc	ja-dc	ja-dc
<i>Euphorbia thymifolia</i> L.	h	pe	da, sg	3	ja-dc	ja-dc	ja-dc
<i>Excoecaria oppositifolia</i> Griff.	t	pe	mxf	2	?	ag-sp	ja-dc
<i>Glochidion rubrum</i> Bl.	t	pe	da, sg, bb/df	3	ja-ap	mr-jn	ja-dc
<i>Homonoia riparia</i> Lour.	s	pe	streams in mxf (rheophyte)	4	fb-ap	jn-ag	ja-dc
<i>Jatropha curcas</i> L. (cultivated)	s, l	pe	da, sg	3	ja-dc	ja-dc	ja-dc
<i>Macaranga denticulata</i> (Bl.) M.-A.	t	pe	da, sg	3	mr-ag	jl-oc	ja-dc
<i>Macaranga gigantea</i> (Rchb. f. & Zoll.) M.-A.	t	pe	da, sg	3	mr-my	jn-ag	ja-dc
<i>Mallotus cuneatus</i> Ridl.	l	pe	mxf	3	ap-my	jl-ag	ja-dc
<i>Mallotus khasianus</i> Hk. f.	t (l)	pe	mxf	3	oc-nv	ja-fb	ja-dc
<i>Mallotus peltatus</i> (Geisel.) M.-A.	t (l)	pe	mxf	3	ap-my	jl-ag	ja-dc
<i>Phyllanthus emblica</i> L.	t (l)	pd	bb/df, mxf	3	fb-mr	sp-fb	ap-fb
<i>Phyllanthus mirabilis</i> M.-A.	l (h)	pd	bb/df (Ls)	2	nv?	?	my-dc
<i>Phyllanthus ridleyanus</i> A.S.	wc	pe	mxf	2	ja-fb	?	ja-dc

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
<i>Ptychopyxis plagiocarpa</i> A.S.	t	pe	mxf	2	?	ap-my	ja-dc
<i>Sauropus</i> aff. <i>androgynus</i> (L.) Merr.	l	pe	da, sg	2	jn-ag	jl-sp	ja-dc
<i>Sauropus</i> sp.	l	pe	mxf	2	ap-my	?	ja-dc
<i>Securinega virosa</i> (Roxb. ex Willd.) Baill.	l (s)	pd	streams in da, sg	4	ap-jn	ap-ja	my-fb
<i>Trewia nudiflora</i> L.	t	pd	streams in bb/df	3	ja-fb	jn-jl	mr-dc
ULMACEAE							
<i>Celtis timorensis</i> Span.	t	pe	da, sg, mxf	3	ja-fb	mr-ap	ja-dc
MORACEAE							
<i>Artocarpus lakoocha</i> Roxb.	t	pd	da, sg	3	fb-ap	dc-mr	fb-dc
<i>Artocarpus lanceolata</i> Trec.	t	pe	mxf	3	sp-oc	my-jn	ja-dc
<i>Broussonetia kurzii</i> (Hk. f.) Corn.	wc (s)	pd	da, sg	3	ja-mr	mr-ap	my-dc
<i>Broussonetia papyrifera</i> (L.) Vent.	t (l)	pde	da, sg	3	mr-ap	jn-jl	ja-dc
<i>Ficus fistulosa</i> Reinw. ex Bl. var. <i>fistulosa</i>	t	pde	da, sg, bb/df	3	ja-dc	ja-dc	ja-dc
<i>Ficus heterophylla</i> L. f. var. <i>heterophylla</i>	wc	pe	wet da, sg	3	my-sp	jn-oc	ja-dc
<i>Ficus hispida</i> L. f. var. <i>hispida</i>	t (l)	pde	da, sg	3	ja-dc	ja-dc	ja-dc
<i>Ficus microcarpa</i> L. f. var. <i>microcarpa</i> forma <i>microcarpa</i>	t	pe	mxf	3	fb-jn	mr-jl	ja-dc
<i>Ficus rumphii</i> Bl.	t	pd	da, sg	3	mr-my	ap-jn	ap-dc
<i>Ficus semicordata</i> B.-H. ex J.E. Sm. var. <i>semicordata</i>	t (l)	pd-e	da, sg	3	ja-dc	ja-dc	ap-fb (mr)
<i>Ficus superba</i> (Miq.) Miq. var. <i>japonica</i> Miq.	t	pd	streams in mxf	3	sp-oc	oc-nv	my-dc
<i>Ficus</i> sp.	wc	pe	mxf	3	my-jl	jn-ag	ja-dc
<i>Ficus</i> sp.	wc	pe	streams in mxf	3	dc-fb	ja-mr	ja-dc

