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The NEF Bio-ecological Nature Conservation Project in Mountainous Region of North Vietnam



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**FINAL RESEARCH
REPORT
PLANT GROUP**

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Acronyms

a.s.l.	Above sea level
CITES	Convention on International Trade in Endangered Species of Wild Fauna and Flora
CRES	Central Institute for Natural Resources and Environmental Studies
DARD	Department of Agriculture and Rural Development
IUCN	Red List of International Union for Conservation of Nature
MARD	Ministry of Agriculture and Rural Development
MOST	Ministry of Science and Technology
NEF	Nagao Natural Environment Foundation
NP	National Park
NR	Nature Reserve
SHCA	Species and Habitat Conservation Area
VAST	Vietnam Academy of Science and Technology
VNRDB	Red Data Book of Vietnam (2007)

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I. GENERAL INFORMATION

1.1. Group name and names of all members

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1.2. Reporting person(s)

Pham Van The, Trinh Ngoc Bon, Phan Ke Loc

1.3. Purpose

The purpose of the “Plants Group” is “Study on the flora and vegetation in northern Vietnam for species inventory, sustainable development and utilization”. The surveys were proposed to conduct in four protected areas including: 1) Cham Chu Nature Reserve (NR) of Tuyen Quang; 2) Bac Me NR of Ha Giang; 3) Phia Oac-Phia Den National Park (NP) of Cao Bang and; 4) Nam Xuan Lac Species and Habitat Conservation Area (SHCA) of Bac Kan provinces

1.4. Objectives

- Diversity and distribution assessment of vascular plants in the study area.
- Diversity and distribution assessment of vascular plants along gradient elevation in limestone mountains.
- Assessment on distribution and conservation status of rare and threatened, economic, and medicine species for long-term biodiversity monitoring purpose. Especially focus on *Cyathea*, Conifers, Magnolias, Orchids, Hoyas, *Aspidistra* groups.
- Training students including under and graduated students, and young researchers.
- Writing and publishing articles about the result which obtains from the project.

1.5. Reporting period

Three years: from 1 October 2018 to 30 September 2021

II. PROGRESS TO DATE

2.1 Summary

During the three years of the project, a total of 1769 species of 797 genera in 203 families were recorded from four protected areas. They belong to four phyla including Magnoliophyta, Polypodiophyta, Gnetophyta, and Pinophyta. Most of the plants belong to Magnoliophyta with 1638 species in 728 genera and 167 families. The Pinophyta composes 10 species in nine genera and five families. The area with the highest number of plant species is Cham Chu NR with 1,089 species, followed by Bac Me NR with 1037 species, Phia Oac – Phia Den NP with 822 species, and Nam Xuan Lac SHCA with 774.

Ten families with species richest include Lamiaceae with 40 species (2.26 % of the total recorded species), Malvaceae with 40 species (2.26%), Moraceae with 41 species (2.32%), Asteraceae with 42 (2.37%), Lauraceae with 54 species (3.05%), Euphorbiaceae with 64 species (3.62%), Poaceae with 66 species (3.73%), Orchidaceae with 68 species (3.84%), Fabaceae with 70 species (3.96%), and Rubiaceae with 74 (4.18%). Ten genera recorded with species richest in the four study areas include *Hedyotis* with 11 species (0.62% of the total recorded species), *Dioscorea* with 12 species (0.68%), *Litsea* with 12 species (0.68%), *Symplocos* with 12 species (0.68%), *Begonia* with 13 species (0.73%), *Lithocarpus* with 14 species (0.79%), *Rubus* with 14 species (0.79), *Syzygium* with 15 species (0.85%), *Magnolia* with 16 species (0.90%), and *Ficus* with 29 species (1.64%).

Most species recorded are a woody tree with 644 species, followed by herb with 523 species, shrub with 303 species, liana with 209 species, epiphyte (Epiph.) with 62 species, bambusoid (Bambu.) with 17 species, palm with 6 species, and aquatic with 2 species. In the four study areas, the total of species could be used as medicine plant are 753 species, followed by woody plants used for construction or furniture with 455 species, ornamental plants with 262 species, edible plants with 223 species, animal food plants with 92 species, bioactive plants with 50 species, fiber plants with 37 species and poisonous plant with 22 species.

Most species were found at around 1000 m a.s.l., the species reduced when elevation higher. The plant species composition in Nam Xuan Lac SHCA is most similar to that of Bac Me NR and Cham Chu NR. The species composition in Phia Oac – Phia Den NP is sometimes similar to that of Nam Xuan Lac SHCA and Cham Chu NR.

A total of 169 species were listed for national and international conservation and management priorities (Annex 4). Of which, 22 species were listed in IUCN Redlist of threatened species (2018), 78 species were listed in Vietnam Red Data Book (MOST and VAST, 2007), and 106 species were listed in Decree No. 06/2019/ND-CP of Vietnamese National Government, and 35 species were listed in CITES 2007.

The group has published four articles, submitted three manuscripts, and completed a guideline. On the other hand, two manuscripts in writing. In addition, four reports have been presented in workshops and seminars. For the education of young scientists, a BSc student graduated from the project, a Ph.D. student benefited from improving on plant field survey techniques and data collection. Two assistants were trained in field survey organization, and plant

investigation skills on line-transect, and plot. On the other hand, eight staff of the Phia Oac – Phia Den National Park were trained in “Biodiversity Investigation and Monitoring”.

2.2 Results of literature review

2.2.1. Cham Chu NR, Tuyen Quang Province

Cham Chu was established under Decision No. 1536/QĐ-UBND dated 21/09/2001 of the People's Committee of Tuyen Quang. The geographical coordinates of the NR from 22°14'17" to 22°21'307"N, and from 104°53'27" to 105°14'16"E. The protected area with a total of 15,902.1 hectares is located in the five communes: Yen Thuan, Phu Luu in Ham Yen district, Ha Lang, Trung Ha, and Hoa Phu in Chiem Hoa district. There are 29,703 persons belonging to 6,832 families of eight groups people living in the Cham Chu NR. The most group of people are Tay with about 15,522 persons, Dao with 7,343 persons, and Kinh with 4,749 persons. Almost local people are living based on agriculture and forestry.

According to the People's Committee of Tuyen Quang (2001), there were more than 1,500 plant species recorded in the Cham Chu NR. Of which, there were some threatened species such as Hoàng đàn - *Cupressus tonkinensis*, Pơ mu - *Fokienia hodginsii*, Thông tre - *Podocarpus neriifolius*, Nghiến - *Burretiodendron hsienmu*, Trai lý - *Garcinia fragraeoides*, Gù hương - *Cinnamomum parthenoxylon*, Chò chỉ - *Parashorea chinensis*. The planning report of the Department of Agriculture and Rural Development of Tuyen Quang Province (DARD Tuyen Quang, 2014) reported 906 plant species belonging to 137 families from Cham Chu NR.

According to Nguyen Trung Thanh & Chu Thai Ha (2009), Cham Chu NR was composed about 747 plant species. A total of 443 medicinal plant species were recorded in Cham Chu Nature Reserve Area belonging to 325 genera and 120 families (Pham Thi Oanh *et al.* 2018). Most of the medicinal plant species in Cham Chu Nature Reserve Area are Angiosperms with 425 species (95.94%) (360 species of Dicotyledonae, 65 species of Monocotyledonae), 6 species belong to the Gymnosperms (1.35%), 10 species are Polypodiophyta (2.26%), Psilotophyta and Lycopodiophyta are only one species (0.23%). The richest 3 families are Euphorbiaceae with 22 (4.97%) species, Rubiaceae with 17 (3.83%) species, and Asteraceae ranks third, with 16 (3.61%) species, respectively. In 2017, a newly recorded species, *Ficus squamosa* was reported from Cham Chu NR (Pham Thi Oanh *et al.* 2017)

2.2.2. Bac Me NR, Ha Giang Province

Bac Me NR was established under Decision No. 648/QĐ-UBND dated November 24, 1994, of the People's Committee of Ha Giang province with a total natural area of 9,016.3 hectares. The Nature Reserve is located in the three communes: Lac Nong, Minh Ngoc, and Thuong Tan in Bac Me district. The geographical coordinates according to VN2000 of the protected area are from 22°38'59" to 22°45'47"N, and from 105°07'40" to 105°16'35"E.

The limestone karst area in Bac Me Nature Reserve is the distribution of rare flora species such as *Dacrycarpus imbricatus*, *Podocarpus neriifolius* (Phan *et al.* 2007). According to Vu Anh Tai (2014), 2,890 species of plants have been recorded in Ha Giang province. Of which, 157 species were listed in the Vietnam Red Book 2007 and 137 species in the IUCN Red List.

In the planning report of the Department of Agriculture and Rural Development of Ha Giang Province (DARD Ha Giang, 2016), the types of natural vegetation here include:

- a) Closed tropical evergreen rain forest $\leq 700\text{m}$
- b) Tropical evergreen closed forest on limestone $\leq 700\text{m}$
- c) Closed sub-tropical evergreen rain forests on low mountains $\geq 700\text{m}$
- d) Subtropical evergreen closed forest on limestone $\geq 700\text{m}$
- e) Secondary recovered on deforested land
- f) Rehabilitated soil forest on limestone
- g) The secondary of bamboo and mixed wood – bamboo forest
- h) Grass, shrubs and scattered trees vegetation

According to the DARD Ha Giang (2016), 626 higher plant species were recorded for the Natural Reserve ([Table 1](#))

Table 1. Total number of higher plant species were recorded by DARD Ha Giang (2016)

No.	Clade	No. of family	No. of genera	No. of species
1	Lycopodiophyta	2	2	5
2	Esquisetophyta	1	1	1
3	Polypodiophyta	17	31	51
4	Pinophyta	6	6	8
5	Magnoliophyta	115	348	561
-	<i>Magnoliopsida</i>	97	288	443
-	<i>Liliopsida</i>	18	60	118
Total		141	388	626

However, scientific publications on the flora of Bac Me are still very few, while there have been those of neighboring areas such as the flora of Phong Quang Nature Reserve (Hoang *et al.* 2012), orchid species in Bat Dai Son Nature Reserve (Pham *et al.* 2007), endangered plant species in Dong Van Plateau or Ha Giang province (Nguyen *et al.* 2009, Tai & Thin 2014), or the diversity of conifers and flora of Ha Giang province (Nguyen *et al.* 2007a, b, c).

Pressure on plant diversity and conservation in Bac Me Nature Reserve includes illegal logging and collecting non-timber forest products, and land clearing for agricultural production in the buffer zone.

2.2.3. Phia Oac-Phia Den NP, Cao Bang Province

Phia Oac - Phia Den National Park was established under Decision No. 57/QĐ-TTg of the Prime Minister, signed on January 11, 2018. The special mission is the conservation of 90 threatened plant species. Phia Oac - Phia Den National Park has a total natural area of 10,593.5 hectares in 5 communes, Thanh Cong, Quang Thanh, Phan Thanh, Hung Dao, and Tinh Tuc town of Nguyen Binh district, Cao Bang province.

According to Tran *et al.* (2014), there were 33 plant species identified as endangered in the National Park, of which 8 species are on the IUCN Red List 2011 and 16 species are listed in Decree 32/2006/ND-CP dated 30/06/2006. Among them were some conservation priority species such as *Xanthocypris vietnamensis*, *Paphiopedilum emersonii*, *Exentrodendron tonkinensis*, and *Anoectochilus setaceus*. Of the total 9 species of gymnosperm recorded for Cao Bang, only two species, *Podocarpus neriifolius*, and *Amentotaxus argotaenia* were recorded for the national park, while 7 other species were distributed in the other karst areas. (Phan *et al.* 2007). Our field studies done here so far show that at least 278 species have been recorded in this area. Synthesizing all studies, flora Phia Oac has listed 1197 species belonging to 677 genera, and 177 families of 5 Clades higher vascular flora (Le *et al.* 2012). According to the Cao Bang Department of Agriculture and Rural Development (DARD Cao Bang, 2015), the flora of Phia Oac - Phia Den National Park consists of 1123 species belonging to 199 families, of which 70 species are listed in the 2007 Vietnam Red Book as showed in **Table 2** ~~Table-2~~:

Table 2. Total number of plant species were recorded by DARD Cao Bang (2015)

Vietnamese name	Scientific name	Number
Ngành khuyết lá thông	Psilotophyta	1
Ngành thông đất	Licopodiophyta	6
Ngành mộc tặc	Equisetophyta	1
Ngành Dương xỉ	Polypodiophyta	131
Ngành hạt trần	Pinophyta	10
Ngành ngọc lan	Magnoliophyta	974

There is little knowledge about the flora of the NP which may contain many undiscovered plant species. For example, a new species of *Oreocharis caobangensis* was recently published for science in this area (Van Do *et al.* 2017). However, conservation activities here also face many difficulties such as mineral extraction, and forestry agriculture.

2.2.4. Nam Xuan Lac SHCA, Bac Kan Province

Nam Xuan Lac SHCA was approved by the People's Committee of Bac Kan province in Decision No. 342/QĐ-UB dated March 17, 2004, with a total natural area of 1,788 hectares,

located on the two Na Da and Ban Khang villages, Xuan Lac commune, Cho Don district, Bac Kan province.

Recent studies in the SHCA have identified 512 plant species belonging to 352 genera, 115 families, and 4 phyla as follows: Lycopodiophyta, Polypodiophyta, Pinophyta, and Magnoliophyta (Nguyen *et al.* 2011). Of these, 30 species of threatened plants were listed in the Vietnam Red Book 2007 (Nguyen *et al.* 2011). Although this area is small, it also contains high values of biodiversity. In previous field investigations and reports, many rare and rare species of orchids and conifers have been recorded (Phan *et al.* 2013). In 2017, a new species, *Ardisia phankelociana* was described in this area (Hu *et al.* 2017). The medicinal plant species in Nam Xuan Lac SHCA are diverse and abundant. According to one report, 458 species of medicinal plants, belonging to 345 genera, and 132 families of four phyla have been recorded (Nguyen 2014).

Even so, the botanical studies in this area are still scanty. Research on conservation status and threats to endangered plant species in this area should be conducted. To do this, the research method that can be used according to Hoang has been used in the vicinity of Ba Be National Park (2010).

2.3 Materials and methods

Give a clear description of materials, or subjects, including dates and locations (e.g., name of the study area/sites, physical and biological features, latitude and longitude, map, etc.) of field surveys and laboratory works, etc., together with the methods applied.

2.3.1. Study time and sites

The project was conducted for three years from 01 October 2018 to 30 September 2021 in Cham Chu NR – Tuyen Quang Province, Bac Me NR – Ha Giang Province, Phia Oac – Phia Den NP – Cao Bang Province, and Nam Xuan Lac SHCA – Bac Kan Province (Fig. 1-4). The final report was written from October to December 2021.

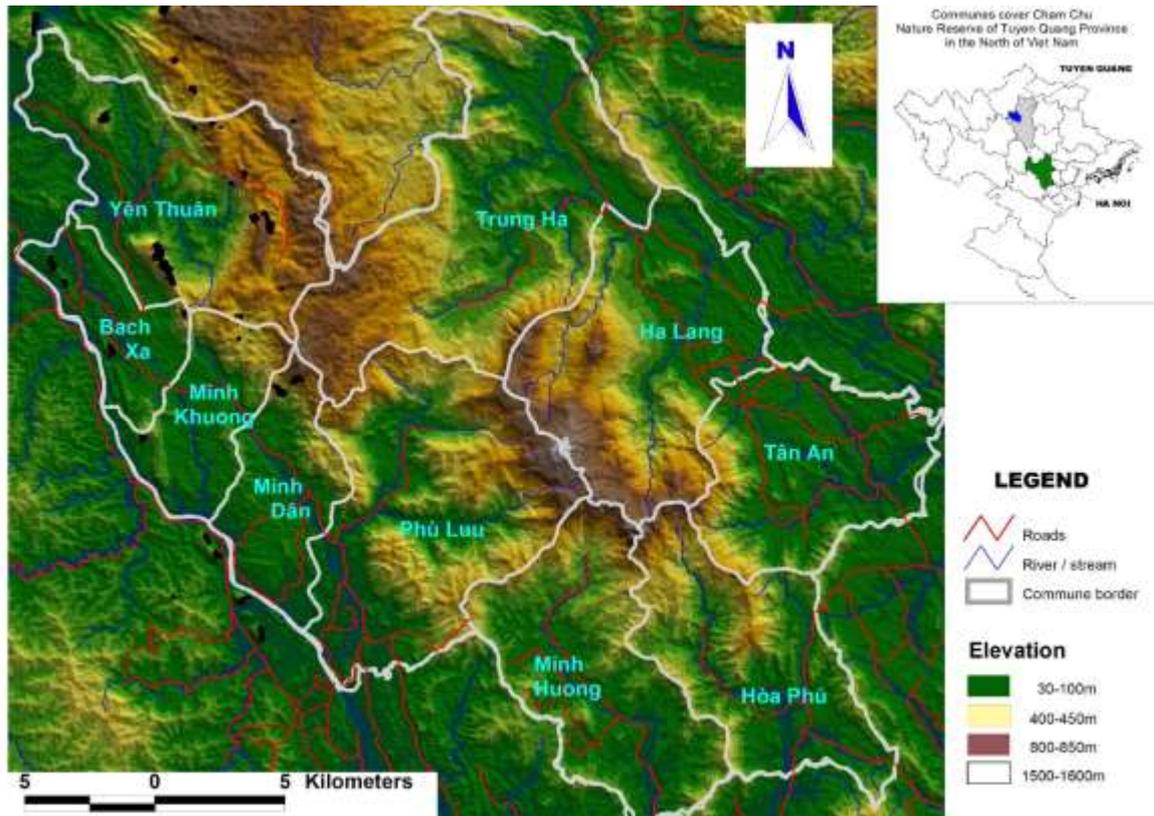


Figure 1. The map of Cham Chu NR in Tuyen Quang Province (provided by GIS Group)

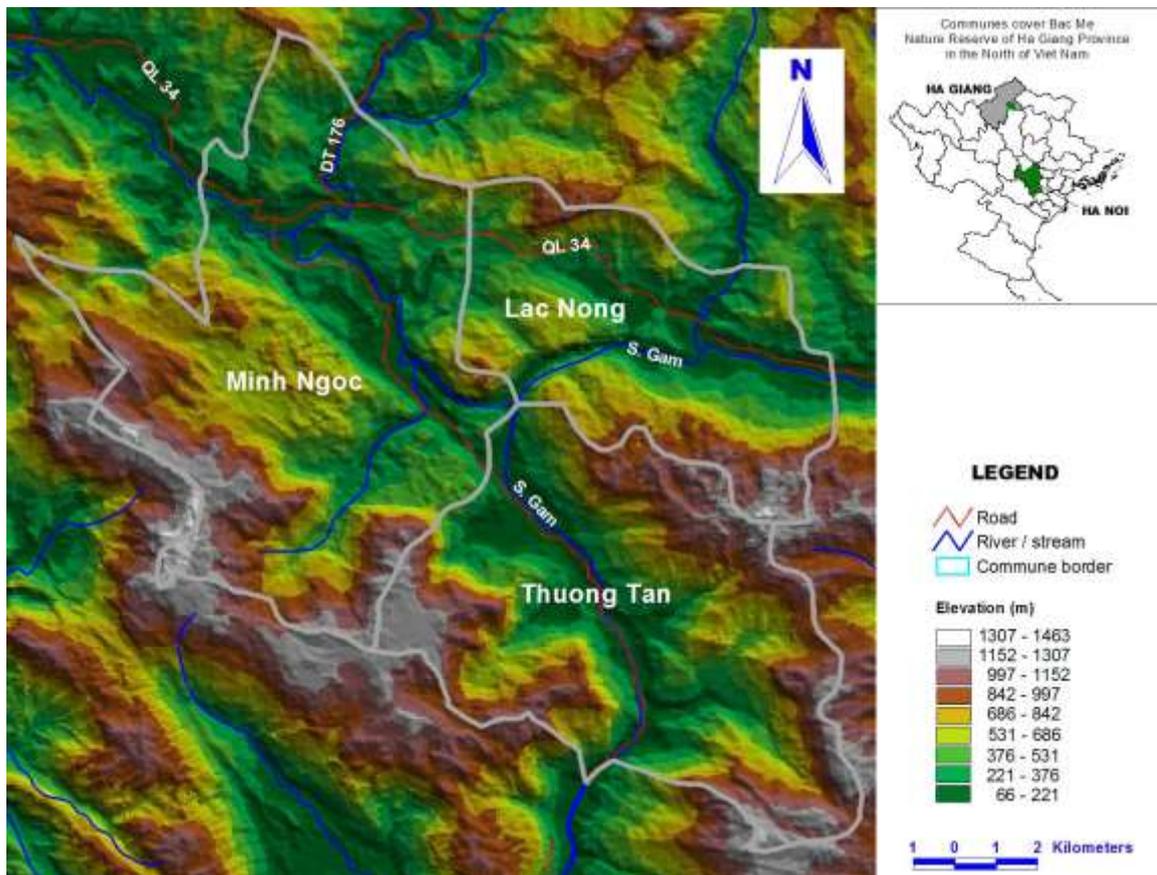


Figure 2. The map of Bac Me NR in Ha Giang Province (provided by GIS Group)