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
<i>Maclura amboinensis</i> Bl. var. <i>amboinensis</i>	wc	pe	da, sg, mxf	3	dc-ja	mr-ap	ja-dc
<i>Streblus taxoides</i> (Hey. ex Roth) Kurz	l	pe	mxf	4	oc-ja	mr-my	ja-dc
URTICACEAE							
<i>Boehmeria clidemioides</i> Miq. var. <i>clidemioides</i>	s, scandent	pe	bb/df, mxf	3	sp-oc	oc-nv	ja-dc
<i>Boehmeria hamiltoniana</i> Wedd.	wc	pd	mxf (Ls)	2	dc-ja	fb-mr	my-mr
<i>Boehmeria platyphylla</i> D. Don	h, s	pe	da, sg, mxf	3	ag-oc	sp-nv	ja-dc
<i>Boehmeria zollingeriana</i> Wedd.	t (l)	pe	da, sg, mxf	3	sp-nv	nv-dc	ja-dc
<i>Debregeasia longifolia</i> (Burm. f.) Wedd.	l (s)	pe	da, sg	3	ag-oc	oc-dc	ja-dc
<i>Debregeasia squamata</i> King ex Hk. f. forma <i>squamata</i>	l (s)	pe	moist places in da, sg	2	oc-nv	ja-fb	ja-dc
<i>Dendrocnide sinuata</i> (Bl.) Chew	t	pe	mxf	2	sp-oc	nv-dc	ja-dc
<i>Distemon indica</i> Wedd.	h	a-p	bb/df	3	jn-ag	ag-oc	ja-dc
<i>Elatostema integrifolium</i> (D. Don) Wedd.	h	pe	mxf	3	mr-my	my-jl	ja-dc
<i>Elatostema lineolatum</i> Wight var. <i>majus</i> Wedd.	Ep, h	pe	da, sg, mxf	3	jl-sp	ag-oc	ja-dc
<i>Laportea interrupta</i> (L.) Chew	h	a	da, sg	3	jn-nv	jl-dc	my-dc
<i>Pellionia bulbifera</i> (Kurz) Hk. f. var. <i>bulbifera</i>	h	pe	mxf	3	sp-oc	oc-nv	ja-dc
<i>Pellionia latifolia</i> (Bl.) Boerl.	h	pe	mxf	3	jl-sp	ag-oc	ja-dc
<i>Pellionia repens</i> (Lour.) Merr.	h	pe	mxf	3	jn-ag	jl-sp	ja-dc
<i>Pilea</i> aff. <i>wightii</i> Wedd.	h	pd	mxf (Ls)	3	jn-ag	jl-sp	my-nv
<i>Poikilospermum lanceolatum</i> (Trec.) Merr.	wc	pe	mxf	3	mr-ap	?	ja-dc
<i>Pouzolzia zeylanica</i> (L.) Benn.	h	pd	da, sg	3	sp-nv	oc-dc	my-ja
FAGACEAE							
<i>Castanopsis argyrophylla</i> King ex Hk. f.	t	pe	mxf	2	mr-my	jl-sp	ja-dc