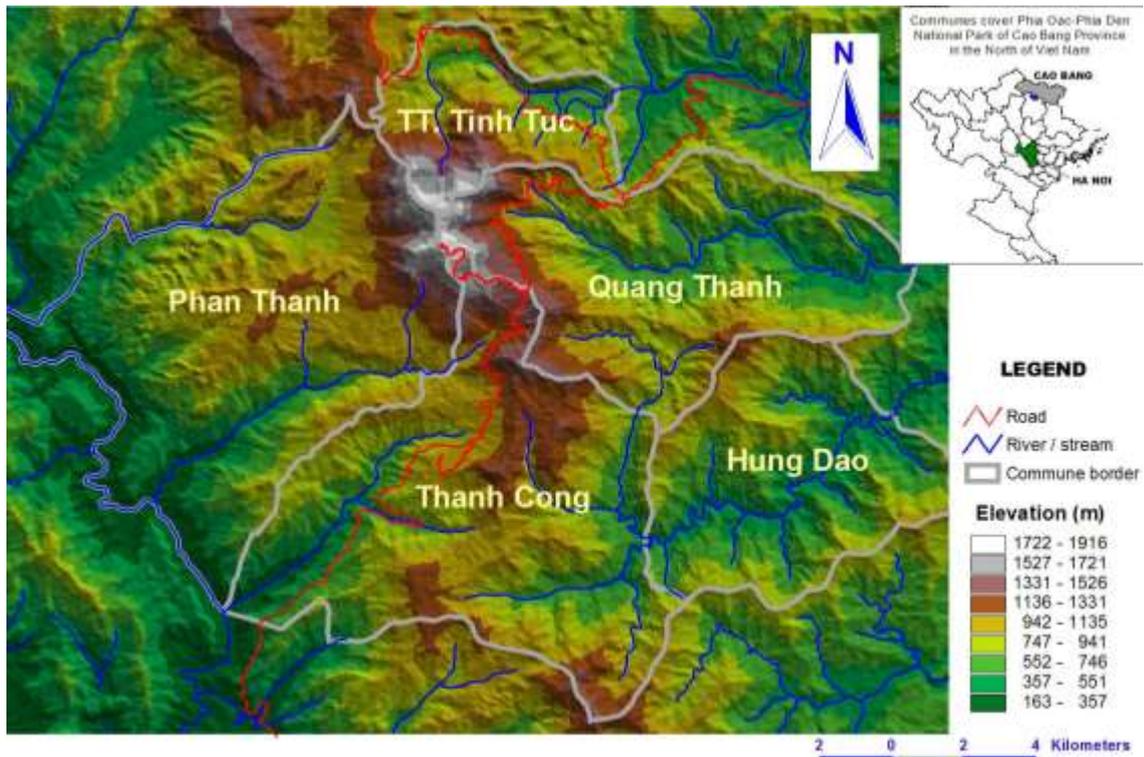


Figure 3. The map of Phia Oac - Phia Den NP in Cao Bang Province(provided by GIS Group)

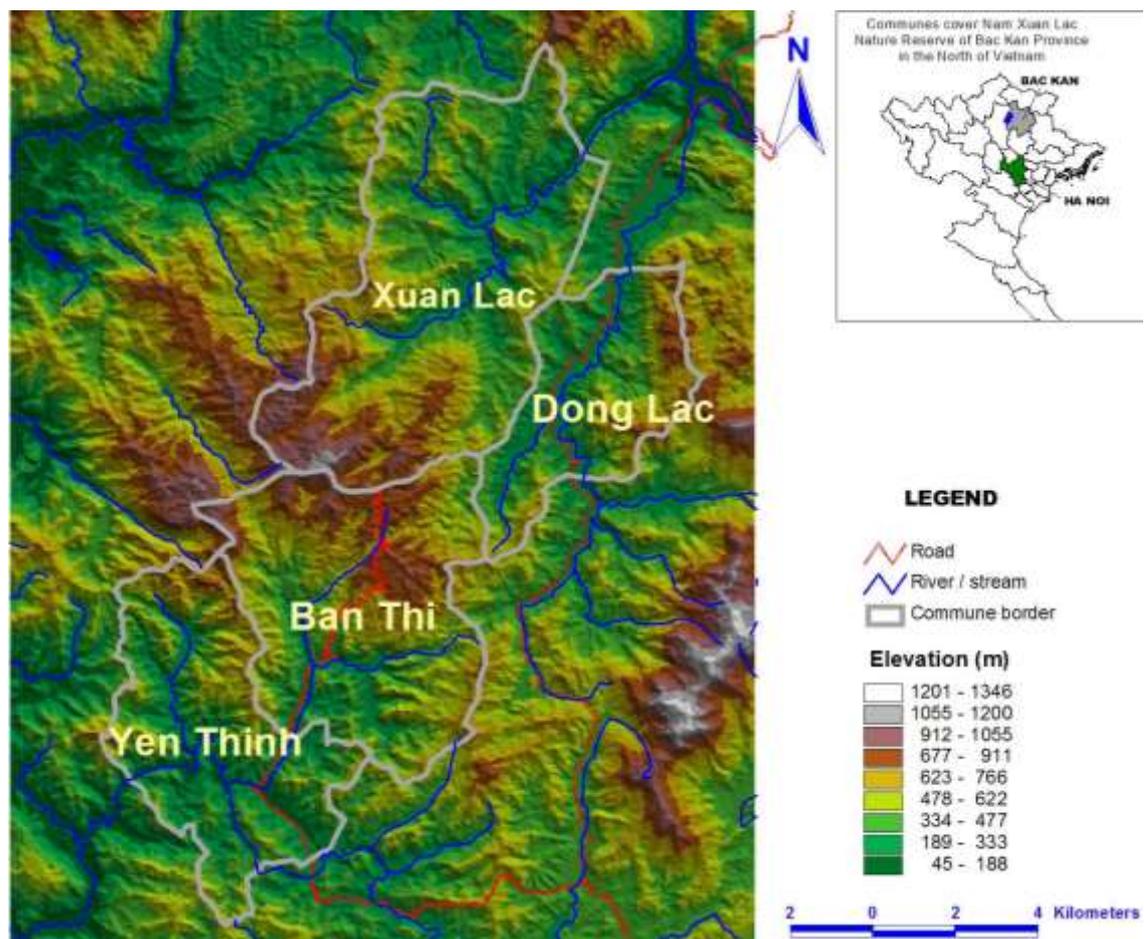


Figure 4. The map of Nam Xuan Lac SHCA in Bac Can Province (provided by GIS Group)

2.3.2. Line transects survey design

Vegetation types for the study area were preliminary identified based on provided map of the Nature Reserve Management Departments. Each habitat was surveyed at least once, by transects of at least 500m long following existing survey tracks following Loya (1978) and Buckland *et al.* (2007). A total of eighth field surveys were conducted during three years study (Annex 1). Photographs were taken and specimens were collected if required for later identification ([Figure 10](#)~~Figure-10~~). The detail of line transect surveys were shown in Figures 5-9.



Figure 5. Lines transect survey in Cham Chu NR

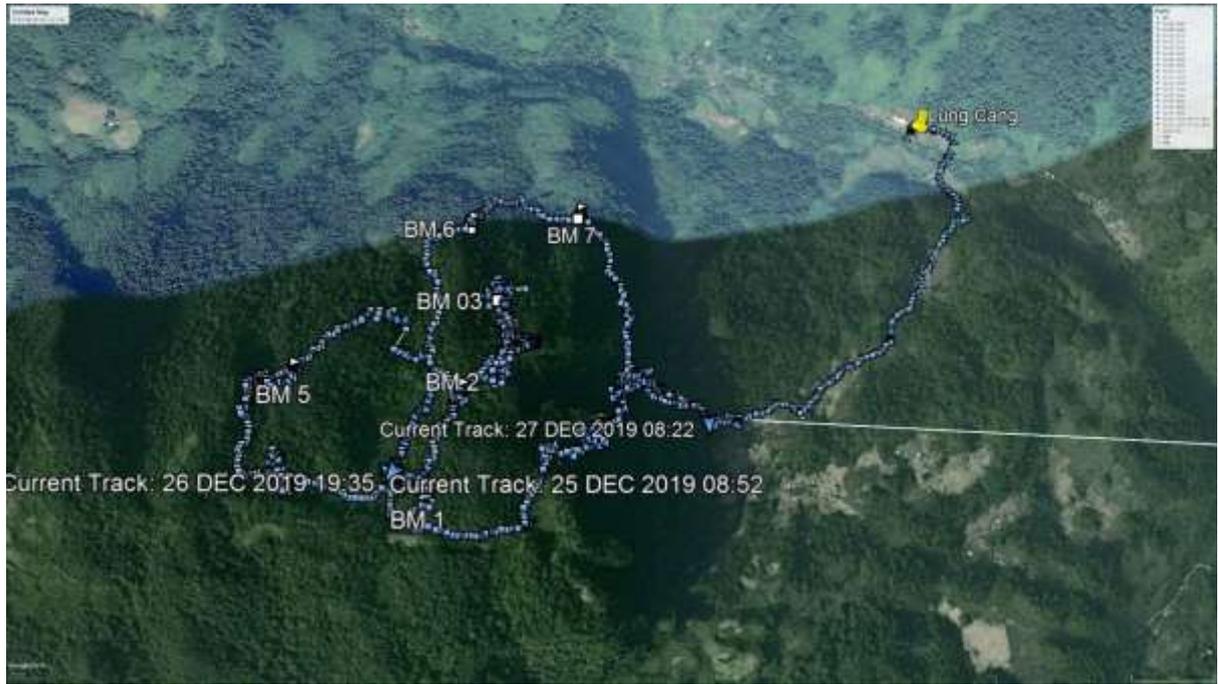


Figure 6. The line transects and plots studied in Bac Me NR

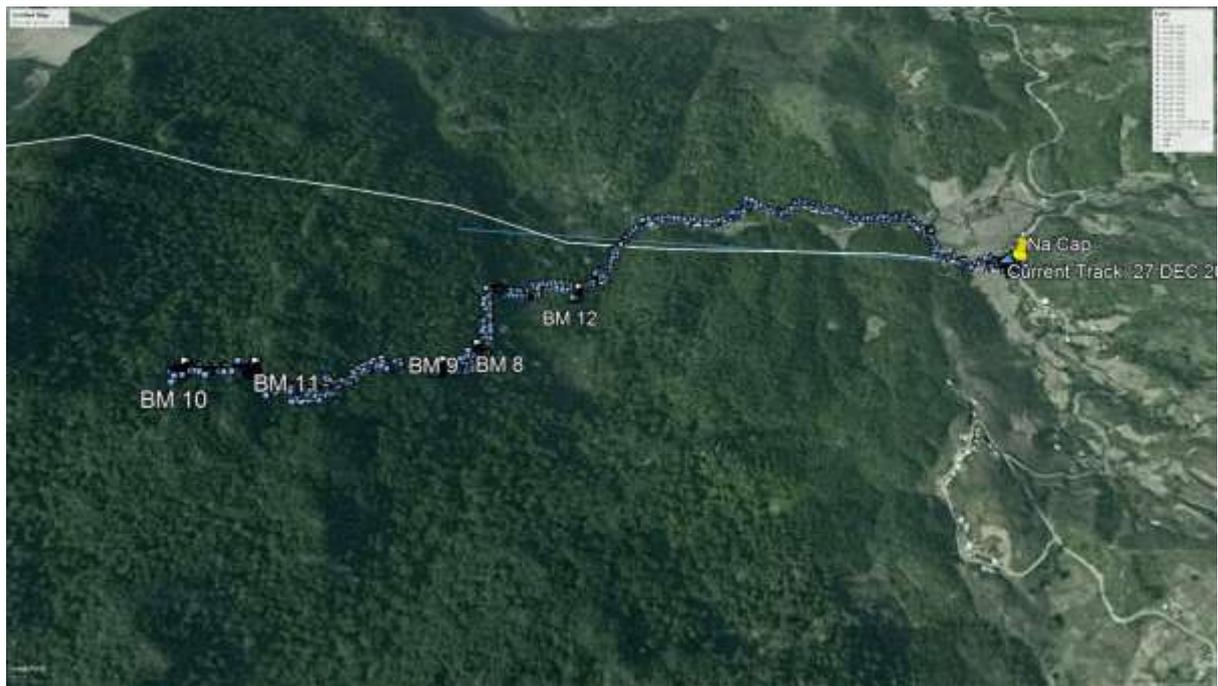


Figure 7. The line transects and plots studied in Bac Me NR



Figure 8. The line transects and plots studied in Phia Oac - Phia Den NP

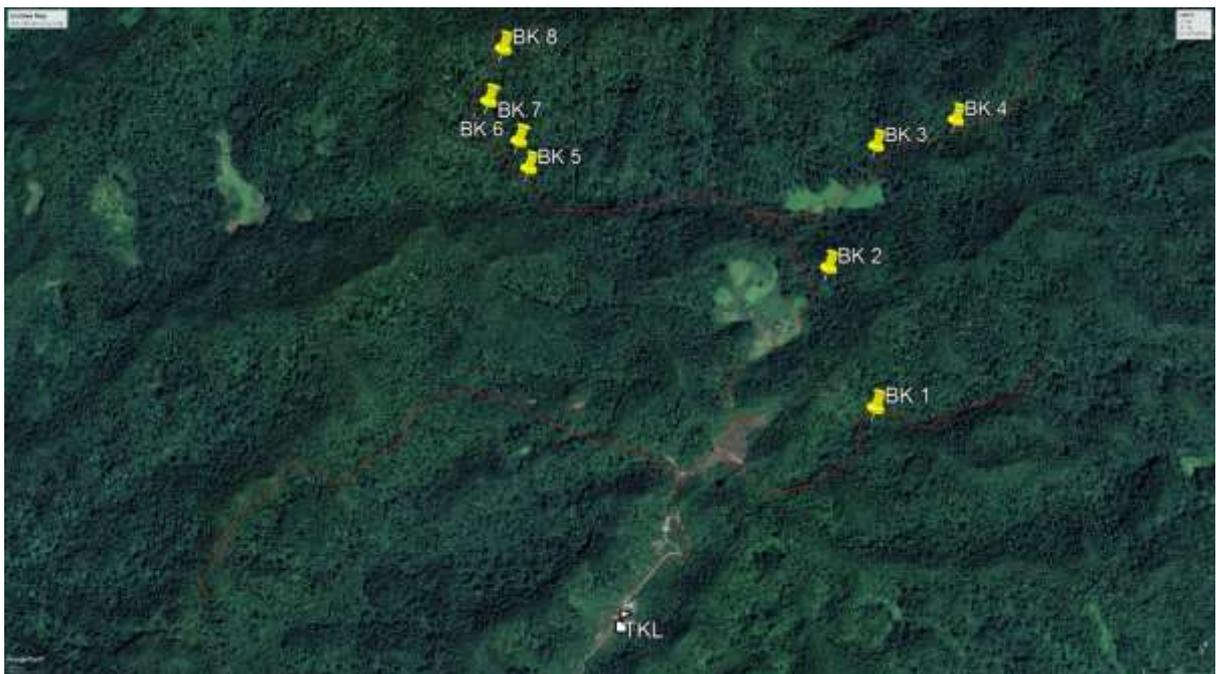


Figure 9. The line transects and plots studied in Nam Xuan Lac SHCA

2.3.3. Plots survey design

Eight field trips were carried out at elevation range 331–1,914 m a.s.l. from 2018 to 2021. Because of stiff mountains, vertical line transects surveys were established along to trail to the top. A total of fifty-four plots (10 × 10 m) were made along line transects survey, of which, eight plots in Nam Xuan Lac SHCA were arranged at elevation of 717 – 1,067 m a.s.l., 11 plots in Cham Chu NR were set at elevation of 645 – 1,116 m a.s.l., 16 plots in Phia Oac - Phia Den NP were arranged at elevation of 1,145 – 1,914 m a.s.l., and 19 plots in Bac Me NR were arranged at elevation of

331 – 1,204 m a.s.l. The size of the plot has been used in several investigations of plant diversity (Cottam and Curtis 1956; Lu et al. 2004; Shrestha and Vetaas 2009; Manish et al. 2016). The distance between plots is at least 500 m, and the elevation distance is 100 m. In each plot, all species and individuals of the vascular plants were measured after subdividing them into four subplots just to make it easy to count. Herbarium samples were collected at least one for each for future record and documentation. All species that occurred inside the plot were identified in the field with the help of the local people as well as the author's identification knowledge. Later, confirmed identification was made in the Vietnamese Academy of Forest Science (VAFS herbarium, consultation with experts (Annex 2, Figures 5-9, [Figure 11](#)~~Figure 14~~).

PLANT SPECIES ON LINE TRANSECT							
Transect no.:			Location:				
Starting coordinates: X:		Y:		Elevation:			
Ending coordinates: X:		Y:		Elevation:			
Date:			Sheet no.:		Investigator:		
No	Common name	Local name	Coordinates		Plant form	Use	Note
			X	Y			

Figure 10. The recording form for each plant species in line transect survey

PLANT SPECIES IN PLOT						
<i>Table 1.1: Tree (C1.3 >31.5cm; Hvn >5m)</i>						
Plot no.:		Slope:		Canopy:		
Coordinates:		Map plot no.:		Direction:		
Forest status:		Map plot no.:		Date:		
Vegetation type:		Location:				
No	Species name	C 1.3	Hvn (m)	Phenology	Use	Note

PLANT SPECIES IN PLOT						
<i>Table 1.2: Shrub</i>						
Plot no.:		Slope:		Canopy:		
Coordinates:		Map plot no.:		Direction:		
Forest status:		Map plot no.:		Date:		
Vegetation type:		Location:				
No	Species name	C 0.5 (cm)	Hvn (m)	Phenology	Use	Note

PLANT SPECIES IN PLOT

Table 1.3: Herbaceous

Plot no.:	Slope:	Canopy:
Coordinates:	Map plot no.:	Direction:
Forest status:	Map plot no.:	Date:
Vegetation type:	Location:	

No	Species name	Quantity	Phenology	Use	Note

Figure 11. The recording forms for each plant species in the plot survey

2.3.4. Plant species identification

Collection and fixing specimen procedures followed the usual procedures for botanical specimens (Liesner, 1995; Maden, 2004). Plant species were preliminarily identified in the forest and checked in the laboratory through taken photos. Voucher specimens were deposited at the Herbaria of the VNU Hanoi University of Science (HNU), and the Vietnamese Academy of Forest Sciences (VAFS) (acronyms according to Thiers, 2015). Species were identified using some specific literature (such as “Flora of Vietnam” (Pham, 1999, 2000, 2003), “Flora of China” (multiple volumes) to identify plant species; Using “National Red Data Book” (2007), Government Decree No. 06/2019/ND-CP on management regulations of forest precious, rare and endangered species, and “IUCN Redlist” (2018) to determine threatened species; some literature to the identification of endemic, economic or medicine species (Do 2004). The system of plant species classification followed “Angiosperm Phylogeny Group” APG IV (2016). All the scientific names were nomenclature checked according to the Shenzhen code of the International Association for Plant Taxonomy (Turland et al., 2018) together with online consultation from World Flora Online, The Plant List, and International Plant Names Index websites.

2.4 Results and Discussion

2.4.1. Taxa diversity

During the three years of the project, a total of 1769 species of 797 genera in 203 families were recorded from four protected areas (Annex 3, [Table 3](#)~~Table-3~~, [Figure 12](#)~~Figure-12~~). They belong to four phyla including Magnoliophyta, Polypodiophyta, Gnetophyta, and Pinophyta. Most of the plants belong to Magoliophyta with 1638 species in 728 genera and 167 families. The Pinophyta composes 10 species in nine genera and five families.

Table 3. Total species, genera, and families recorded in four protected areas

Phylum	Magnoliophyta	Polypodiophyta	Gnetophyta	Pinophyta	Total
Family	167	30	1	5	203
Genus	728	59	1	9	797
Species	1638	119	2	10	1769

The area with the highest number of plant species is Cham Chu NR with 1,089 species, followed by Bac Me NR with 1037 species, Phia Oac – Phia Den NP with 822 species, and Nam

Xuan Lac SHCA with 774 (Figure 12Figure 12). Ten families with species richest include Lamiaceae with 40 species (2.26 % of the total recorded species), Malvaceae with 40 species (2.26%), Moraceae with 41 species (2.32%), Asteraceae with 42 (2.37%), Lauraceae with 54 species (3.05%), Euphorbiaceae with 64 species (3.62%), Poaceae with 66 species (3.73%), Orchidaceae with 68 species (3.84%), Fabaceae with 70 species (3.96%), and Rubiaceae with 74 (4.18%) (Figure 13Figure 13).

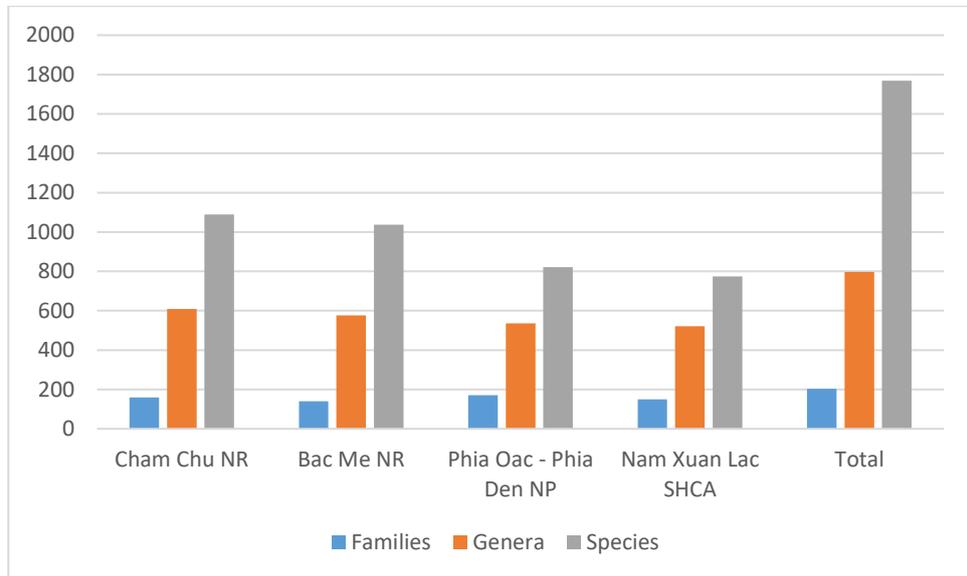


Figure 12. Number of species, genera and families recorded in study areas

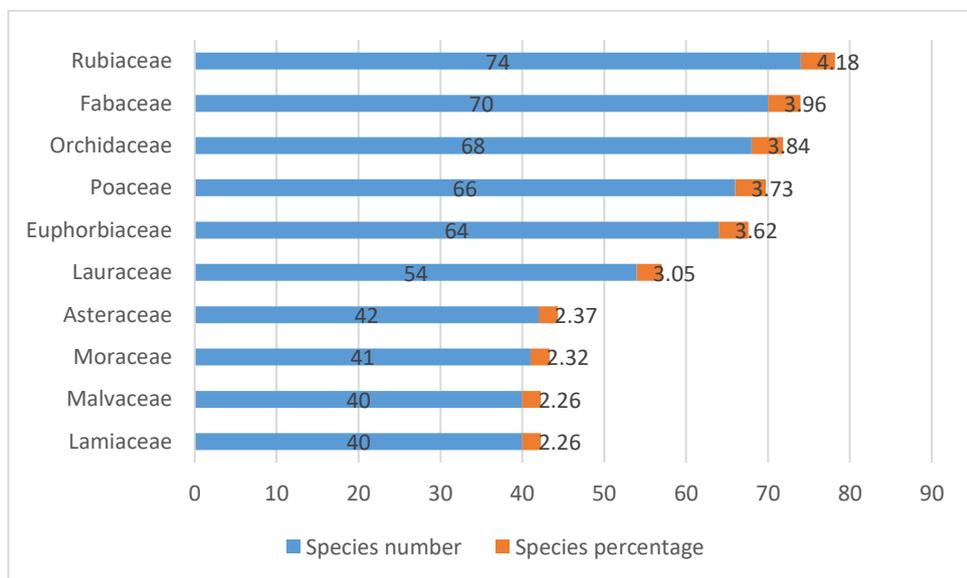


Figure 13. Ten families with species richest in four study areas

Ten genera recorded with species richest in the four study areas include *Hedyotis* with 11 species (0.62% of the total recorded species), *Dioscorea* with 12 species (0.68%), *Litsea* with 12 species (0.68%), *Symplocos* with 12 species (0.68%), *Begonia* with 13 species (0.73%), *Lithocarpus* with 14 species (0.79%), *Rubus* with 14 species (0.79), *Syzygium* with 15 species (0.85%), *Magnolia* with 16 species (0.90%), and *Ficus* with 29 species (1.64%) (Figure 14Figure 14).

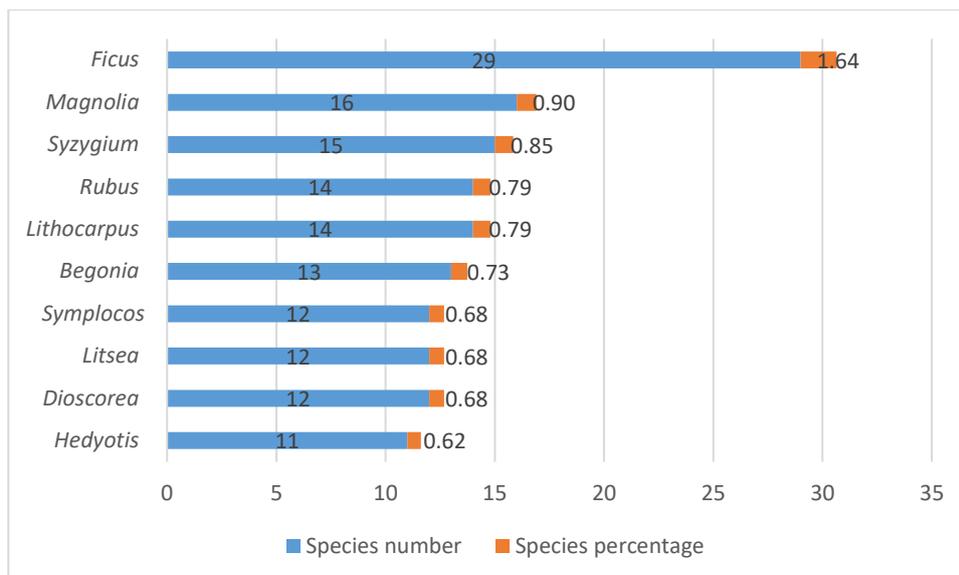


Figure 14. Ten genera with species richest in four study areas

2.4.1.1. Cham Chu Nature Reserve

A total of 1089 species of vascular plant belonging to 608 genera, 159 families, and four phyla have been recorded in the Cham Chu NR (Annex 3). The most species-rich phylum is Angiospermae with 995 recorded species (92.56% of the total obtained species). Following this, Polypodiophyta is represented by 84 species (7.71% of the total species) in 43 genera and 23 families, Pinophyta contains 8 species (0.92% of the total species), and Pinophyta composes 2 species (0.09% of the total) (Table 4).

Table 4. Species, genus, family number, and diverse percentage by phylum in the Cham Chu NR

Phylum	Family		Genus		Species	
	Number	%	Number	%	Number	%
Polypodiophyta	23	14.47	43	7.07	84	7.71
Gnetophyta	1	0.63	1	0.16	2	0.09
Pinophyta	5	3.14	8	1.32	8	0.92
Magnoliophyta	130	81.76	556	91.45	995	92.56
Total	159	100.00	608	100.00	1089	100.00

The top 10 species-richest families recorded represents 33.52% of the total species obtained. They are Fabaceae (5.05% species of the total species), Rubiaceae (4.78%), Euphorbiaceae (4.59%), Lauraceae (3.49%), Moraceae (2.94%), Asteraceae (2.75%), Poaceae (2.66%), Malvaceae (2.57%), Lamiaceae (2.39%) and Orchidaceae (2.3%) (Figure 15).

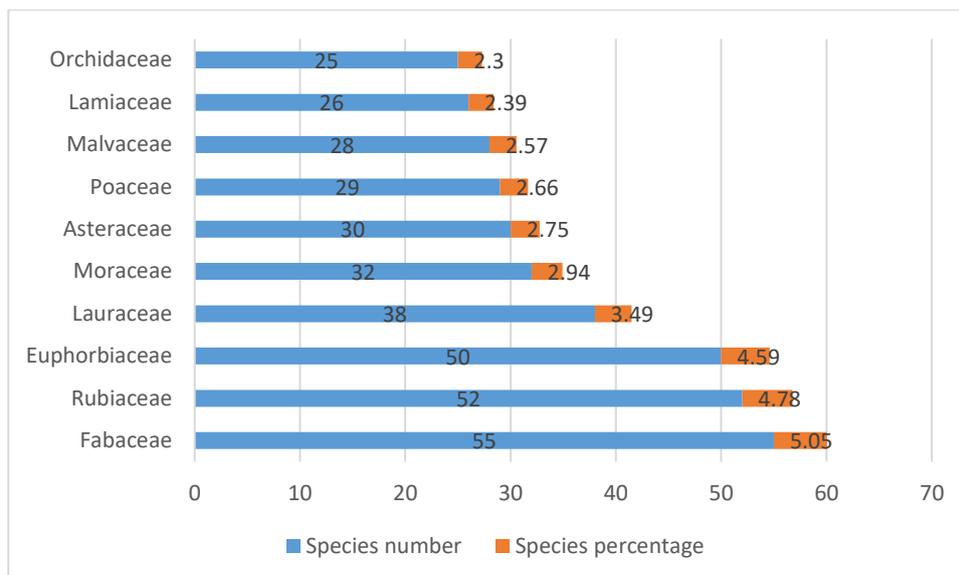


Figure 15. The most 10 species-richest families recorded in the Cham Chu NR

This 1089 recorded species represents 10.52% of the total number of 10350 Vietnamese vascular plant species, 26.95% of the total number of 2256 Vietnamese genera, and 52.13% of the total number of 305 Vietnamese families (Phan, 1998; Averyanov et al., 2003).

2.4.1.2. Bac Me Nature Reserve

Through two field surveys in July and December 2019, the flora of Bac Me NR has recognized about 1037 species of 576 genera of 140 families. Of which, there are 1023 angiosperms, ten gymnosperms, and four ferns (Annex 3). There are eight conifers, nine magnolias, and 39 orchids species distributed in the NR.

Ten families with the species richest compose a total of 375 species (36.16%). The highest species richness is Fabaceae with 55 species (5.3%), followed by Euphorbiaceae with 51 species (4.92%), Rubiaceae with 47 species (4.53%), Orchidaceae with 39 species (3.76%), Lauraceae with 37 species (3.57%), Moraceae with 32 species (3.09%), Poaceae and Asteraceae with equal 30 species (2.89% of each), Asteraceae with 30 species (2.89%), Malvaceae with 28 species (2.7), and Lamiaceae with 26 species (2.51%) (**Figure 16**).

Fourteen genera with species richest compose a total of 111 species (10.74%). The most genera are Ficus with 21 species (2.03%), Litsea with 9 species (0.87%), Begonia and Bauhinia with equal 8 species (0.77% of each), five genera Dendrobium, Elastostema, Diospyros, Magnolia, and Dioscorea with equal 7 species (0.68% of each), five genera Polygonum, Hedyotis, Rubus, Syzygium, and Symplocos with equal 6 species (0.58% of each) (**Figure 17**).

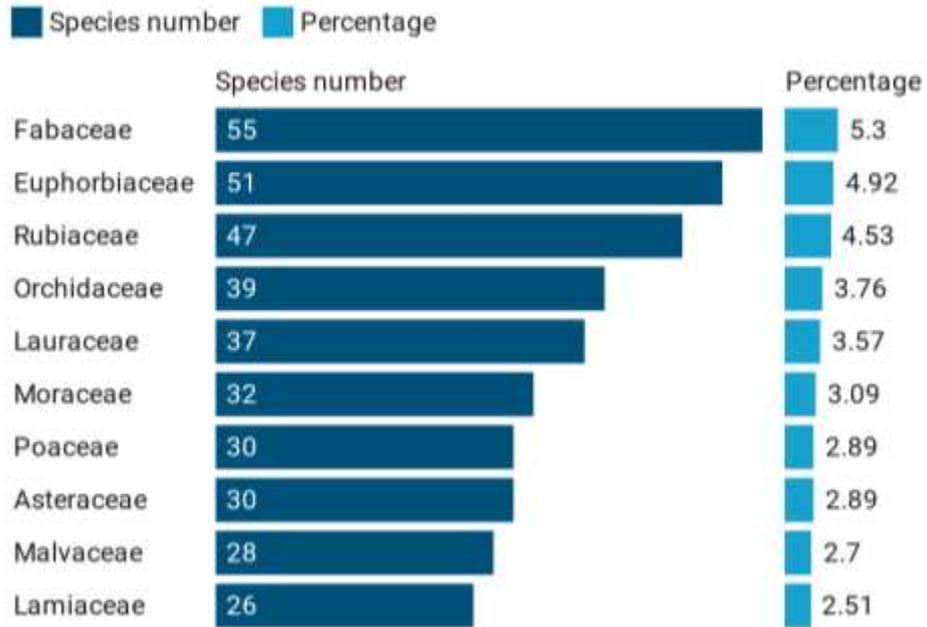


Figure 16. Ten families with species richest at Bac Me NR

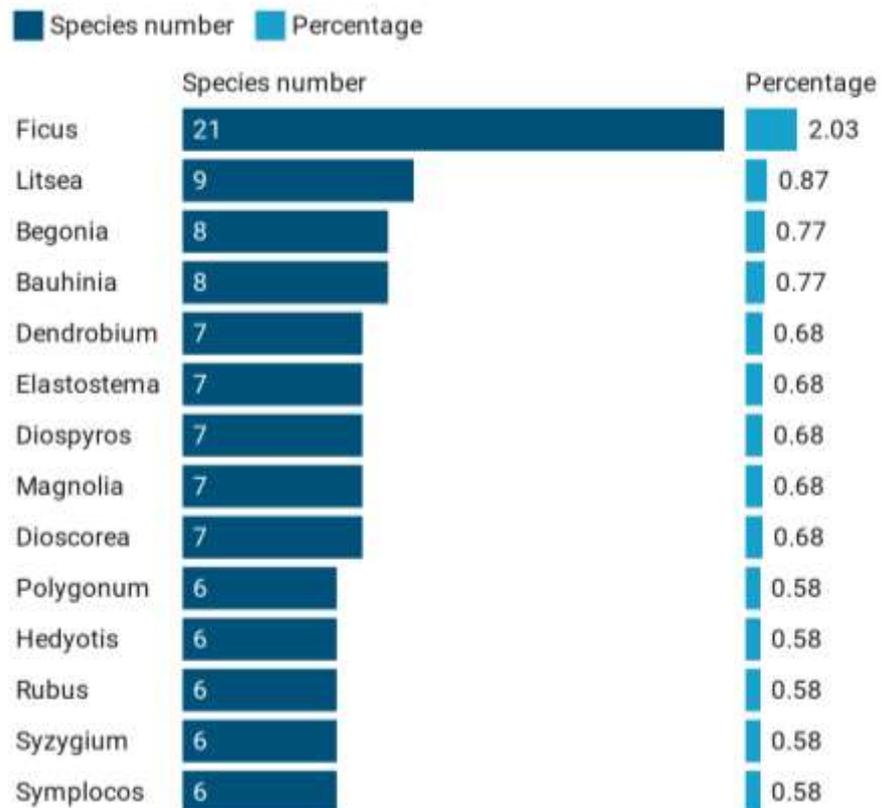


Figure 17. Fourteen genera with species richest at Bac Me NR

This 1037 recorded species represents 10.02% of the total number of 10350 vascular plant species in Vietnam; 576 genera represent 25.53% of the total number of 2256 genera in Vietnam; and 140 families represent 40% of the total number of 305 families in Vietnamese (Phan, 1998;

Averyanov et al., 2003). In the comparison with the whole flora of Ha Giang, the result shows 35.88% of the total number of 2890 vascular species, 51.57% of the total number of 1117 genera, and 73.88% of the total number of 190 families known to occur in Ha Giang province (Vu, 2014). According to a recent report by DARD Ha Giang (2016), our results are much higher in species, and genera numbers. This report has presented 165.65 % in the total of 626 previous recorded species, 148.45% in the total 388 genera, and 99.29% in the total 141 families (**Figure 18**).

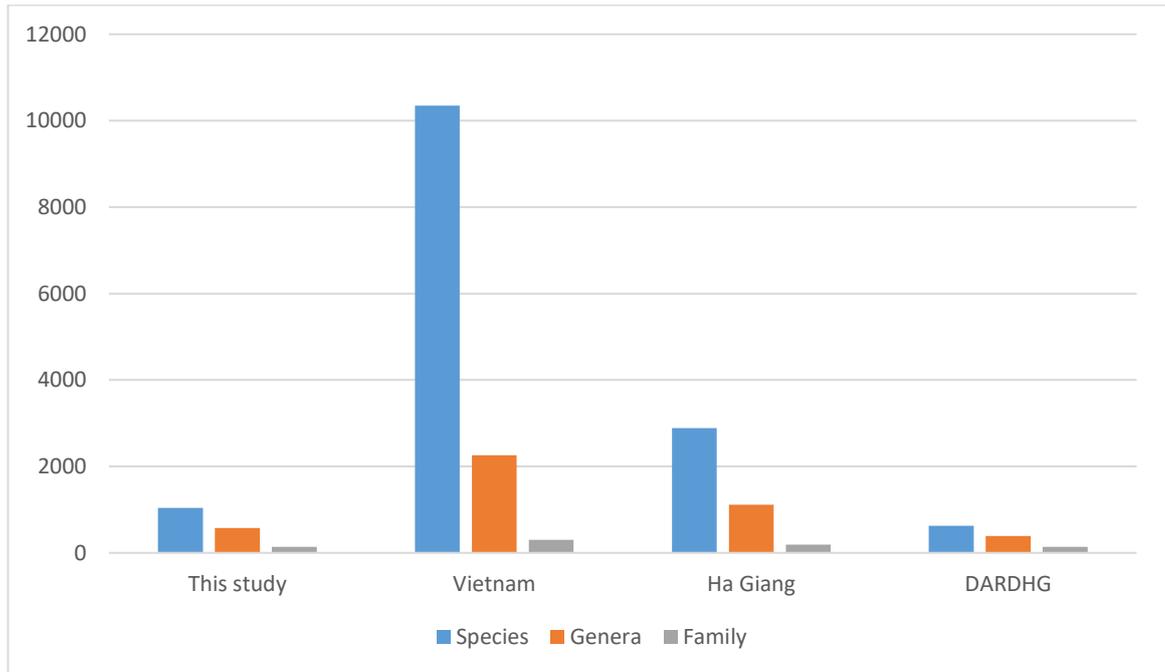


Figure 18. Number of recorded species, genera, and families of Bac Me NR relative to another reference

There were six conifer species recorded for the NR including *Cupressus vietnamensis*, *Calocedrus rupestris* (Cupressaceae), *Pinus fenzeliana* (Pinaceae), *Dacrycarpus imbricatus*, *Nageia fleuryi*, *Podocarpus neriifolius* (Podocarpaceae). This result is higher than the report of Phan et al. (2007) which recorded only two species including *Dacrycarpus imbricatus*, and *Podocarpus neriifolius*. This report also presents a half number of the total Ha Giang conifer species (Farjon et al. 2002, Nguyen et al. 2007a).

In the 38 orchid species found in the NR, three Slipper Orchids including *Paphiopedilum helenae*, *P. hirsutissimum*, *P. malipoense* were recorded. These species are always hunted by Orchid collectors. In addition, a new species, *Begonia bacmeensis* V.T.Pham & C.W.Lin (Pham et al. 2019), and a newly recorded species, *Hoya vangviengiensis* Rodda & Simonsson were described from the limestone forest of Bac Me NR.

In the aspect of plant form diversity, the herbaceous species contribute a very high number of total species in the flora. As result, the herbaceous presents 32.5%, which high percentage that is typical in forest ecosystems (Whigham, 2004; Gilliam, 2007). The highest percentage of species are trees which contribute 37.51% of the total recorded species. Woody trees play a very important role in the movements and diet of wild animals (Nadler et al. 2003).

2.4.1.3. Phia Oac – Phia Den National Park

A total of 822 species belonging to 535 genera of 171 families were recorded in Phia Oac – Phia Den NP. Of which, there are 57 Polypodiophyta, one species of Pinophyta, one species of Gnetophyta, and 763 species of Magnoliophyta (Annex 3).