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
SALICACEAE							
<i>Salix tetrasperma</i> Roxb.	t	pd	streams in bb/df, mxf	3	nv-dc	dc-ja	dc-nv
MONOCOTS							
BUTOMACEAE							
<i>Tenagocharis latifolia</i> (D. Don) Buch.	h	a	open wet places	2	oc-nv	nv-dc	my-dc
COMMELINACEAE							
<i>Commelina diffusa</i> Burm. f.	h	pe	da, sg	4	my-dc	sp-fb	ja-dc
<i>Commelina paludosa</i> Bl.	h	pe	bb/df, mxf	3	sp-nv	nv-ja	ja-dc
<i>Pollia hasskarlii</i> R. Rao	h	pe	mxf	3	my-jl	ag-nv	ja-dc
ZINGIBERACEAE							
<i>Alpinia malaccensis</i> (Burm. f.) Rosc.	h	pe	da, sg	3	mr-my	ag-oc	ja-dc
<i>Amomum testaceum</i> Ridl.	h	pe	mxf	3	ap-my	ag-sp	ja-dc
<i>Amomum uliginosum</i> Koen.	h	pe	mxf	3	ap-my	ag-sp	ja-dc
<i>Boesenbergia longipes</i> (King & Prain) Schltr.	h	pd	mxf (Ls)	3	jl-sp	sp-nv	my-nv
<i>Boesenbergia rotunda</i> (L.) Mansf.	h	pd	bb/df	3	jn-ag	ag-oc	my-nv
<i>Caulokaempferia saxicola</i> K. Lar.	h	pd	mxf (Ls)	3	jl-sp	ag-oc	my-nv
<i>Costus speciosus</i> (Koeh.) J.E. Sm.	h	pd	bb/df, mxf	3	ag-sp	oc-dc	my-dc
<i>Curcuma petiolata</i> Roxb.	h	pd	bb/df	3	jn-jl	ag-sp	my-nv
<i>Curcuma roscoeana</i> Wall.	h	pd	bb/df	3	jn-ag	ag-oc	my-nv
<i>Curcuma</i> sp.	h	pd	bb/df	3	jn-oc	sp-nv	my-dc
<i>Etingera littoralis</i> (Kon.) Gise.	h	pe	mxf	3	mr-jn	jl-sp	ja-dc
<i>Globba</i> aff. <i>cernua</i> Bak.	h	pd	mxf (Ls)	3	jl-sp	sp-oc	my-nv
<i>Globba kerrii</i> Craib	h	pd	bb/df, mxf	3	jn-sp	sp-nv	my-dc
<i>Globba</i> aff. <i>multiflora</i> Wall. ex Bak.	h	pd	mxf (Ls)	3	jl-sp	sp-oc	my-dc
<i>Globba</i> aff. <i>obscura</i> K. Lar.	h	pd	mxf (Ls)	3	jn-ag	sp-oc	my-dc

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
<i>Globba substrigosa</i> King ex Bak. (<i>G. aphanantha</i> K. Lar.)	h	pd	mxf (Ls)	3	jn-ag	sp-oc	my-dc
<i>Kaempferia elegans</i> Wall.	h	pd	bb/df	3	jn-ag	sp-oc	my-dc
<i>Zingiber smilesianum</i> Craib	h	pd	bb/df	3	ag-oc	nv-ja	my-ja
MARANTACEAE							
<i>Donax cannaeformis</i> (G. Forst.) K. Sch.	h	pe	mxf	4	mr-my	jl-ag	ja-dc
<i>Halopogon brachystachys</i> Craib	h	pe	bb/df, mxf	3	ag-sp	oc-nv	ja-dc
LILIACEAE							
<i>Peliosanthes teta</i> Andr. ssp. <i>humilis</i> (Andr.) Jess.	h	pe-d	bb/df, mxf	3	ap-my	jl-sp	my-mr (ap)
AGAVACEAE							
<i>Dracaena angustifolia</i> Roxb.	l (h)	pe	mxf	3	fb-mr	oc-ja	ja-dc
AMARYLLIDACEAE							
<i>Crinum wattii</i> Baker	h	pd	bb/df	3	ap-my	?	ap-nv
SMILACACEAE							
<i>Smilax perfoliata</i> Lour.	v	pe	mxf	3	sp-mr	jl-ja	ja-dc
<i>Smilax</i> sp.	v	pe	mxf	3	?	?	ja-dc
ARACEAE							
<i>Aglaonema simplex</i> Bl.	h	pe	mxf	3	my-jn	oc-nv	ja-dc
<i>Alocasia alba</i> Schott	h	pe	mxf	3	jn-sp	?	ja-dc
<i>Amorphophallus</i> aff. <i>macrorhizus</i> Craib	h	pd	bb/df	2	fb-mr	my-jl	my-nv
<i>Amorphophallus maxwellii</i> Hett. (Blumea 39, 1 & 2 (1994), 263)	h	pd	bb/df	2	ap-jn	?	my-nv
<i>Amorphophallus muelleri</i> Bl.	h	pd	bb/df	3	ap-jn	dc-ja	my-nv
<i>Cryptocoryne retrospiralis</i> (Roxb.) Kunth	h	pe	streams in mxf	3	dc-ja	?	ja-dc
<i>Epipremnum giganteum</i> (Roxb.) Schott	v	pe	mxf	3	jl-ag	ja-mr	ja-dc
(creeper)							
<i>Homalomena</i> aff. <i>occulta</i> (Lour.) Schott	h	pe	mxf	3	my-ag	jl-oc	ja-dc