Ten species-richest families compose a total of 267 species (equal to 32.48%). The highest species richness family is Poaceae with 39 species (4.74%), followed by Euphorbiaceae with 34 species (4.14%), Rubiaceae with 32 species (3.89%), Rosaceae and Lauraceae with equal 29 species (3.53% of each), Lauraceae with 29 species (3.53%), Fabaceae with 27 species (3.28%), Asteraceae with 21 species (2.55%), Orchidaceae and Lamiaceae equal with 19 species (2.31% of each) and Moraceae with 18 species (2.19%) (**Figure 19**).

Ten species-richest genera compose a total of 76 species (equal to 9.25%). The highest species richness genus *Ficus* with 11 species (equal to 1.34%), followed by *Symplocos* and *Rubus* with equal 10 species (1.22% of each), *Lithocarpus* with eight species (0.97%), *Hedyotis* with seven species (0.85%), five genera including *Cyperus*, *Magnolia*, *Prunus*, *Rhododendron*, and *Solanum* with equal six species (0.73% of each) (**Figure 20**).

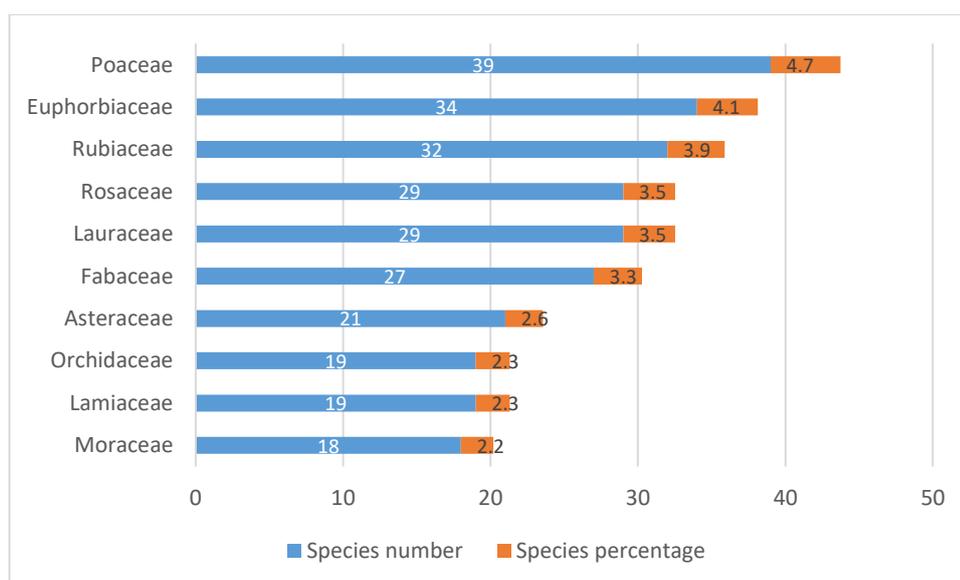


Figure 19. Ten species richest families in Phia Oac - Phia Den NP

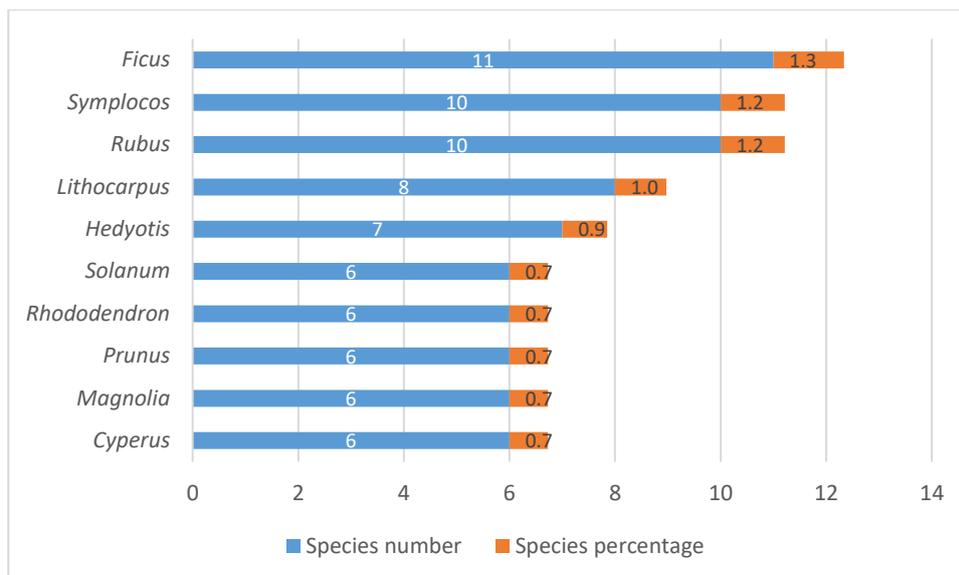


Figure 20. Ten species richest genera in Phia Oac - Phia Den NP

According to previous studies, total plant species were recorded in Phia Oac – Phia Den NP nearly 1200 species belonging to around 677 genera, and 177 to 199 families (Le *et al.* 2012, DARD Cao Bang 2015). This study is much smaller in species and genera number and is more or less similar in family number (**Figure 21**). With a record of 822 species, 535 genera, and 171 families, the results represent 74.18% species, 78.91% genera, and 85.93% families when compare with the most recent report by DARD Cao Bang 2015.

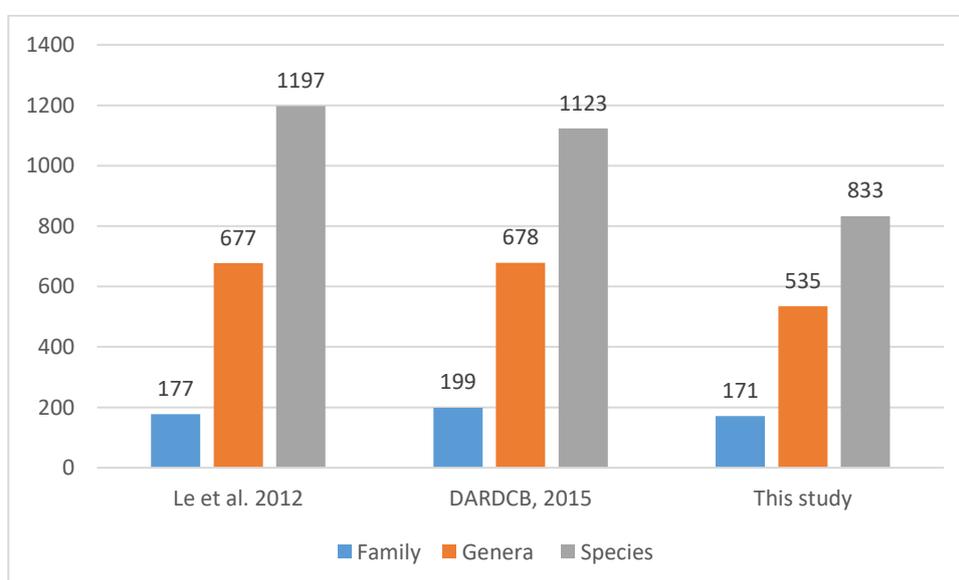


Figure 21. Number of recorded species, genera, and families of Phia Oac – Phia Den compared with previous studies

According to DARDCB 2015, there were five Gymnospermae families including Cycadaceae, Pinaceae, Podocarpaceae, and Taxaceae with 10 species, but this study only records one species of Podocarpaceae (*Podocarpus neriifosius*) and one species of Gnetaceae (*Gnetum montanum*). The field surveys also found eight species of Magnoliaceae, similar to previous

reports. The results of this study showed that 19 species of Orchidaceae were found, whereas DARDCB 2015 recorded 34 species. Some rare Orchid species were not found in the study area such as *Cymbidium giganteum*, *Dendrobium fimbriatum*, *D. crepidatum*, and *D. lindleyi*. These results may depend on our limited field survey study time or on some species that have disappeared in the National Park.

On the other hand, this study found two new record species for the flora of Vietnam, *Aristolochia austroyunnanensis* S.M.Hwang (Aristolochiaceae) and *Cynanchum officinale* (Hemsl.) Tsiang & H.T.Zhang (Apocynaceae) (Annex 5).

2.4.1.4. Nam Xuan Lac Species and Habitat Conservation Area

A total of 774 species belonging to 521 genera of 150 families were recorded in Nam Xuan Lac SHCA. Among them, there are one species of Psilotophyta, two species of Lycopodiophyta, 32 species of Polypodiophyta, five species of Gymnospermae, and 734 species of Magnoliophyta (Figures 22-24, Annex 3).

Ten species-richest families compose a total of 272 species (equal to 35.15%). The highest species richness family is Rubiaceae with 38 species (4.91%), followed by Euphorbiaceae with 35 species (4.52%), Fabaceae with 31 species (4.01%), Orchidaceae with 30 species (3.88%), Moraceae with 29 species (3.75%), Poaceae with 24 species (3.1%), Malvaceae with 23 species (2.97%), Asteraceae and Lauraceae equal with 22 species (2.84% of each) and Urticaceae with 18 species (2.33%) (Figure 25 Figure 25).

Eight species-richest genera compose a total of 60 species (equal to 7.77%). The highest species richness genus is *Ficus* with 21 species (equal to 2.71%), followed by *Syzygium* with 8 species (1.03 %), *Schefflera* with 6 species (0.78 %), five genera including *Dendrobium*, *Dioscorea*, *Hedyotis*, *Litsea*, *Diospyros* with equal five species (0.65% of each) (Figure 26 Figure 26).

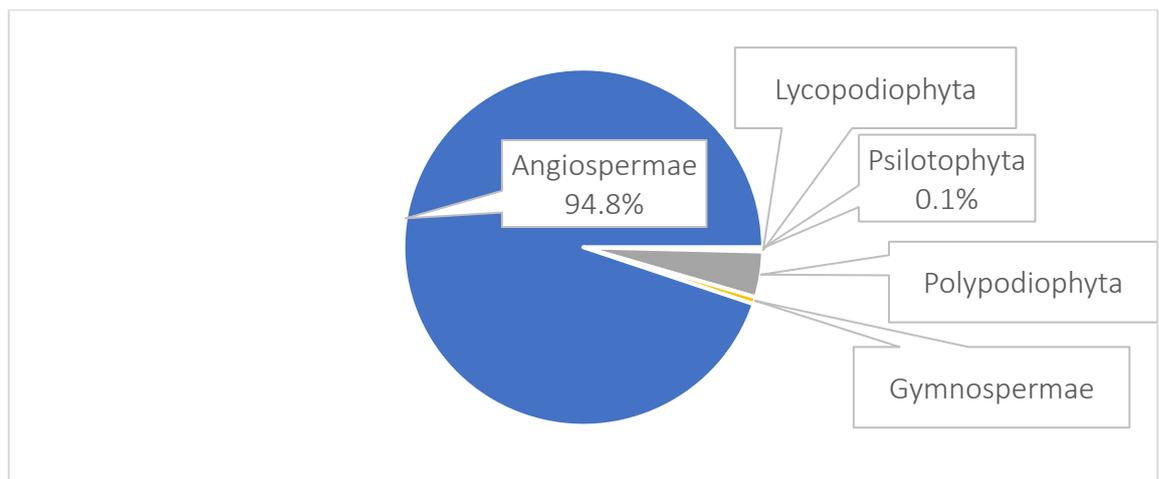


Figure 22. Species number by percentage among phylum

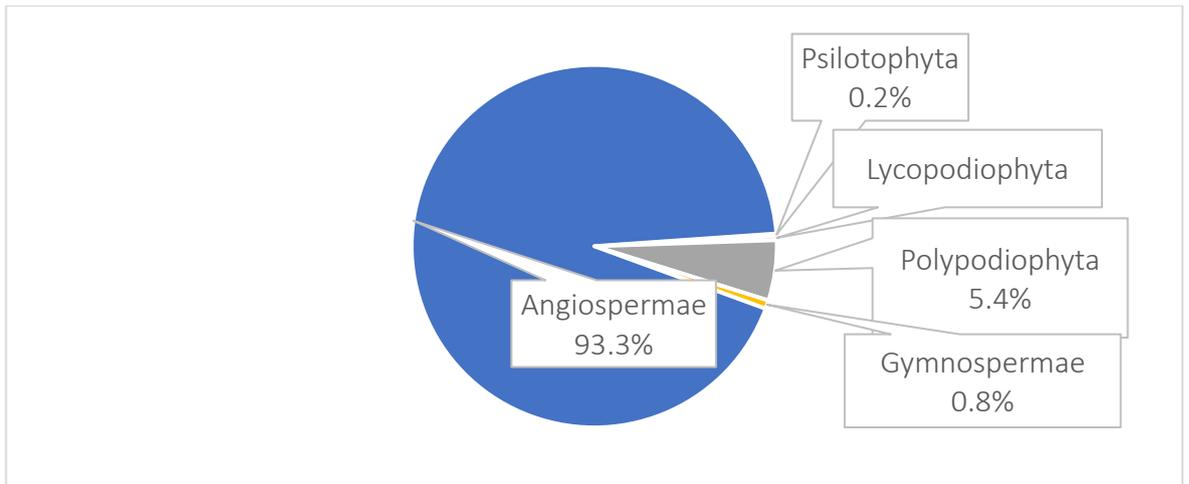


Figure 23. Genera number by percentage among phylum

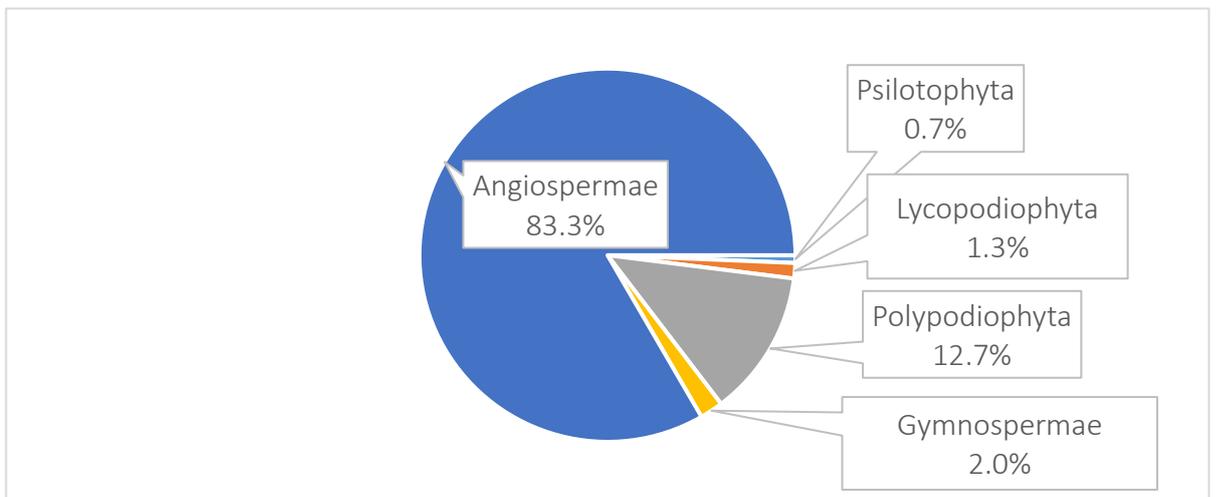


Figure 24. Families number by percentage among phylum

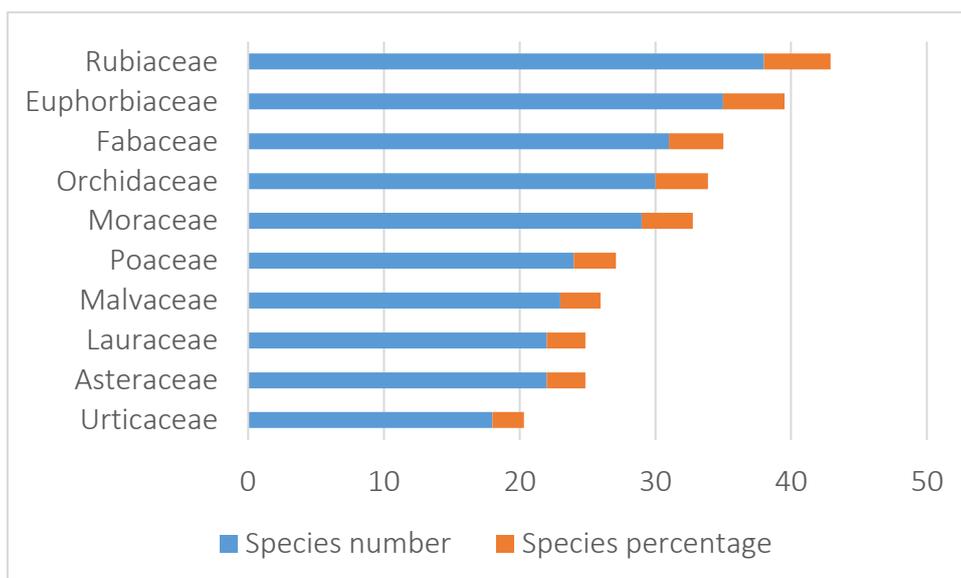


Figure 25. Ten species-richest families in Nam Xuan Lac SHCA

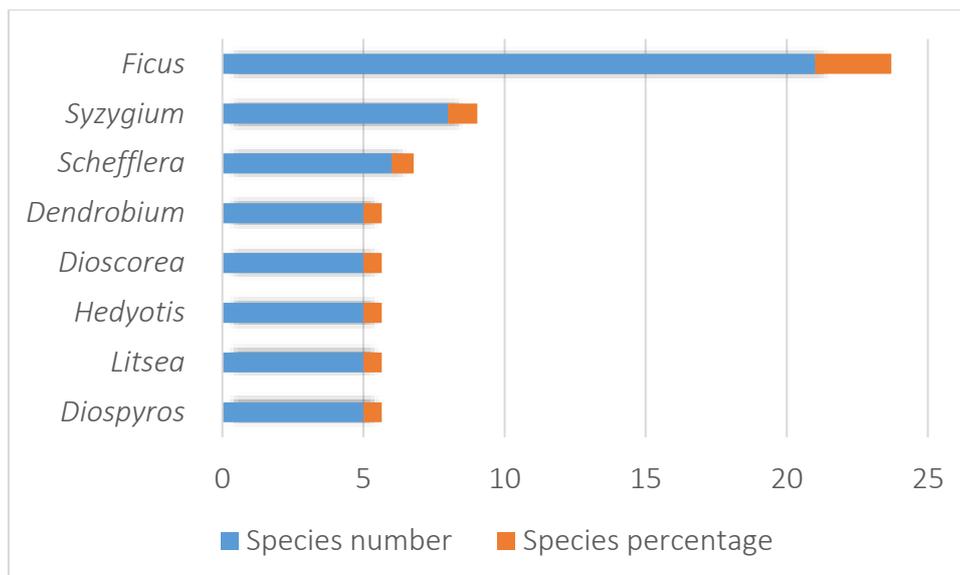


Figure 26. Eight species-richest genera in Nam Xuan Lac SHCA

According to previous studies, total plant species were recorded in Nam Xuan Lac SHCA about 512 species belonging to around 352 genera of 115 families (Nguyen *et al.* 2011). In this research, the number of species is higher with 774 species belonging to 521 genera of 150 families. The new recorded for the study area included about 262 species, 169 genera, and 35 families.

On the other hand, this research could not find some rare species such as *Cinnamomum balansae*, *Chukrasia tabularis*, *Fibraurea tinctoria*, *Paphiopedilum hirsutissimum* (Table 5 Table 5). Some species may be extinct in the wild of the SHCA including *Pinus fenzeliana*, *Balanophora cucphuongensis*, *Panax stipuleanatus*, *Stephania dielsiana*, *Tinospora sagittata*, *Kadsura coccinea*, *Camellia hamyenensis* (Table 5 Table 5).

Table 5. Some rare species could not find in Nam Xuan Lac SHCA

Araliaceae	<i>Panax stipuleanatus</i> Tsai & Feng
Balanophoraceae	<i>Balanophora cucphuongensis</i> N. T. Ban
Balanophoraceae	<i>Balanophora latisepala</i> (Tiegh.) Lecomte
Berberidaceae	<i>Mahonia nepalensis</i> DC.
Berberidaceae	<i>Podophyllum versipelle</i> Hance
Campanulaceae	<i>Codonopsis javanica</i> (Blume) Hook. f. & Thoms
Lauraceae	<i>Cinnamomum balansae</i> Lecomte
Meliaceae	<i>Chukrasia tabularis</i> A.Juss.
Menispermaceae	<i>Fibraurea tinctoria</i> Lour
Menispermaceae	<i>Stephania dielsiana</i> Y. C. Wu

Menispermaceae	<i>Tinospora sagittata</i> (Oliv.) Gagnep
Orchidaceae	<i>Paphiopedilum hirsutissimum</i> (Lindl.) Stein
Orchidaceae	<i>Paphiopedilum malipoense</i> S. C. Chen & Z. H. Tsi
Orchidaceae	<i>Paphiopedilum micranthum</i> T. Tang & F.T. Wang
Orchidaceae	<i>Anoectochilus calcareus</i> Aver
Pinaceae	<i>Pinus fenzeliana</i> Hand.-Mazz.
Schisandraceae	<i>Kadsura coccinea</i> (Lem.) A. C. Smith
Theaceae	<i>Camellia hamyenensis</i> M. Sealy

The total species number in Nam Xuan Lac SHCA found is the smallest when compared with Cham Chu NR, Bac Me NR, and Phia Oac – Phia Den NP. This happen could be this area is smallest in comparison with the other areas.