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
<i>Lasia spinosa</i> (L.) Thw.	h	pe	streams in mxf	3	fb-ap	my-jl	ja-dc
<i>Pothos cathcartii</i> Schott	v (creeper)	pe	mxf	3	fb-ap	sp-oc	ja-dc
<i>Remusatia pumila</i> (G. Don) H. Li & A. Hay	h	pd-e	often Ep; bb/df, mxf	2	jn-jl	?	ja-dc
<i>Remusatia vivipara</i> (Lodd.) Schott	h	pd	mxf	2	jn-jl	ag-sp	my-nv
<i>Rhaphidophora glauca</i> (Wall.) Schott	v (creeper)	pe	mxf	3	oc-dc	ap-jn	ja-dc
<i>Typhonium tentaculatum</i> Hett.	h	pd	bb/df	2	jn-jl	?	my-nv
<i>Typhonium trilobatum</i> (L.) Schott	h	pe	da, sg	3	ag-oc	jl-sp	ja-dc
DIOSCOREACEAE							
<i>Dioscorea alata</i> L.	v	pd	bb/df	3	oc-nv	ja-fb	my-ja
<i>Dioscorea arachidna</i> Prain & Burk. var. <i>arachidna</i>	v	pd	bb/df	3	sp-oc	dc-ja	my-ja
<i>Dioscorea bulbifera</i> L.	v	pd	da, sg, bb/df	3	sp-nv	ja-fb	my-ja
<i>Dioscorea pentaphylla</i> L.	v	pd	bb/df	3	sp-nv	ja-fb	my-ja
PALMAE							
<i>Arenga wightii</i> Griff.	t	pe	mxf	3	mr-ap	ap-jn	ja-dc
<i>Calamus</i> sp.	wc	pe	moist da, sg	3	mr-ap	fb-ap	ja-dc
<i>Caryota mitis</i> Lour.	t (l)	pe	mxf	2	ja-dc	ja-dc	ja-dc
<i>Salacca? conferta</i> Griff.	s	pe	mxf	2	?	?	ja-dc
<i>Wallichia caryotoides</i> Roxb.	t (l)	pe	mxf	2	?	?	ja-dc
PANDANACEAE							
<i>Pandanus pinniformis</i> Holt. & St. John	l	pe	bb/df	3	?	mr-jn	ja-dc
<i>Pandanus</i> sp.	l	pe	mxf	2	?	ap-ag	ja-dc
HYPOXIDACEAE							
<i>Curculigo capitulata</i> (Lour.) O.K.	h	pe	bb/df, mxf	3	ap-jn	sp-nv	ja-dc