2.4.2. Life form diversity

Most species recorded are woody trees with 644 species, followed by herb with 523 species, shrub with 303 species, liana with 209 species, epiphyte (Epiph.) with 62 species, bambusoid (Bambu.) with 17 species, palm with 6 species, and aquatic with 2 species ([Figure 27](#) ~~Figure-27~~).

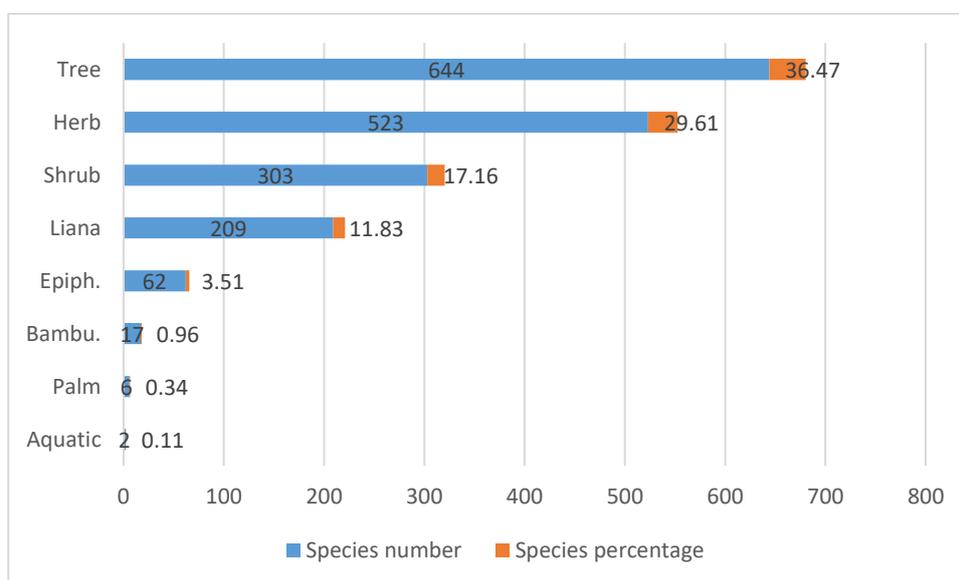


Figure 27. Life form diversity of plant species in study areas

2.4.2.1. Cham Chu Nature Reserve

The woody trees in the Cham Chu NR show the highest diversity 36% (394 species) of the total recorded species. The second-highest percentage of 32% (350 species) is herbaceous plants. To continue, shrubs with 18% (192 species), lianas with 11% (125 species), and epiphytes with 3% (28 species) ([Figure 28](#) ~~Figure-28~~, Annex 3). The woody trees and herbaceous plant species

recorded in the Cham Chu NR Forest show the highest diversity typical in forest ecosystems (Whigham, 2004; Gilliam, 2007).

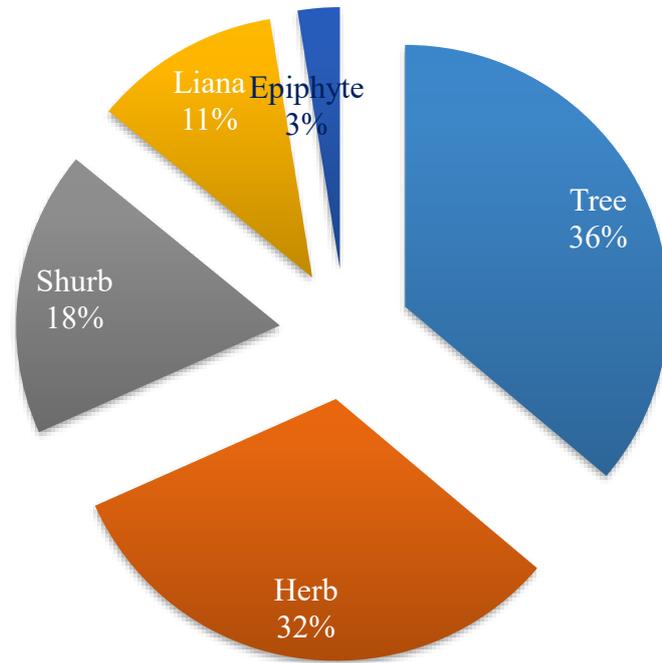


Figure 28. The relative proportion of growth habits of plant species in the Cham Chu NR

2.4.2.2. Bac Me Nature Reserve

Of the 1037 plant species recorded in the study area, there are two aquatics form species (0.19%), four palms form species (0.39), eight bambusoids form species (0.77%), 29 epiphytes form species (2.8%), 97 liana form species (9.35%), 167 shrubs form species (16.1%), 341 herbs form species (32.88%), and 389 trees form species (37.51%), (**Figure 29** **Figure 29**).

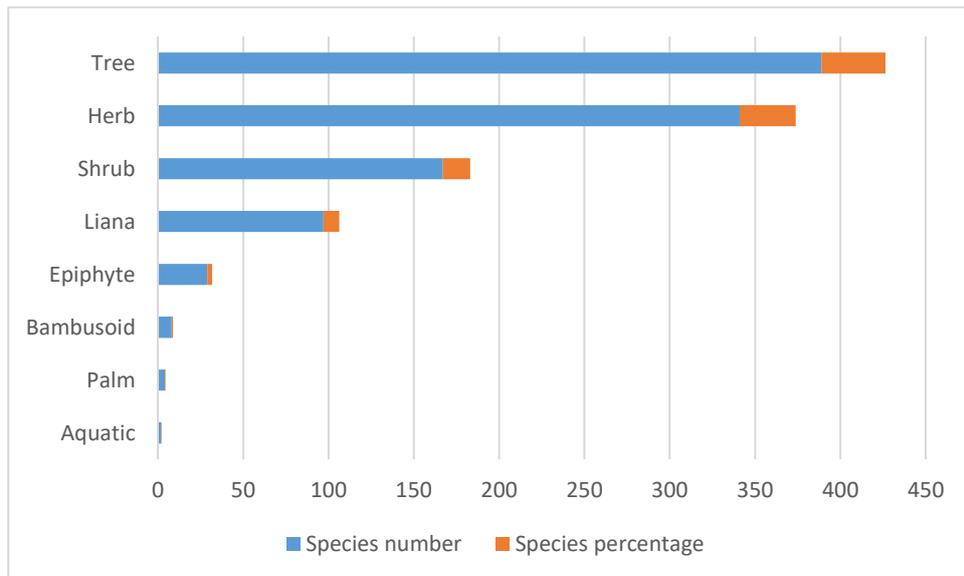


Figure 29. Plant form distribution of plant species in Bac Me NR

2.4.2.3. Phia Oac – Phia Den National Park

Of the 822 plant species recorded in the study area, there are eight life forms recorded. Of which, 295 species (equal to 35.89% of the total) were recorded as woody trees form, 245 species (equal to 29.81% of the total) were recorded as herb form, 142 species (equal to 17.28% of the total) were recorded as shrub form, 104 species (equal to 12.65% of the total) were recorded as liana form, 14 species (equal to 1.7% of the total) were recorded as bambusoid form, 14 species (equal to 1.7% of the total) were recorded as epiphyte form, seven species (equal to 0.85% of the total) were recorded as palm form, and one species (equal to 0.12% of the total) was recorded as aquatic form ([Figure 30](#)).

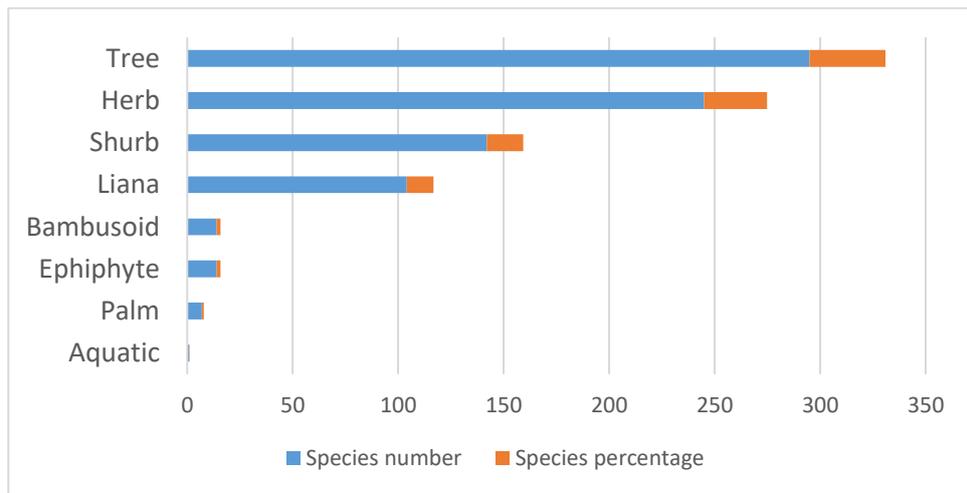


Figure 30. Life form diversity of plant species in Phia Oac - Phia Den NP

2.4.2.4. Nam Xuan Lac Species and Habitat Conservation Area

Of the 774 plant species recorded in the study area, there are eight plant habits recorded. Of which, 338 species (equal to 43.67% of the total) were recorded as Tree, 225 species (equal to 29.07% of the total) were recorded as Herb, 102 species (equal to 13.18% of the total) were recorded as shrub, 28 species (equal to 3.62% of the total) were recorded as Epiphyte, three species (equal to 0.39% of the total) were recorded as Aquatic, two species (equal to 0.26% of the total) were recorded as Palm and two species (equal to 0.26% of the total) were recorded as Bambusoid ([Figure 31](#)).

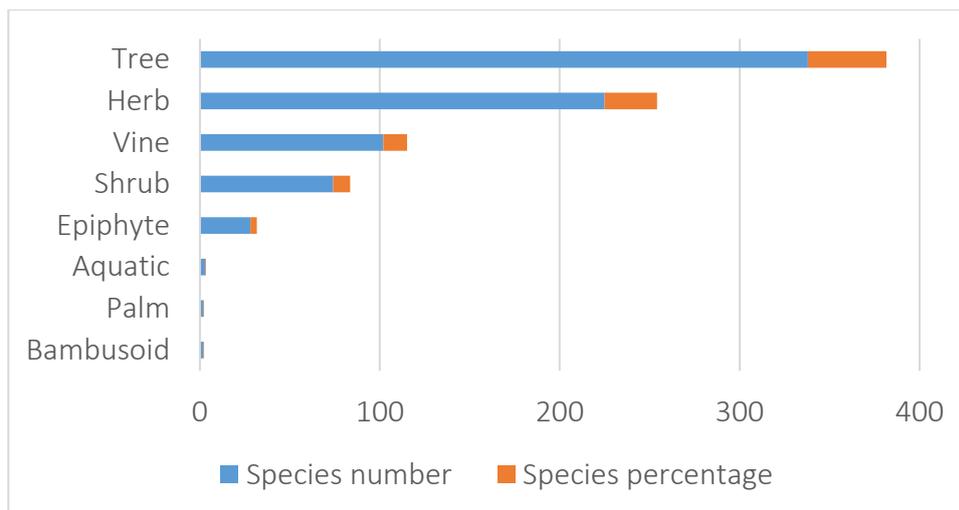


Figure 31. Plant form diversity in Nam Xuan Lac SHCA

Most of the plant species observed in the study area are woody trees and herbs with a total of 72.74%, followed by vine and shrub species. The most epiphyte recorded are ferns and orchids. The aquatic, palm, and bambusoid species were very few in the area, less than 1%. However, this record concentrates on the species numbers, not on individuals. As our observation, all most plants in the study area are shrubs, herbs, and vines.

2.4.3. Plant resources

In the four study areas, the total of species could be used as medicine plant are 753 species, followed by woody plants used for construction or furniture with 455 species, ornamental plants with 262 species, edible plants with 223 species, animal food plants with 92 species, bioactive plants with 50 species, fiber plants with 37 species and poisonous plant with 22 species ([Figure 32](#)).

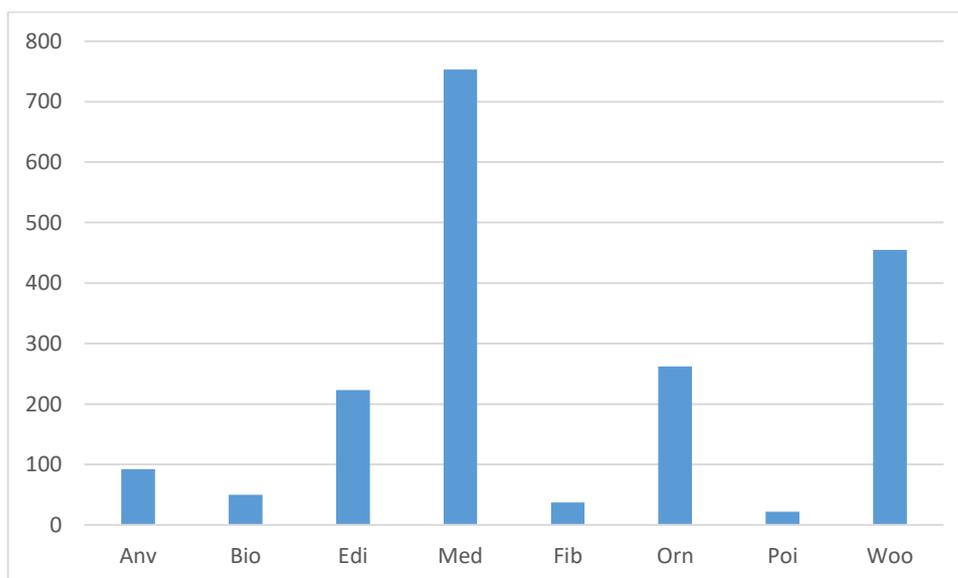


Figure 32. Plant resource diversity in four study areas

Anvi – Animal foods, Bio – Bioactive plants, Edi – Edible plants, Med – Medicine plants, Fib – Fiber plants, Orn – Ornamental plants, Poi – Poisonous plants, Woo – Woody plants used for construction, furniture.

2.4.3.1. Cham Chu Nature Reserve

In the Cham Chu NR, the total of species could be used as medicine plant are 529 species, followed by woody plants used for construction or furniture with 186 species, ornamental plants with 164 species, edible plants with 147 species, animal food plants with 51 species, bioactive plants with 37 species, fiber plants with 22 species and poisonous plant with 11 species ([Figure 33](#))

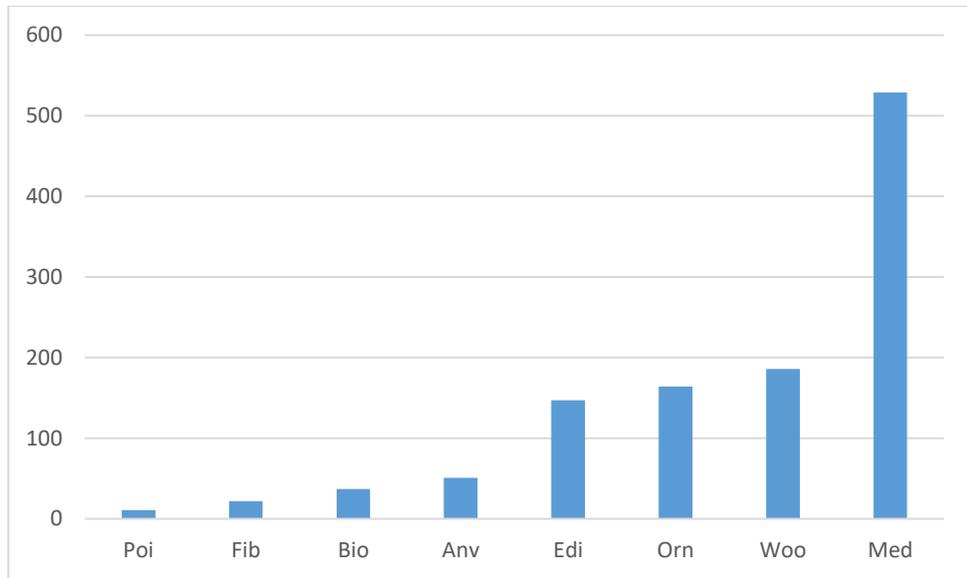


Figure 33. Plant resource diversity in the Cham Chu NR

2.4.3.2. Bac Me Nature Reserve

In the four study areas, the total of species could be used as medicine plant are 494 species, followed by woody plants used for construction or furniture with 271 species, ornamental plants with 147 species, edible plants with 139 species, animal food plants with 48 species, bioactive plants with 35 species, fiber plants with 22 species and poisonous plant with 12 species ([Figure 34](#))

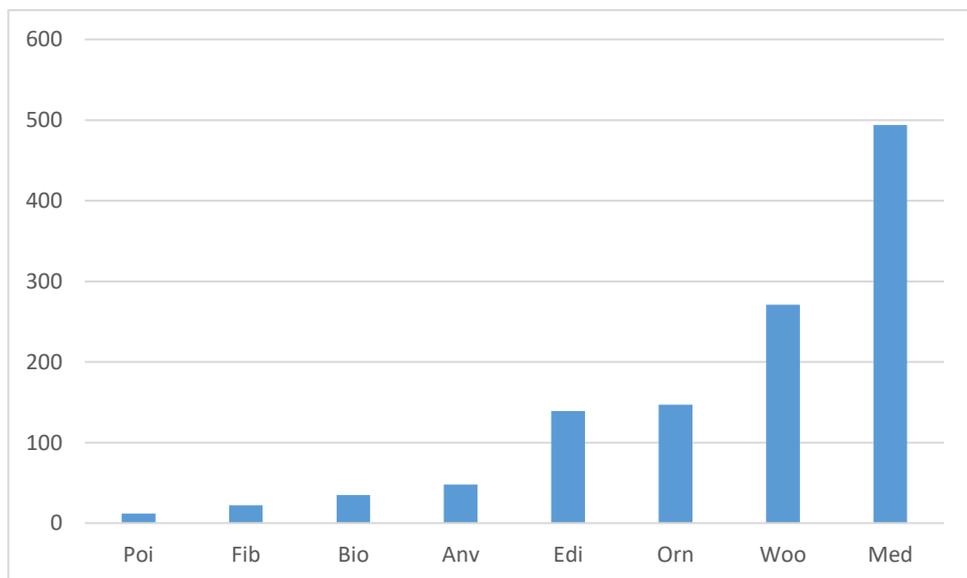


Figure 34. Plant resource diversity in the Bac Me NR

2.4.3.3. Phia Oac – Phia Den National Park

The results show that most plants are used for medicinal (40.75%), followed by construction wood (29.08%), vegetable (11.8%), ornamental (10.95%), animal food (6.45%), edible fruit (5.11%), and fiber (1.95%). Some species were recorded as biological activity (2.8%) and poisonous plants (1.85%) (Figure 35).

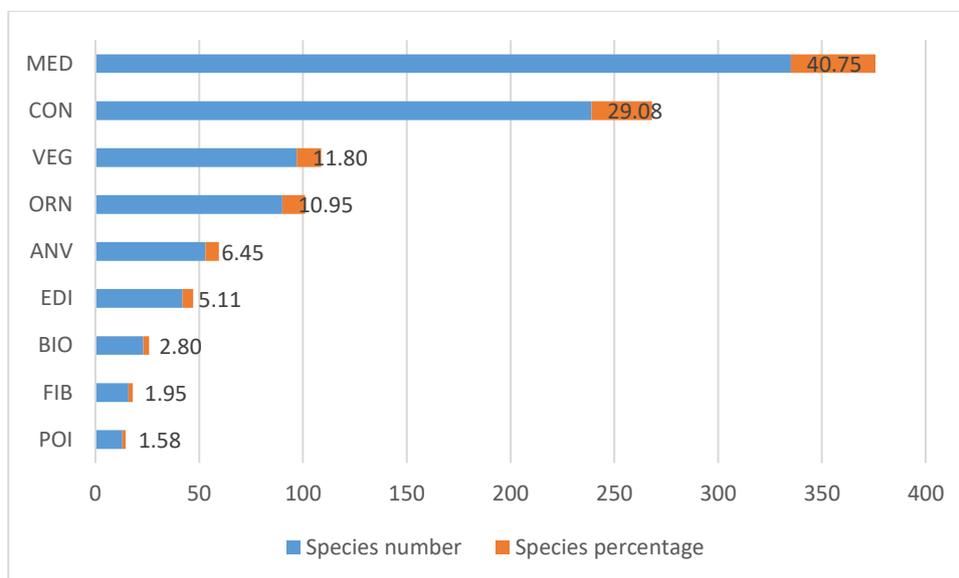


Figure 35. Plant resource diversity in the Phia Oac - Phia Den NP

ANV – Animal vegetable, BIO - Biological activity plant, CON – Construction wood, EDI – Edible fruit, FIB – Fiber plant, MED – Medicine plant, ORN – Ornameltal plant, POI – Poisonous plant, VEG – Vegetable.