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
<i>Molineria latifolia</i> (Dry. ex W.T. Ait.) Herb. ex Kurz	h	pe	mxf	3	my-jl	jl-sp	ja-dc
TACCACEAE							
<i>Tacca chantrieri</i> Andre	h	pe	mxf	3	jn-oc	sp-fb	ja-dc
ORCHIDACEAE							
<i>Ascocentrum curvifolium</i> (Lindl.) Schltr.	Ep, h	pe	mxf	3	mr-ap	?	ja-dc
<i>Brachycorythis helferi</i> (Rchb. f.) Summ.	G, h	pd	bb/df	2	jn-jl	?	my-oc
<i>Bulbophyllum cupreum</i> Lindl.	Ep, h	pe	mxf	2	dc-ja	?	ja-dc
<i>Calanthe rosea</i> (Lindl.) Bth.	h	pd	bb/df (Ls)	2	ja-fb	mr-ap	my-nv
<i>Cheirostylis yunnanensis</i> Rol.	Ep, h	pe	mxf	2	ja-fb	?	ja-dc
<i>Cleisostoma complilcatum</i> (Seid.) Garay	Ep, h	pe	bb/df	2	jn-jl	fr?	ja-dc
<i>Coelogyne trinervis</i> Lindl.	Ep, h	pe	mxf	3	sp-oc	dc-fb	ja-dc
<i>Corymborkis veratrifolia</i> (Reinw.) Bl.	G, h	pe	mxf	2	jl-ag	?	ja-dc
<i>Cymbidium bicolor</i> Lindl.	Ep, h	pe	mxf	2	mr-ap	jn-ag	ja-dc
<i>Dendrobium aphyllum</i> (Roxb.) Fischer	Ep, h	pe	mxf	2	mr-ap	jn-ag	ja-dc
<i>Dendrobium fimbriatum</i> Hk.	Ep, h	pe	mxf	2	mr-ap	jn-ag	ja-dc
<i>Dendrobium lindleyi</i> Steud.	Ep, h	pe	mxf	2	mr-ap	jn-ag	a-dc
<i>Dendrobium moschatum</i> (B.-H.) Sw.	Ep, h	pe	mxf	2	jn-jl	?	ja-dc
<i>Eria pubescens</i> Wight	Ep, h	pe	mxf	2	ja-fb	jn-jl	ja-dc
<i>Geodorum diversiflorum</i> (Lam.) Schltr.	G, h	pd	bb/df	2	jn-jl	sp-oc	my-oc
<i>Habenaria thailandica</i> Seid.	G, h	pd	bb/df	2	jn-ag	?	my-oc
<i>Liparis viridiflora</i> (Bl.) (Lindl.)	Ep, h	pe	bb/df, mxf	2	jl-ag	dc-fb	ja-dc
<i>Nervilia aragoana</i> Gaud.	G, h	pd	bb/df	2	mr-ap	jn-jl	my-oc

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
<i>Nervilia calcicola</i> Kerr	G, h	pd	bb/df	2	my-jn	jl-ag	jl-oc
<i>Nervilia plicata</i> (Andr.) Schltr.	G, h	pd	bb/df	2	my-jn	jl-ag	jl-oc
<i>Oberonia iridifolia</i> (Roxb.) Lindl.	Ep, h	pe	mxf	2	sp-oc	?	ja-dc
<i>Peristylus constrictus</i> (Lindl.) Lindl.	G, h	pd	bb/df	3	jn-jl	ag-sp	my-oc
<i>Phalaenopsis cornu-cervi</i> (Breda) Bl. & Rchb. f.	Ep, h	pd	mxf	2	fb-mr	?	ja-dc
<i>Vanda teres</i> Lindl.	Ep, h	pe	mxf	2	fb-mr	?	ja-dc
GRAMINEAE							
<i>Centosteca lappacea</i> (L.) Desv.	h	pe	da, sg, mxf	3	dc-fb	ja-mr	ja-dc
<i>Cyrtococcum accrescens</i> (Trin.) Stapf	h	pe	da, sg	3	ja-dc	ja-dc	ja-dc
<i>Cyrtococcum oxyphyllum</i> (Steud.) Stapf	h	pe	da, sg, mxf	3	ja-dc	ja-dc	ja-dc
<i>Eleusine indica</i> (L.) Gaertn.	h	a-p	da,sg	4	ja-dc	ja-dc	ja-dc
<i>Eragrostis tenella</i> (L.) P. Beauv. ex Roem. & Schult. var. <i>tenella</i>	h	pe	da, sg	3	my-oc	jn-nv	ja-dc
<i>Eragrostis unioloides</i> (Retz.) Nees ex Steud.	h	pe	da, sg	3	ag-dc	sp-ja	ja-dc
<i>Microstegium vagans</i> (Nees ex Steud.) A. Camus	h	pd	da, sg, bb/df	4	nv-ja	dc-fb	my-fb
<i>Neyraudia reynaudiana</i> (Kunth) Keng ex Hitch.	h	pe	moist da, sg	4	nv-fb	dc-mr	ja-dc
<i>Oplismenus compositus</i> (L.) P. Beauv.	h	pd	da, sg, bb/df	3	oc-ja	nv-fb	my-fb
<i>Ottochloa nodosa</i> (Kunth) Dandy	h	pe	bb/df	3	jl-oc	ag-nv	ja-dc
<i>Panicum sarmentosum</i> Retz.	h	pe	streams in da, sg	3	oc-ja	nv-fb	ja-dc
<i>Paspalum conjugatum</i> Berg.	h	pe	da, sg	3	ap-oc	my-nv	ja-dc
<i>Saccharum arundinaceum</i> Retz.	h	pe	da, sg	4	nv-fb	dc-mr	ja-dc

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
<i>Setaria palmifolia</i> (Koen.) Stapf var. <i>palmifolia</i>	h	pe	da, sg, bb/df	3	ag-oc	sp-nv	ja-dc
<i>Urochloa panicoides</i> P. Beauv. var. <i>panicoides</i>	h	pe	da, sg	3	jl-nv	ag-dc	ja-dc
GRAMINEAE (BAMBUSOIDEAE)							
<i>Gigantochloa apus</i> (Schult.) Kurz	s (h)	pe	mxf	4	ag-oc	oc-dc	ja-dc
<i>Gigantochloa nigro-ciliata</i> (Buese) Kurz	s (h)	pd	da, sg, bb/df	3	fb-ap	my-jn	my-ja
GYMNOSPERMS							
GNETACEAE							
<i>Gnetum latifolium</i> Bl. var. <i>funiculare</i> (Bl.) Mg.	wc	pe	mxf	3	ap-my	jl-sp	ja-dc
FERN ALLIES & FERNS							
SELAGINELLACEAE							
<i>Selaginella delicatula</i> (Desv.) Alst.	h	a	bb/df (Ls)	3	ag-oc	sp-nv	jn-nv
<i>Selaginella willdenowii</i> (Desv. ex Poir.) Bak.	v (h)		da in mxf	3	jl-sp	ag-oc	ja-dc
<i>Selaginella</i> sp.	h	a	mxf (Ls)	3	sp-oc	oc-nv	jn-nv
EQUISETACEAE							
<i>Equisetum debile</i> Roxb. ex Vauch.	h	pe	streams in mxf	2	nv-dc	nv-dc	ja-dc
SCHIZAEACEAE							
<i>Lygodium flexuosum</i> (L.) Sw.	v	pd	da, sg	3	ag-oc	sp-nv	jn-dc
<i>Lygodium salicifolium</i> Presl	v	pe	mxf	2	ap-ag	my-sp	ja-dc
DAVALLIACEAE							
<i>Davallia denticulata</i> (Burm. f.) Mett. ex Kuhn	Ep, h	pd	mxf	2	ag-oc	ag-oc	jn-dc
OLEANDRACEAE							
<i>Nephrolepis cordifolia</i> (L.) Presl	Ep, h	pd	bb/df	2	sp-oc	sp-oc	jn-oc
<i>Nephrolepis falcata</i> (Cav.) C. Chr.	Ep, h	pd	mxf	2	ag-oc	ag-oc	jn-oc
PARKERIACEAE							
<i>Adiantum philippense</i> L.	G, h	pd	mxf (often on Ls)	3	jl-sp	jl-sp	my-oc