As the result, up to 40.75% of recorded plant species are used as medicinal plants in the study area. It is a similar ratio recorded by NIMM (2016) for the whole country of Vietnam. Traditional medicine in Vietnam has a long history and plays an important role in many disease prevention and treatment (Nguyen 2007; Vo 2012a, b; Do 2004; Do et al. 2006a, b; MoH 2017a, b). On the other hand, 29.08% of tree species that could be used for construction, making furniture, or making houses, play an important role for local people. Since many local people live based on forests, these plants are significant for their livelihood.

2.4.3.4. Nam Xuan Lac Species and Habitat Conservation Area

The results show that most plants are used for medicinal (447 species, equal to 57.75%), followed by construction wood (201 species, 25.97%), ornamental plant (119 species, 15.37%), vegetable (79 species, 6.46%), animal food (33 species, 4.26%), edible fruit (22 species, 2.84%), and fiber plant (17 species, 2.2%). Some species were recorded as biological activity (33 species, 4.26%) and poisonous plants (6 species, 0.78%) (Figure 36).

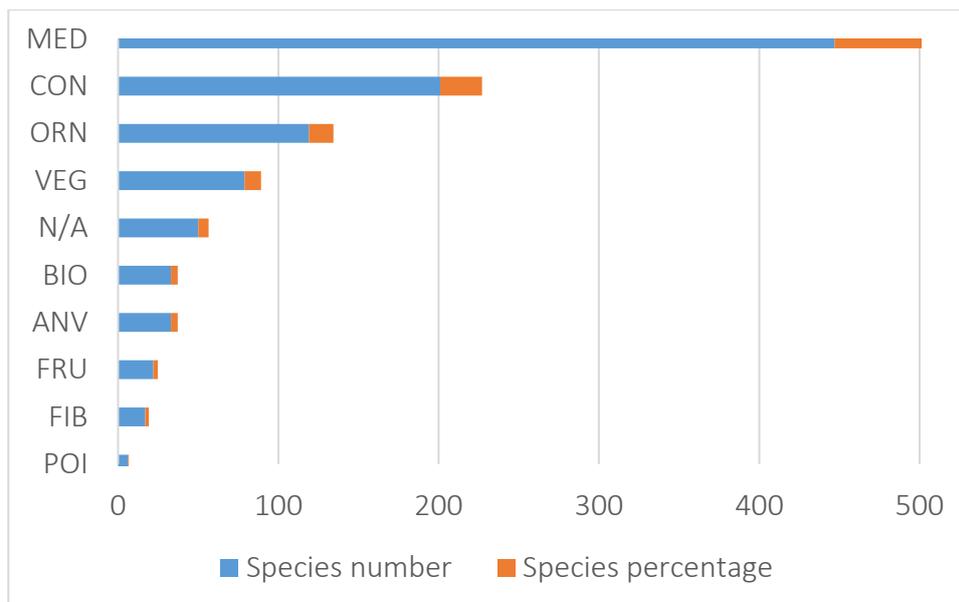


Figure 36. The plant resource diversity in the Nam Xuan Lac SHCA

ANV – Animal vegetable, *BIO* - Biological activity plant, *CON* – Construction wood, *FIB* – Fiber plant, *FRU* – Edible fruit, *MED* – Medicine plant, *ORN* – Ornameltal plant, *POI* – Poisonous plant, *VEG* – Vegetable.

Most plants recorded in the study area could be used by local people. More than half of them (57.75%) could be used as traditional medicine. This result is more or less similar to the publication of Nguyen (2014), which study recorded 458 medicine plant species. The second highest group belongs to trees for construction, which contained about 201 species. Since most trees in the limestone mountain-grown very slow because of hard conditions. The timber of these trees is very hard and good for construction.

2.4.4. Species distribution along gradient elevation by plot study

A total of 7,891 individuals belonging to 608 plant species were obtained in 54 plots (**Figure 37**). These species were found distributed within 133 families and 365 genera. Among them, 351 species belonging to 232 genera of 95 families were recorded in Bac Me NR, 258 species belonging to 196 genera of 91 families were recorded in Cham Chu NR, 208 species belonging to 159 genera of 94 families were recorded in Phia Oac-Phia Den NP, and 171 species belonging to 159 genera of 78 families were recorded in Nam Xuan Lac SHCA. The Bac Me NR in Ha Giang Province is the richest family in terms of the number of species and genera.

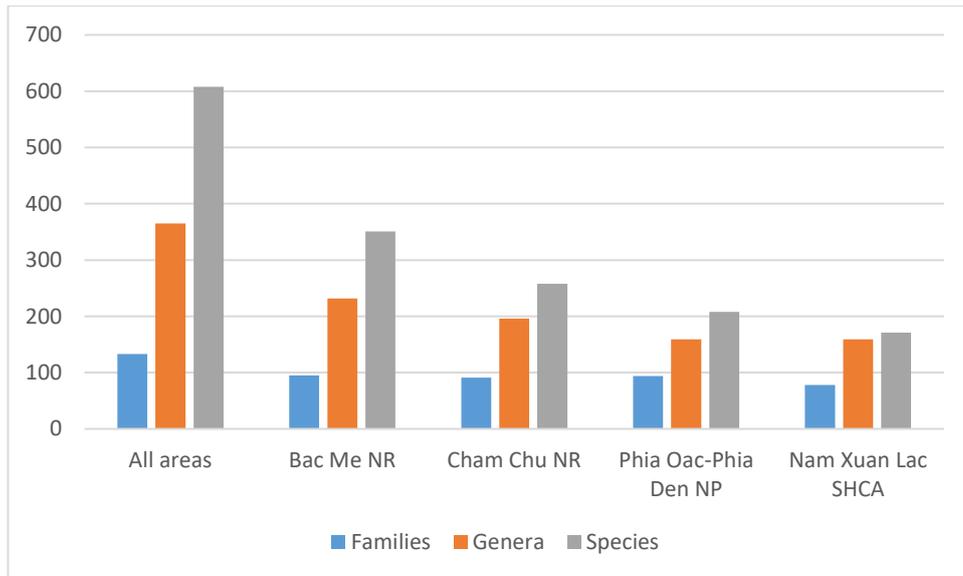


Figure 37. The families, genera, and species found in four study areas by plot study

Most species were found at around 1000 m a.s.l., the species reduced when elevation higher (**Figure 38**). The plant species composition in Nam Xuan Lac SHCA is most similar to that of Bac Me NR and Cham Chu NR. The species composition in Phia Oac – Phia Den NP is sometimes similar to that of Nam Xuan Lac SHCA and Cham Chu NR (**Figure 39**).

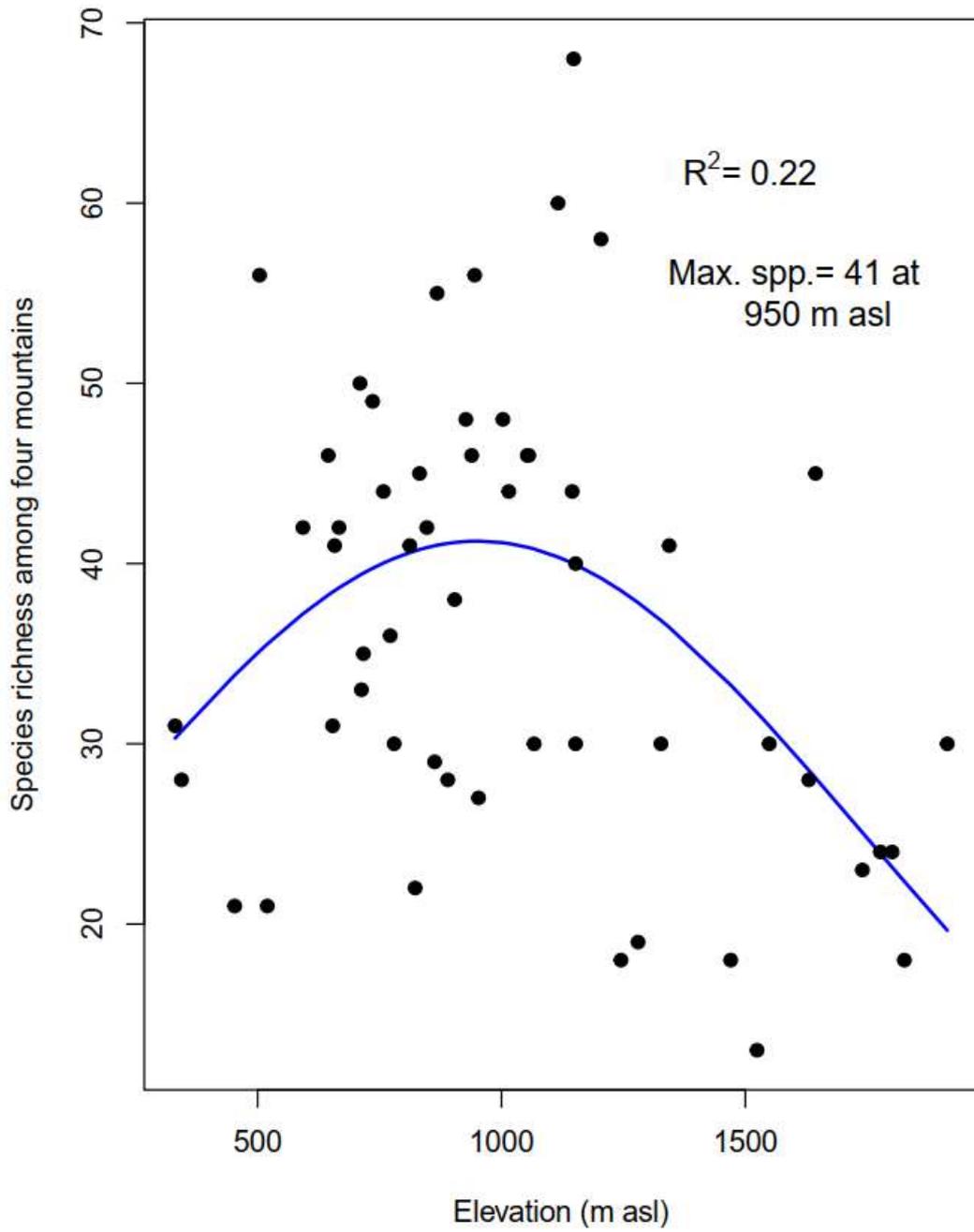


Figure 38. Relationship between elevation and species richness. The fitted line is the significant line after generalized.

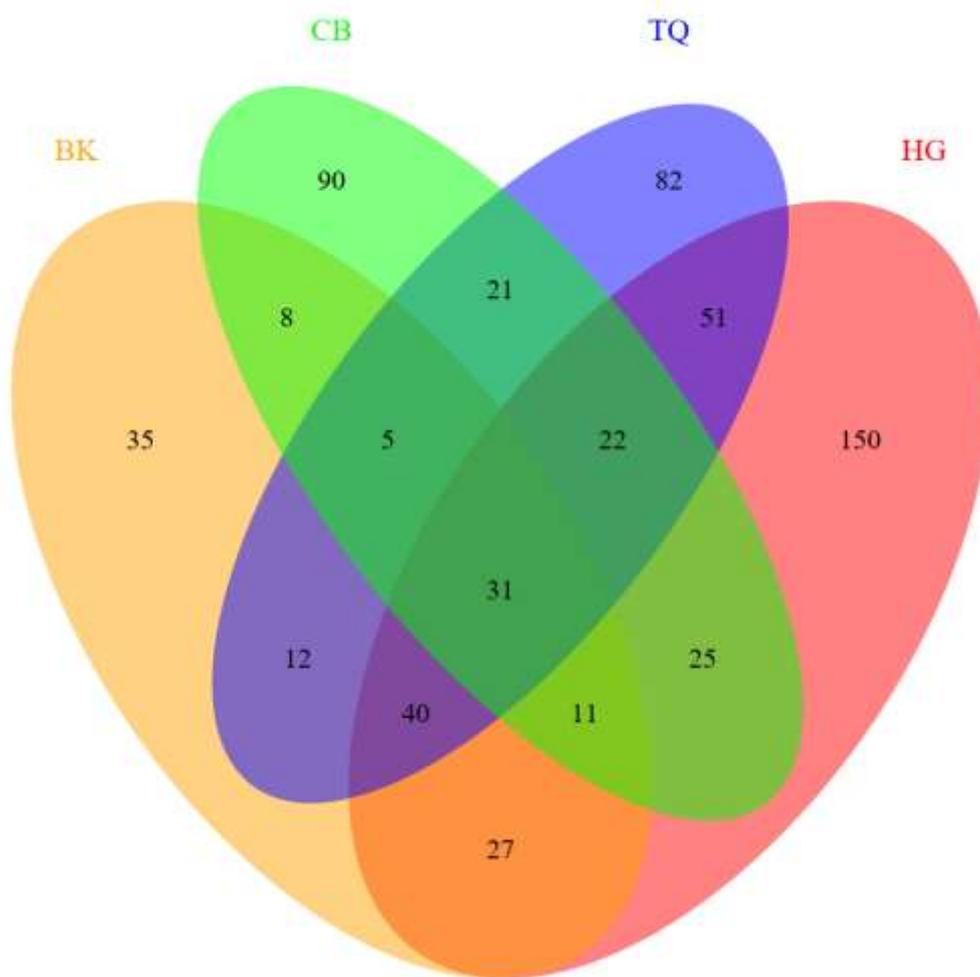


Figure 39. Venn diagram of plant species occurred among four mountains. (BK = Nam Xuan Lac NR, CB = Phia Oac – Phia Den NP, HG = Bac Me NR, TQ = Cham Chu NR)

2.4.4.1. Cham Chu Nature Reserve

According to the plot survey result, the dominant species at different altitudes in Cham Chu NR are given in **Table 6**.

Table 6. The floristic composition of Cham Chu NR at different altitudes

Altitude range (m)	Forest type	<i>Dominant/ common floral element</i>
600-700	Limestone mountain	<i>Aglaonema simplex</i> Blume, <i>Burretiodendron hsienmu</i> W.Y.Chun & F.C.How, <i>Cleidion spiciflorum</i> Merr, <i>Croton tiglium</i> L., <i>Diospyros buxifolia</i> (Blume) Hiern, <i>Gomphandra mollis</i> Merr., <i>Machilus thunbergii</i> Sieb. & Zucc, <i>Myxopyrum nervosum</i> Blume, <i>Neonauclea purpurea</i> Merr., <i>Nephelium cuspidatum</i> Blume var. <i>bassacense</i> (Pierre) Leenh, <i>Pandanus humilis</i> Lour, <i>Polyalthia lauii</i> Merr., <i>Polyalthia parviflora</i> Ridl., <i>Rhaphidophora chevalieri</i> Gagnep, <i>Salacia chinensis</i> L., <i>Sinosideroxylon bonii</i> Aubr, <i>Sterculia lanceolata</i> Cav.

700-800	Limestone mountain	<p><i>Abrus precatorius</i> L., <i>Aidia oxydonta</i> Yamazaki, <i>Anoectochilus calcareus</i> Aver., <i>Asplenium nidus</i> L., <i>Cleidion spiciflorum</i> Merr, <i>Diospyros buxifolia</i> (Blume) Hiern, <i>Diospyros susarticulata</i> Lecomte, <i>Erythralium scandens</i> Blume, <i>Euonymus forbesianus</i> Loes, <i>Garcinia oblongifolia</i> Champ. ex Benth., <i>Gomphandra mollis</i> Merr., <i>Hymenophyllum barbatum</i> (Bosch) Baker, <i>Ixora henryi</i> Levl., <i>Maclura cochinchinensis</i> Corn., <i>Nephelium cuspidatum</i> Blume var. <i>bassacense</i> (Pierre) Leenh, <i>Rothmannia eucodon</i> (K. Schum.) Bremek, <i>Sarcosperma kachinense</i> Exell, <i>Syzygium levinei</i> (Merr.) Merr. & Perry</p>
800-900	Limestone mountain	<p><i>Aglaiia odorata</i> Lour., <i>Ardisia arborescens</i> Wall. ex A.DC., <i>Asplenium nidus</i> L., <i>Celtis tetrandra</i> Roxb., <i>Cleidion spiciflorum</i> Merr, <i>Cryptocarya chingii</i> Cheng, <i>Diospyros morrisiana</i> Hance, <i>Diospyros susarticulata</i> Lecomte, <i>Euonymus forbesianus</i> Loes, <i>Garcinia gracilis</i> Pierre, <i>Justicia glomerulata</i> Benoist, <i>Lindera spirei</i> Kosterm. sec. Phamh, <i>Machilus bonii</i> Lecomte, <i>Milium sinensis</i> Fin. & Gagnep., <i>Nephelium cuspidatum</i> Blume var. <i>bassacense</i> (Pierre) Leenh, <i>Rhaphidophora chevalieri</i> Gagnep, <i>Rothmannia eucodon</i> (K. Schum.) Bremek, <i>Selaginella chrysocaulos</i> Spring, <i>Tarenna attenuata</i> Hutch., <i>Tetrastigma planicaule</i>(Hook.) Gagnep.</p>
900-1000	Limestone mountain	<p><i>Aeschynanthus acimunatus</i> Wall. ex A. DC, <i>Alphonsea philastreana</i> Pierre ex Finet & Gagnep., <i>Ardisia silvestris</i> Pit., <i>Asplenium nidus</i> L., <i>Beilschmiedia percoriacea</i> C.K. Allen, <i>Calanthe densiflora</i> Lindl, <i>Canthium umbellatum</i> Wight, <i>Claoxylon longifolium</i> (Blume) Endl. ex Hassk, <i>Diospyros susarticulata</i> Lecomte, <i>Ixora henryi</i> Levl., <i>Machilus bonii</i> Lecomte, <i>Phoebe lanceolata</i> (Wall. ex Nees) Nees, <i>Polyalthia parviflora</i> Ridl., <i>Pothos chinensis</i> (Raf.) Merr, <i>Strobilanthes echinata</i> Nees, <i>Syzygium levinei</i> (Merr.) Merr. & Perry, <i>Tabernaemontana bovina</i> Lour., <i>Tectaria decurrens</i> (C. Presl) Copel.</p>
1000-1100	Limestone mountain	<p><i>Acer wilsonii</i> Rehd, <i>Aglaiia duperreana</i> Pierre, <i>Alyxia pisiformis</i> Pierre ex Pitard, <i>Bauhinia ornata</i> var. <i>balansae</i> K. & S. Larsen, <i>Boeica porosa</i> C. B. Clarke in A. DC, <i>Canarium tramdenum</i> Dai. & Yakovl., <i>Castanopsis formosana</i> (Skan) Hayata, <i>Dendropanax chevalieri</i> Merr., <i>Disporum cantoniense</i> (Lour.) Merr., <i>Ficus glaberrima</i> Blume, <i>Garcinia fragraeoides</i> A.Chev., <i>Gomphandra quadrifida</i> (Blume) Sleum, <i>Lindera spirei</i> Kosterm. sec. Phamh, <i>Machilus chinensis</i> Hemsl., <i>Mangifera foetida</i> Lour., <i>Paphiopedilum hirsutissimum</i> Stein, <i>Pittosporum tetraspermum</i> Wight & Arn, <i>Platycarya strobilacea</i> Siebold & Zucc., <i>Podocarpus neriifolius</i> D.Don, <i>Schefflera heptaphylla</i> Frodin., <i>Schefflera</i></p>

1100-1200	Limestone mountain	<i>tonkinensis</i> R. Vig, <i>Sinosideroxylon wigthianum</i> Hook. & Arn, <i>Syzygium levinei</i> (Merr.) Merr. & Perry, <i>Tarenna attenuata</i> Hutch., <i>Tetradium glabrifolium</i> (Champ. ex Benth.) T.G. Hartley <i>Castanopsis formosana</i> (Skan) Hayata, <i>Clausena indica</i> Oliv, <i>Eriobotrya bengalensis</i> (Roxb.) Hook. F, <i>Ficus vasculosa</i> Wall. ex Miq., <i>Garcinia fragraeoides</i> A.Chev., <i>Garcinia gracilis</i> Pierre, <i>Helicia grandifolia</i> H. Lec, <i>Lithocarpus bonnetii</i> (Hickel & A. Camus) A. Camus, <i>Machilus chinensis</i> Hemsl., <i>Myrsine affinis</i> A. DC., <i>Ophiorrhiza japonica</i> Blume, <i>Platycarya strobilacea</i> Siebold & Zucc, <i>Podocarpus neriifolius</i> D.Don, <i>Polygala wattersii</i> Hance, <i>Polygonatum punctatum</i> Royl, <i>Schefflera heptaphylla</i> Frodin., <i>Symplocos rigida</i> Clarke, <i>Viburnum lutescens</i> Blume, <i>Viola philippica</i> var. <i>pseudojaponica</i> (Nakai) Y.S.Chen
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2.4.4.2. Bac Me Nature Reserve

According to the plot survey result, the dominant species at different altitudes in Bac Me NR are given in [Table 7](#).