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
<i>Doryopteris ludens</i> (Wall. ex Hk.) J. Sm.	h	pd	mx (Ls)	2	jl-sp	jl-sp	my-on
<i>Onychium siliculosum</i> (Desv.) C. Chr	G, h	pe	da-sg	2	nv-fb	nv-fb	ja-dc
<i>Pityrogramma calomelanos</i> (L.) Link	G, h	pe	da-sg	2	nv-fb	nv-fb	ja-dc
VITTARIACEAE							
<i>Vittaria elongata</i> Sw.	Ep, h	pe	da, sg, mx	2	jl-oc	jl-oc	ja-dc
PTERIDACEAE							
<i>Pteris linearis</i> Poir.	G, h	pe	mx	2	ag-nv	ag-nv	ja-dc
<i>Pteris venusta</i> O.K.	G, h	pe	da, sg, mx	3	ag-nv	ag-nv	ja-dc
<i>Pteris vittata</i> L.	G, h	pe	da, sg	3	jl-fb	jl-fb	ja-dc
ASPLENIACEAE							
<i>Asplenium nidus</i> L. var. <i>nidus</i>	Ep, h	pe	mx	2	jn-oc	jn-oc	ja-dc
LOMARIOPSIDACEAE							
<i>Bolbitis appendiculata</i> (Willd.) K. Iwats.	h	pe	mx (Ls)	2	sp-nv	sp-nv	ja-dc
DRYOPTERIDACEAE							
<i>Ctenitis subobscura</i> (Christ) Holtt.	h	pd	mx (Ls)	3	jn-sp	jn-sp	my-oc
<i>Cycloptis crenata</i> (Fee) C. Chr.	G, h	pe	mx	3	jn-sp	jn-sp	ja-dc
<i>Pleocnemia irregularis</i> (Presl) Holtt.	G, h	pe	mx	3	jl-sp	jl-sp	ja-dc
<i>Pteridrys cnemidaria</i> (Christ) C. Chr. & Ching	G, h	pe	mx	3	mr-jn	mr-jn	ja-dc
<i>Tectaria herpetocaulos</i> Holtt.	G, h	pe	mx	3	jl-nv	jl-nv	ja-dc
<i>Tectaria impressa</i> (Fee) Holtt.	G, h	pe	mx	3	jl-nv	jl-nv	ja-dc
THELYPTERIDACEAE							
<i>Amphineuron terminans</i> (Hk.) Holtt.	G, h	pe	mx	3	jl-oc	jl-oc	ja-dc
<i>Thelypteris heterocarpa</i> (Bl.) Mort.	G, h	pe	mx	3	nv-fb	nv-fb	ja-dc
<i>Thelypteris lebeufii</i> (Bak.) Pan.	G, h	pe	mx	3	jl-oc	jl-oc	ja-dc

Species	Habit	Season- ality	Habitat	Abun- dance	Phenology		
					fl	fr	If
<i>Thelypteris nudata</i> (Roxb.) Mort.	G, h	pe	streams in mxf	3	jl-sp	jl-sp	ja-dc
ATHYRIACEAE							
<i>Deparia subfluvialis</i> (Haya.) M. Kato	G, h	pe	streams in mxf	3	oc-fb	oc-fb	ja-dc
<i>Diplazium esculentum</i> (Retz.) Sw.	G, h	pe	streams in da, sg, bb/df	4	oc-fb	oc-fb	ja-dc
POLYPODIACEAE							
<i>Drymoglossum piloselloides</i> (L.) Presl	Ep, h	pe	da, sg, mxf	3	jn-oc	jn-oc	ja-dc
<i>Drynaria quercifolia</i> (L.) J. Sm.	Ep, h	pd	mxf	3	jl-sp	jl-sp	ja-dc
<i>Drynaria rigidula</i> (Sw.) Bedd.	Ep, h	pd	bb/df	3	ag-nv	ag-nv	my-nv
<i>Leptochilus axillaris</i> (Cav.) Kaulf.	Ep, h	pe	mxf	3	jl-sp	jl-sp	ja-dc
<i>Microsorium punctatum</i> (L.) Copel.	Ep, h	pe	da, sg	3	mr-jn	mr-jn	ja-dc
<i>Phymatosorus lucidus</i> (Roxb.) P.S.	Ep, h	pe	da, sg	3	jl-oc	jl-oc	ja-dc
<i>Platyserium wallichii</i> Hk.	Ep, h	pd	da, sg, bb/df	3	ap-sp	ap-sp	mr-oc
<i>Pyrrhosia stigmosa</i> (Sw.) Ching	Ep, h	pe	da, sg, mxf	3	jl-nv	jl-nv	ja-dc

Summary of results:

	Families	sp., ssp., var.
ANGIOSPERMS		
Dicots	90	422
Monocots	15	97
GYMNOSPERMS	1	1
FERN ALLIES & FERNS	14	39
Total	118	559

with one new record for the flora of Thailand:

Neothorelia laotica Gagnep. (Capparaceae)

and two new species:

Amorphophallus maxwellii Hett. (Araceae)

Typhonium tentaculatum Hett. (Araceae)