Table 7. The floristic composition of Bac Me NR at different altitudes

Altitude range (m)	Forest type	Dominant/ common floral element
300-400	Limestone slope	in Tree: <i>Burretiodendron hsienmu</i> , <i>Sterculia nobilis</i> , <i>Glycosmis cymose</i> , <i>Meliosma fordii</i> , <i>Streblus ilicifolius</i> . Shrub: <i>Cleistanthus sumatranus</i> , <i>C. tonkinensis</i> , <i>Dracaena angustifolia</i> , <i>Glycosmis cymose</i> , <i>Walsura cochinchinensis</i> . Vine: <i>Bauhinia scandens</i> , <i>Cryptolepis sinensis</i> . Herb: <i>Calanthe herbacea</i> , <i>Carex thomsonii</i> , <i>Liparis petiolate</i> , <i>Peliosanthes teta</i> . Regeneration: <i>Alphonsea philastreana</i> , <i>Celtis tetrandra</i> , <i>Cleidion spiciflorum</i> , <i>C. spiciflorum</i> , <i>Diospyros mollis</i> , <i>Excoecaria cochinchinensis</i> , <i>Garcinia fragraeoides</i> , <i>Gironniera subaequalis</i> , <i>Gironniera subaequalis</i> , <i>Miliusa balansae</i> , <i>Salacia chinensis</i> , <i>Sterculia nobilis</i> , <i>Streblus ilicifolius</i> , <i>Strychnos axillaris</i> .
500-600	Limestone valey	in Tree: <i>Aidia oxydonta</i> , <i>Burretiodendron hsienmu</i> , <i>Canarium bengalense</i> , <i>Celtis philippensis</i> , <i>Diospyros brandisiana</i> , <i>Drimycarpus racemosus</i> , <i>Ficus hispida</i> var. <i>badiostrigosa</i> , <i>Linociera</i> sp., <i>Machilus oreophila</i> , <i>Pometia pinnata</i> , <i>Radermachera ignea</i> , <i>Sloanea sinensis</i> , <i>Toona surenii</i> . Shurb: <i>Antidesma ghaesembilla</i> , <i>Carallia brachiate</i> , <i>Caryota mitis</i> , <i>Costus specionsus</i> , <i>Dracaena eliptica</i> ,

Gomphandra quadrifida, *Impatiens morsei*, *Leea bracteata*, *Psychotria silvestris*, *Phyllagathis cavaleriei*. Vine: *Acacia tonkinensis*, *Artabotrys hexapetalus*, *Calamus tetradactylus*, *Dioscorea hispida*, *Erythropalum scandens*, *Illigera celebica*, *Gnetum montanum*, *Lysionotus pauciflorus*, *Pothos chinensis*, *Tetrastigma henryi*. Herb: *Amorphophallus tonkinesnis*, *Arisaema balansae*, *Calanthe triplicata*, *Elastostema lineolate*, *Gymnopetalum integrifolium*, *Ophiopogon latifolius*, *Piper bonii*, *P. pendulispicum*, *Tacca chantrieri*. Regeneration: *Aglaia spectabilis*, *Alseodaphne tonkinensis*, *Archidendron robinsonii*, *Canarium bengalense*, *Caryodaphnopsis poilanei*, *Celtis philippensis*, *Drimycarpus racemosus*, *Ficus hispida* var. *badiostrigosa*, *Garcinia gracilis*, *Gomphandra mollis*, *Litsea umbellata*, *Lithocarpus balansae*, *L. fenestratus*, *Machilus oreophila*, *Miliusa balansae*, *Polyalthia parviflora*, *Pometia pinnata*, *Pterospermum argenteum*, *Rothmannia eucodon*, *Syzygium levinei*, *Trevesia palmata*.

600-700	Limestone slope	in	<p>Tree: <i>Dysoxylum binectariferum</i>, <i>Linociera</i> sp., <i>Pterospermum heterophyllum</i>, <i>Rothmannia eucodon</i>, <i>Sapium sebiferum</i>, <i>Spondias lakonensis</i>. Shurb: <i>Bridelia pierrei</i>, <i>Costus speciosus</i>, <i>racaena angustifolia</i>, <i>Justicia glomerulata</i>, <i>Ornithoboea parishii</i>, <i>Psychotria montana</i>. Vine: <i>Acacia coccinna</i>, <i>Artabotrys hexapetalus</i>, <i>Erythropalum scandens</i>, <i>Gnetum montanum</i>, <i>Pothos chinensis</i>, <i>Salacia chinensis</i>, <i>Smilax ferox</i>, <i>Strychnos axillaris</i>, <i>Tetrastigma beauvaisi</i>. Herb: <i>Acanthephippium gougahensis</i>, <i>Aglaonema modestum</i>, <i>Begonia bacmeensis</i>, <i>Liparis</i> sp., <i>Ophiopogon reptans</i>, <i>Pilea hookeriana</i>. Regeneration: <i>Aglaia duperreana</i>, <i>A. odorata</i>, <i>Dimocarpus fumatus</i>, <i>Diospyros susarticulata</i>, <i>Drimycarpus racemosus</i>, <i>Dysoxylum binectariferum</i>, <i>Firmiana colorata</i>, <i>Garcinia fagraeoides</i>, <i>G. oblongifolia</i>, <i>Linociera</i> sp., <i>Miliusa balansae</i>, <i>Polyalthia thorelii</i>, <i>Rothmannia eucodon</i>, <i>Sinosideroxylon bonii</i>, <i>Trevesia palmata</i>.</p>
700-800	Limestone slope	in	<p>Tree: <i>Bridelia pierrei</i>, <i>Burretiodendron hsienmu</i>, <i>Dimocarpus fumatus</i>, <i>Dysoxylum binectariferum</i>, <i>Garcinia fagraeoides</i>, <i>Garcinia gracilis</i>, <i>Gironniera subaequalis</i>, <i>Machilus thunbergia</i>, <i>Nephelium cuspidatum</i> var. <i>bassacense</i>, <i>Sapium sebiferum</i>. Shurb: <i>Didymocarpus bonii</i>,</p>

Dracaena angustifolia, *Glyptopetalum harmandianum*, *Justicia glomerulata*, *Maclura cochinchinensis*, *Mycetia balansae*, *Pittosporum tetraspermum*, *Psychotria montana*. Vine: *Artabotrys hexapetalus*, *Bauhinia coccinea*, *Clematis buchaniana*, *Derris balansae*, *Hoya tamdaoensis*, *Hoya vangviengensis*, *Mussaenda glabra*, *Pothos chinensis*, *Salacia chinensis*, *Smilax aspericaulis*, *Strychnos axillaris*, *Tetrastigma beauvaisi*, *T. henryi*, *T. petelotii*. Herb: *Amorphophallus coetaneus*, *Begonia bacmeensis*, *Elastostema balansae*, *Elastostema lineolate*, *Pholidota longipes*, *Pilea hookeriana*, *Piper bonii*. Regeneration: *Aglaiia elaeagnoidea*, *Aidia cochinchinensis*, *A. oxydonta*, *Burretiodendron hsienmu*, *Celtis tetrandra*, *Dimocarpus fumatus*, *Diospyros susarticulata*, *Ficus hispida* var. *badiostrigosa*, *Garcinia fagraeoides*, *G. gracilis*, *Gironniera subaequalis*, *Linociera* sp., *Machilus thunbergii*, *Rothmannia eucodon*, *Streblus tonkinensis*.

800-900

Limestone in
slope

Tree: *Aglaiia elaeagnoidea*, *Deutzianthus tonkinensis*, *Diospyros mollis*, *Garcinia gracilis*, *Machilus oreophila*, *Mitrephora calcarea*, *Pterospermum truncatolobatum*, *Sterculia lanceolata*. Shurb: *Antidesma montanum*, *Bridelia pierrei*, *Euonymus forbesianus*, *Flacourtia indica*, *Glochidion rubrum*, *Myrioneuron effusum*, *Myrioneuron tonkinense*, *Pittosporum tetraspermum*, *Pittosporum tetraspermum*, *Psychotria silvestris*, *Sauropus assimilis*. Vine: *Aeschynanthus acimunatus*, *Bauhinia championii*, *Calamus palustris*, *Clematis granulate*, *Gnetum montanum*, *Lysionotus pauciflorus*, *Strychnos axillaris*, *Tetrastigma planicaule*, *Uvaria petelotii*. Herb: *Amorphophallus tonkinesnis*, *Arisaema balansae*, *Begonia bacmeensis*, *B. caobangensis*, *Elastostema baviensis*, *Justicia glomerulata*, *Pilea peploides*, *Piper bonii*. Regeneration: *Burretiodendron hsienmu*, *Aglaiia odorata*, *Ardisia arborescens*, *Celtis philippensis*, *Cinnamomum bejolghota*, *Clausena dunniana*, *Dimocarpus fumatus*, *Diospyros mollis*, *Dysoxylum binectariferum*, *Ficus hispida* var. *badiostrigosa*, *Ficus obscura*, *Firmiana colorata*, *Garcinia gracilis*, *Machilus oreophila*, *M. thunbergia*, *Polyalthia thorelii*, *Pometia pinnata*, *Pterospermum truncatolobatum*, *Schefflera heptaphylla*, *Sterculia parviflora*, *Trevesia palmata*.

900-1000	Limestone slope	in Tree: <i>Aidia oxydonta</i> , <i>Artocarpus lakoocha</i> , <i>Dimocarpus fumatus</i> , <i>Diospyros susarticulata</i> . Shurb: <i>Cayratia geniculate</i> , <i>Clerodendrum gaudichaudii</i> , <i>Didymocarpus bonii</i> , <i>Euonymus forbesianus</i> , <i>Flacourtia indica</i> , <i>Justicia glomerulata</i> , <i>Myrioneuron tonkinense</i> , <i>Piper pendulispicum</i> , <i>Psychotria silvestris</i> , <i>Rothmannia eucodon</i> . Vine: <i>Abrus precatorius</i> , <i>Aeschynanthus acimunatus</i> , <i>Bauhinia coccinea</i> , <i>Bauhinia ornata</i> var. <i>balansae</i> , <i>Clematis buchianiana</i> , <i>Derris balansae</i> , <i>Pothos repens</i> , <i>Salacia chinensis</i> , <i>Smilax ferox</i> , <i>Strychnos axillaris</i> , <i>Tetrastigma petelotii</i> . Herb: <i>Begonia caobangensis</i> , Ferns. Regeneration: <i>Aglaia elaeagnoidea</i> , <i>Aidia cochinchinensis</i> , <i>Aidia oxydonta</i> , <i>Alpinia conchigera</i> , <i>Ardisia arborescens</i> , <i>Beilschmiedia percoriacea</i> , <i>Clausena dunniana</i> , <i>Diospyros susarticulata</i> , <i>Drimycarpus racemosus</i> , <i>Dysoxylum binectariferum</i> , <i>Garcinia gracilis</i> , <i>Gomphandra quadrifida</i> , <i>Meliosma fordii</i> , <i>Polyalthia thorelii</i> , <i>Sloanea tomentosa</i> , <i>Trevesia palmata</i> .
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In the limestone forest of Bac Me NR, the common tree species could be found from 300 to 900m including *Burretiodendron hsienmu*. Some tree species such as *Sterculia nobilis*, *Glycosmis cymose*, *Meliosma fordii*, *Streblus ilicifolius* only distribute in low elevations (300-400m). The tree species *Artocarpus lakoocha* is only distributed at high elevations (900-1000m). The tree species *Dimocarpus fumatus*, *Garcinia gracilis*, *Diospyros susarticulata* were found at 500 to 1000m altitudes.

2.4.4.3. Phia Oac – Phia Den National Park

According to the 16 plots of survey results, the dominant species at different altitudes in Phia Oac - Phia Den are given in **Table 8**.

Table 8. The floristic composition in Phia Oac - Phia Den at different altitudes

Altitude range (m)	Forest type	Dominant/ common floral element
1100-1200	Broad-leaved evergreen forest	<i>Alpinia globose</i> , <i>Ardisia crenata</i> , <i>Asplenium nidus</i> , <i>Carallia lanceifolia</i> , <i>Asplenium nidus</i> , <i>Carallia lanceifolia</i> , <i>Choerospondias axillaris</i> , <i>Diospyros morrisiana</i> , <i>Engelhardtia spicata</i> , <i>Euodia leptota</i> , <i>Eurya acuminata</i> , <i>E. laotica</i> , <i>Glochidion eriocarpum</i> , <i>Helicia cochinchinensis</i> , <i>Lasianthus eberhardii</i> , <i>Lindera balansae</i> , <i>Machilus odoratissima</i> , <i>Piper pendulispicum</i> , <i>Pyrus pashia</i> , <i>Quercus myrsinifolia</i> , <i>Schefflera heptaphylla</i> , <i>Schima noronhae</i> , <i>Toxicodendron succedanea</i>

1200- 1300	Broad-leaved evergreen forest	<i>Blechnum orientale</i> , <i>Helicia grandifolia</i> , <i>Sinosideroxylon bonii</i> , <i>Symplocos lancifolia</i>
1300- 1400	Broad-leaved evergreen forest	<i>Alpinia globose</i> , <i>Calanthe densiflora</i> , <i>Castanopsis chinensis</i> , <i>Clethra faber</i> , <i>Elaeocarpus angustifolius</i> , <i>Gnetum montanum</i> , <i>Impatiens</i> sp., <i>Lithocarpus vestitus</i> , <i>Macaranga henryi</i> , <i>Machilus chinensis</i> , <i>Manglietia conifera</i> , <i>Manglietia dandyi</i> , <i>Psychotria montana</i> , <i>Quercus myrsinifolia</i> , <i>Symplocos lancifolia</i> , <i>Tetrastigma planicaule</i>
1400- 1500	Broad-leaved evergreen forest	<i>Acer flabellatum</i> , <i>Antrophyum callifolium</i> , <i>Machilus chinensis</i>
1500- 1600	Broad-leaved evergreen forest	<i>Antrophyum callifolium</i> , <i>Beilschmiedia percoriacea</i> , <i>Clethra faberi</i> , <i>Lasianthus eberhardii</i> , <i>Phyllagathis tonkinensis</i> , <i>Pteris cretica</i> , <i>Randia spinose</i> , <i>Rhododendron fleuryi</i> , <i>Selaginella chrysocaulos</i> , <i>Symplocos cambodiana</i>
1600- 1700	Broad-leaved evergreen forest	<i>Acer flabellatum</i> , <i>Actinodaphne pilosa</i> , <i>Aglaomorpha coronans</i> , <i>Aucuba japonica</i> , <i>Camellia caudate</i> , <i>Castanopsis chinensis</i> , <i>Cinnamomum curvifolium</i> , <i>Cryptocarya chingii</i> , <i>Cryptocarya hainanensis</i> , <i>Euonymus forbesianus</i> , <i>Eurya acuminata</i> , <i>Ilex macrocarpa</i> , <i>Machilus chinensis</i> , <i>Magnolia lanuginosa</i> , <i>Quercus myrsinifolia</i> , <i>Rhododendron arboretum</i> , <i>R. tanastylum</i> , <i>Rhodoleia championii</i> , <i>Selaginella chrysocaulos</i> , <i>Skimmia arborescens</i> , <i>Symplocos lancifolia</i> , <i>Tectaria decurrens</i> , <i>Ternstroemia japonica</i>
1700- 1800	Broad-leaved evergreen forest	<i>Acer flabellatum</i> , <i>Aglaomorpha coronans</i> , <i>Alpinia blepharocalyx</i> , <i>Antrophyum callifolium</i> , <i>Aucuba japonica</i> , <i>Camellia caudate</i> , <i>Ficus septica</i> , <i>Fimbristylis</i> sp., <i>Lysionotus pauciflorus</i> , <i>Machilus chinensis</i> , <i>Manglietia conifer</i> , <i>Primulina swinglei</i> , <i>Schefflera ciliate</i> , <i>Symplocos lancifolia</i> , <i>Ternstroemia japonica</i>
1800- 1900	Broad-leaved evergreen forest	<i>Acer flabellatum</i> , <i>Aucuba japonica</i> , <i>Beilschmiedia fordii</i> , <i>Blechnum orientale</i> , <i>Camellia caudate</i> , <i>Eurya acuminata</i> , <i>Manglietia hainanensis</i> , <i>Ophiopogon reptans</i> , <i>Quercus myrsinifolia</i> , <i>Randia spinose</i> , <i>Skimmia arborescens</i> , <i>Styrax annamensis</i>
>1900	Broad-leaved evergreen forest	<i>Aucuba japonica</i> , <i>Manglietia conifera</i> , <i>Randia spinose</i> , <i>Symplocos</i> sp.

Some common species grow in low elevations from 1100 to 1400 m a.s.l such as *Alpinia globose*, *Helicia* sp., *Quercus myrsinifolia* which indicate secondary forest. The species *Symplocos lancifolia* could grow from 1200 to 1900 m a.s.l. Some common species could grow above 1400 m such as *Acer flabellatum*, *Aucuba japonica*, and *Machilus chinensis*. The species *Eurya acuminata* commonly grow along with travel or road and could grow from 1100 to 1900 m a.s.l. This species also indicates for secondary forest.

2.4.4.4. Nam Xuan Lac Species and Habitat Conservation Area

According to survey results from eight plots, the dominant species at different altitudes in Nam Xuan Lac SHCA are given in [Table 9](#).

Table 9. The floristic composition of Nam Xuan Lac SHCA at different altitudes

Altitude range (m)	Forest type	Dominant/ common floral element
700-800	Broad-leaved evergreen forest on limestone	<i>Arisaema balansae</i> , <i>Arisaema lihengianum</i> , <i>Asplenium nidus</i> , <i>Burretiodendron hsienmu</i> , <i>Drynaria fortunei</i> , <i>Garcinia fragraeoides</i> , <i>Impatiens claviger</i> , <i>Leea bracteata</i> , <i>Lycianthes biflora</i> , <i>Lysimachia petelotii</i> , <i>Musa acuminata</i> , <i>Ophiorrhiza baviensis</i> , <i>Plantago major</i> , <i>Pometia pinnata</i> , <i>Rubia cordifolia</i> , <i>Strobilanthes echinata</i> , <i>Tetrastigma planicaule</i>
800-900	Broad-leaved evergreen forest on limestone	<i>Adenia heterophylla</i> , <i>Aglaia lawii</i> , <i>Aglaia spectabilis</i> , <i>Aglaomorpha coronans</i> , <i>Alphonsea philastreana</i> , <i>Amorphophallus tonkinensis</i> , <i>Archidendron balansae</i> , <i>Ardisia crenata</i> , <i>Asplenium nidus</i> , <i>Beilschmiedia fordii</i> , <i>Bischofia javanica</i> , <i>Burretiodendron hsienmu</i> , <i>Calamus nambariensis</i> , <i>Caryota mitis</i> , <i>Celtis tetrandra</i> , <i>Cleidion spiciflorum</i> , <i>Costus speciosus</i> , <i>Debregeasia longifolia</i> , <i>Diospyros susarticulata</i> , <i>Disporum cantoniense</i> , <i>Elaeagnus gonyanthes</i> , <i>Euodia leptia</i> , <i>Ficus hirta</i> , <i>Ficus tikoua</i> , <i>Garcinia gracilis</i> , <i>Gleditsia australis</i> , <i>Gnetum montanum</i> , <i>Goniothalamus macrocalyx</i> , <i>Hydnocarpus ilicifolia</i> , <i>Ioides cirrhosa</i> , <i>Itoa orientalis</i> , <i>Jasminum longisepalum</i> , <i>Justicia glomerulata</i> , <i>Lindera glauca</i> , <i>Lysidice rhodostegia</i> , <i>Lysionotus pauciflorus</i> , <i>Machilus bonii</i> , <i>Mallotus philippinesis</i> , <i>Mangifera foetida</i> , <i>Nephelium cuspidatum</i> var. <i>bassacense</i> , <i>Ophiopogon reptans</i> , <i>Paederia scandens</i> , <i>Pellionia trichosanthes</i> , <i>Piper pendulispicum</i> , <i>Pistachia weinmannifolia</i> , <i>Pometia pinnata</i> , <i>Psychotria montana</i> , <i>Pterospermum argenteum</i> , <i>Pterospermum truncatolobatum</i> , <i>Randia spinose</i> , <i>Rhaphidophora chevalieri</i> , <i>Rothmannia eucodon</i> , <i>Staurogyne diandra</i> , <i>Sterculia henryi</i> , <i>Symplocos rigida</i> , <i>Syzygium levinei</i>

Tacca chantrieri, *Tectaria phaeocaulis*, *Tetrastigma planicaule*, *Trigonostemon stellaris*, *Vernonia scandens*, *Walsura cochinchinensis*

900- Broad-leaved *Aglaia odorata*, *Diospyros susarticulata*, *Elatostema balansae*,
1000 evergreen forest *Ficus tikoua*, *Machilus bonii*
on limestone

1000- Broad-leaved *Aglaia odorata*, *Alocasia odora*, *Asplenium nidus*,
1100 evergreen forest *Dendrobium nobile*, *Elatostema coloniaeae*, *Eria coronaria*,
on limestone *Gynostemma pentaphyllum*, *Hymenophyllum barbatum*,
Manglietia hookeri, *Pothos chinensis*, *Rhaphidophora*
chevalieri, *Schefflera trunii*, *Strobilanthes echinata*,
Tinospora sagittata, *Vanda concolor*

Some common species could be found from 700 to above 1000 m a.s.l. such as *Aglaia lawii*, *Aglaia odorata*, *Ardisia crenata*, *Asplenium nidus*, *Piper pendulispicum*, *Strobilanthes echinata*.

2.4.5. Assessment of conservation status

A total of 169 species were listed for national and international conservation and management priorities (Annex 4). Of which, 22 species were listed in the IUCN Redlist of threatened species (2018), 78 species were listed in Vietnam Red Data Book (MOST and VAST, 2007), 106 species were listed in Decree No. 06/2019/ND-CP of Vietnamese National Government, and 35 species were listed in CITES 2007.

2.4.5.1. Cham Chu Nature Reserve

Of the total 1089 plant species recorded in the study area, 8.17% (89 species) were listed for national and international conservation and management priorities (Annex 4). Of these, 4.78% (52 species) are listed in the IUCN Redlist of threatened species (2018): 12 species are threatened including six Endangered species and six Vulnerable species.

Of the total of 50 species (4.9% of total recorded species) listed in the Vietnam Red Data Book (MOST and VAST, 2007), 37 species are threatened including two Critically Endangered species, 14 Endangered, and 34 Vulnerable species (Annex 4).

Fifty-two species (4.76% of total recorded species) are listed in Decree No. 06/2019/ND-CP of the Vietnamese National Government. This lists three species in Group IA and 49 species in Group IIA (Annex 4).

There are 35 species (3.21% of total recorded species) listed in CITES 2017. Two species are listed in Appendix 1; 31 species are listed in Appendix 2, and 2 species are listed in Appendix 3 of the Convention (Annex 4).

These species of conservation significance discussed here are not only important to the Vietnamese national government but also to international organizations and agencies for conservation planning, management, monitoring, and decision-making (Rodrigues *et al.*, 2006).

2.4.5.2. Bac Me Nature Reserve

A total of 86 species (8.29%) were listed for national and international conservation and management priorities (Annex 4). Of these, 47 species (4.53%) are listed in the Vietnam Red Data Book (MOST and VAST, 2007), 51 species (5%) are listed in the IUCN Redlist of threatened species (2018), and 61 species are listed in Decree No. 06/2019/ND-CP of Vietnamese Government (Appendix 2).

In the Vietnam Red Data Book's species, there are three Critically Endangered (0.29%), 17 Endangered (1.64%), and 27 Vulnerable (2.6%) species (Annex 4, [Figure 40](#)). In the IUCN Redlist's species, there are two Critically Endangered (0.19%), five Endangered (0.48%), and five Vulnerable (0.48%) (Annex 4, [Figure 41](#)). In the species of Decree No. 06/2019/ND-CP, there are six species in Group IA and 55 species in Group IIA.



Figure 40. Number of species are listed in the Vietnam Red Data Book 2007

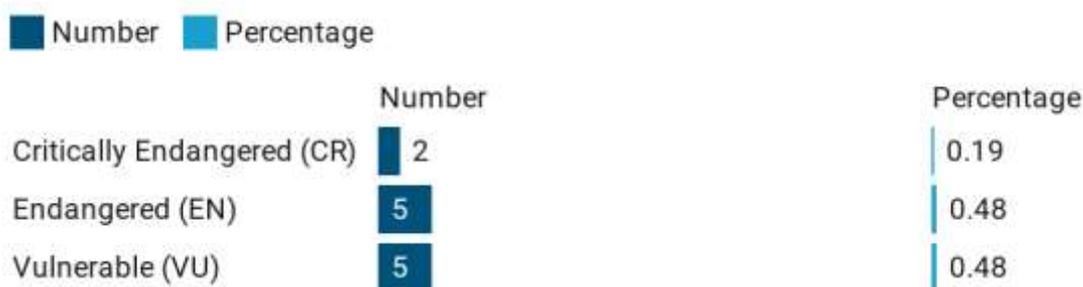


Figure 41. Number of species are listed in the IUCN Red List 2018

It is significant that 12.05% (125 species) recorded plant species in Bac Me NR were listed as priority conservation species by international and national organizations. According to the Vietnam Red Data Book (2007), 47 threatened species were found in the NR. Of which, three are Critically Endangered including one tree of conifer (*Cupressus vietnamensis*), one shrub of medicine plant (*Aucuba japonica*), and one Slipper orchid (*Paphiopedilum helenae*). Both conifer and orchid species are endermic and restricted distribution in the limestone of Northern Vietnam such as in Ha Giang and Tuyen Quang provinces. Of the 17 Endangered species, one conifer

species (*Calocedrus rupestris*), a hardwood tree (*Burretiodendron hsienmu*), three medicine plants (*Dysosma difformis*, *Paris polyphylla*, *Polygonatum punctatum*), and six orchid species (*Anoectochilus calcareus*, *A. setaceus*, *Dendrobium chrysanthum*, *D. nobile*, *Nervilia fordii*, *Paphiopedilum malipoense*) are seriously collected by local people. Although some species were listed as Vulnerable species in the book, they have highly threatened also. They are a conifer species (*Taxus chinensis*), three hardwood tree species (*Markhamia stipulate*, *Canarium pimela*, *Chukrasia tabularis*), a medicine plant (*Disporopsis longifolia*), and two orchid species (*Dendrobium fimbriatum*, *Paphiopedilum hirsutissimum*). The results are very significant when compared with 157 priority conservation species of whole Ha Giang province (Vu Anh Tai, 2014).

Of the 12 threatened species in the IUCN Redlist, three Slipper Orchid species including *Paphiopedilum helenae* (CR), *Paphiopedilum malipoense* (EN), *Paphiopedilum hirsutissimum* (VU) are always hunted by Orchid collectors in the NR because of high value. Five tree species including *Magnolia grandis* (CR), *Cupressus vietnamensis* (EN), *Calocedrus rupestris* (EN), *Taxus chinensis* (EN), *Burretiodendron hsienmu* (EN) are strong wood and are cut for house and furniture making, and trading. Other three tree species including *Goniothalamus macrocalyx* (VU), *Phoebe macrocarpa* (VU), *Woonyoungia septentrionalis* (VU), and a herb species *Siliquamomum tonkinense* (VU) are not serious threatened in the NR, but face to habitat lose.

2.4.5.3. Phia Oac – Phia Den National Park

A total of 56 species (6.81%) were recorded as threatened species and priority species for conservation. Of which, 37 species (4.5%) are recored as threatened species in national and international level, 39 (4.74) species are recorded in No. 06/2019/ND-CP of Vietnamese Government and CITES 2017 Convention for management (Annex 4).

Of the 33 threatened species, two species (0.24%) are listed as Critically Endangered (CR), 12 species (1.46%) are listed as Endangered (EN) and 19 species (2.31%) are listed as Vulnerable (VU) (Fig. 7). While 33 species (3.01%) are recognized in the Vietnam Red Data Book (MOST and VAST, 2007), only six species (0.73%) are listed in the IUCN Redlist of threatened species (2021).

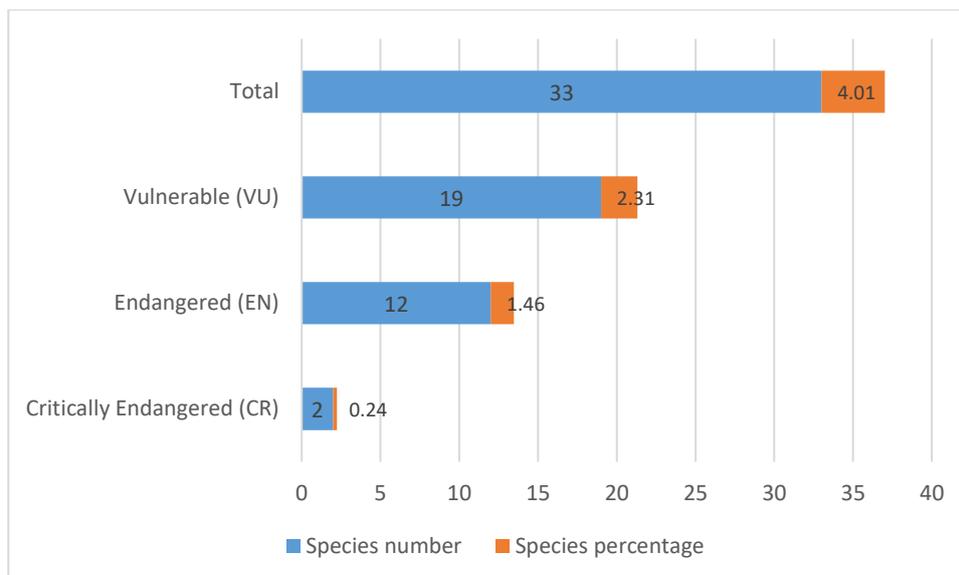


Figure 42. Number of threatened species in both nation and international level

Of the six species which were listed as Vulnerable species in the IUCN Redlist (2021), two species *Paris polyphylla*, *Siliquamomum tonkinense* are highly collected for traditional medicine. In the aspect of national threatened species, nice species including *Anoectochilus calcareus* (EN), *Anoectochilus setaceus* (VU), *Asarum caudigerum* (VU), *Codonopsis javanica* (VU), *Curculigo orchoides* (EN), *Drynaria fortunei* (EN), *Gynostemma pentaphyllum* (EN), *Homalomena pierreana* (VU), *Stephania dielsiana* (VU) are also collected for traditional medicine. Four species including *Magnolia cathcartii* (CR), *Magnolia baillonii* (VU), *Manglietia dandyi* (VU), *Phoebe macrocarpa* (VU) are hard wood and high price, therefore they usually exploit for trade. The species *Aerides falcatum* (VU) is usually collected for ornamental because of beautiful flowers. The species *Calamus nambariensis* (VU) is a strong liana, therefore it is collected for knitting rope. *Melientha suavis* (VU) is a vegetable and could be made a delicious food.

2.4.5.4. Nam Xuan Lac Species and Habitat Conservation Area

A total of 72 species were recorded as threatened species and priority species for conservation. Of which, 32 species are recorded as threatened species in national and international level, 51 species are recorded in No. 84/2021/ND-CP of Vietnamese Government (Appendix 4).

Of the 32 threatened species, 10 species are listed as Endangered (EN) and 22 species are listed as Vulnerable (VU). There is no species listed as Critically Endangered (CR). While 30 species are recognized in the Vietnam Red Data Book (MOST and VAST, 2007), only six species are listed in the IUCN Redlist of threatened species (2021) (Annex 4).

Of the six species listed in the IUCN Redlist, *Burretiodendron hsienmu* (EN) is the most illegal cut because of the high quality of timber. Remain species such as *Dipterocarpus retusus* (EN), *Cinnamomum balansae* (EN) are also highly threatened by illegal cutting. For the 30 priority species for national conservation, most of them are high value for traditional medicine such as *Dyosma difformis* (EN), *Gynostemma pentaphyllum* (EN), *Polygonatum punctatum* (EN),

Stephania dielsiana (VU), *Tinospora sagittata* (VU) and ornamental such as *Dendrobium nobile* (EN), *Dendrobium fimbriatum* (VU).

2.4.6. Linkage with other groups

2.5.6.1. GIS group

The study area maps were provided by GIS group, and cooperated in publish an international article:

- VT Pham, TT Pham, NB Trinh, SK Nguyen, MT Dao, MS Nuraliev (2021). *Cynanchum quangbinhense* (Apocynaceae: Asclepiadoideae), a new species from Vietnam, and additional information on *C. officinale*. *Taiwania* 66 (4), 459–465

2.5.6.2. Social group

The number of ethnic groups people and families, income and culture of local people provided by the Social Group (the final report of Social Group) could show some threat to the flora. That data is also an important basis for the development of community-based conservation methods.

2.5. Threats to the vegetation and flora in the study areas.

The vegetation and flora of Cham Chu NR, Bac Me NR, and Nam Xuan Lac SHCA were seriously affected by some human factors such as selective cutting of high economic value trees, harvesting non-timber forest products, and forest farming, and agriculture activities. In addition, the vegetation and flora of Phia Oac – Phia Den NP and Nam Xuan Lac SHCA were affected by road construction and mineral extraction.

2.5.1. Select cutting of high economic value trees

This negative impact occurred in most study areas, including mountainous and limestone mountains. In particular, the limestone area is more severely affected by the resilience of this type of forest which takes a long time. Wood is used by local people to make houses or trade. Many traces of logging were recorded by the research group in the fieldwork duration. The illegal activity in Cham Chu and Bac Me NRs is serious (Figure 53, Figure 54). While Cham Chu NR is strongly affected by this activity, Bac Me NR is more minor.

In particular, this impact will have a more serious on the limestone mountains at the top and near the top which place is difficult to reach for forest rangers. This habitat is home to many rare species such as *Calocedrus rupestris*, *Taxus chinensis*, *Amentotaxus yunnanensis*, and Slipper Orchids, etc. The three species most illegal cut by local people coming from both provinces, Tuyen Quang and Ha Giang, are *Ficus vasculosa*, *Burretiodendron hsienmu*, and *Taxus chinensis* (Figure 53, Figure 54). The species *Burretiodendron hsienmu* (Vietnamese: Gõ Nghiên) which species listed as Endangered species according to IUCN (2018) is strong wood and preferred for construction, house building, and furniture with high economic value. The wood of *Taxus chinensis* (Vietnamese: Thông đỏ) which species also listed as EN (IUCN, 2018) is illegally exported to China.

2.5.2. Harvesting non-timber forest products.

The exploitation of non-timber forest products in the study areas is not serious, but it is especially serious for some threatened species such as Silver lamé orchid (velvet orchid - *Anoectochilus calcareus*), Slipper orchids, *Paris polyphylla*, and other orchid species. The longevitv harvesting can lead to these species disappearing from the area. In addition, there are still impacts on the exploitation of medicinal plants, such as the exploitation of the *Dysosma difformis*, *Mahonia spp.*, *Gomphandra mollis*, *Stephania rotunda*, etc.

In large scale, the tube of *Stephania rotunda* was seriously collected by local people in Bac Me NR (~~Figure 55~~~~Figure 55~~, ~~Figure 56~~~~Figure 56~~). The species is listed in Group IIA of Government Decree No. 06/2019/ND-CP.

2.5.3. Forest farming and agriculture activities

Forest habitats at elevations of less than 700m a.s.l. at Cham Chu NR, Bac Me NR, and Nam Xuan Lac SHCA, and elevations less than 1100m a.s.l. at Phia Oac – Phia Den NP has been highly impacted by agricultural activities. This happens in most of the forest valleys of Cham Chu NR were close to local houses (Fig. 43). In Bac Me NR, these activities reach up to soil slopes, close to the top of limestone mountain (~~Figure 58~~~~Figure 58~~, ~~Figure 59~~~~Figure 59~~). The activities have divided the forest into small pieces, and therefore, the distribution of plant species is interrupted. Although this factor is serious, it concerns the livelihood of local people when they are living in the center of the two Nature Reserves. Farming such as corn or rice is the main income for the local people. In the contrast, agriculture activities in the center of Phia Oac – Phia Den NP and Nam Xuan Lac SHCA are less serious.

2.6. Recommendation for flora diversity conservation in the study areas

Results of this research clearly show that the study areas have very high flora diversity and conservation significance. Especially, those areas are habitats of some endangered species such as *Calocedrus rupestris*, *Taxus chinensis*, *Dipterocarpus retusus*, *Burretiodendron hsienmu*, or *Paphiopedilum helenae*. On the other hand, the study also shows that the natural flora in general and the populations of these species in particular in the study area are being degraded by human impacts. Some solutions below are urgently needed to protect and conserve the flora and the threatened species:

1). To improve the roles of forest rangers, Commune, and District People's Committee at the NR to manage and protect the forest.

2) To conduct education to increase awareness of local communities on biodiversity conservation. Explain to residents the importance of forest protection, plant diversity conservation as well as governmental legal regulations on forest protection and biodiversity conservation. Change the materials of house construction by cement to protect the current trees and not affect the environment.

3) To apply various measures to effectively control over forest farming in the study area. Do not expand the corn or rice farms.

4) To conduct regular forest protection patrol, forest rehabilitation, monitoring of key plant species, and other plant conservation programs.

5) To apply a community-based conservation approach in the study area, involving local villagers in various forest protection and biodiversity conservation activities; increase the

livelihood of residents through various income-raising approaches to mitigate their dependence on forest products and lands. Especially support, and encourage local people to self-food.

6) Enhancing collaboration between provincial/district authorities and their enforcement forces (forest rangers) for regular information exchange, sharing experience on forest management, and collaborative actions on combating transborder illegal logging and harvesting non-timber forest products.

2.5 Publications and products

2.5.1. Publications

Two international (ISI journal) and two national articles have been published.

1. VT Pham, TT Pham, NB Trinh, SK Nguyen, MT Dao, MS Nuraliev (2021). *Cynanchum quangbinhense* (Apocynaceae: Asclepiadoideae), a new species from Vietnam, and additional information on *C. officinale*. *Taiwania* 66 (4), 459–465

2. Pham, V. T., Trinh, N. B., Phan, K. L. & Lin, C. -W. (2019). Two new species, *Begonia dinhdui* and *B. bacmeensis* (Begoniaceae), from Vietnam. *Phytotaxa*, 427(1), 22–30. <https://doi.org/10.11646/phytotaxa.427.1.3>

3. Phan K. L., Vu, T. D., Nguyen, C. T., Pham, V. T., Trinh, N.B. (2019). A Checklist of Pteridopytes collected on Cham Chu mountains and adjacent sites. *Tap chi Sinh hoc* 41(4): 75–89. DOI: 10.15625/0866-7160/v41n4.14639

4. NB Trinh, TT Pham, VD Nguyen, VT Pham (2021). A new recorded species *Begonia wenshanensis* C.M. Hu ex C.Y. Wu & T.C. Ku (Begoniaceae) for the flora of Vietnam. *TNU Journal of Science and Technology* 226 (14), 67 – 72.

Three manuscripts have been submitted:

1. *Mitreola nahangensis* (Loganiaceae), a new species from Northern Vietnam. The manuscript had submitted to *Phytotaxa* journal.

2. Flora features of the mountainous karst in Bac Me Nature Reserve and recommendations for conservation policy” (In English). The manuscript had submitted to *Journal of Science - Tay Bac University*

3. *Aristolochia austroyunnanensis* (Aristolochiaceae), a new record for the flora of Vietnam” (In English). The manuscript had submitted to *VNU Journal of Science: Natural Sciences and Technology*.

Two manuscripts are writing

1. Elevation plant species diversity pattern in Northeastern Mountainous Region of Vietnam.

2. *Jasminanthes vietnamensis* (Apocynaceae, Asclepiadoideae) - A new species from limestone mountain Northern Vietnam

2.5.2. Guideline

A guideline for biodiversity monitoring was written.

1. Guideline for Biodiversity Investigation and Monitoring in Phia Oac – Phia Den National Park (50 pp, In Vietnamese).

2.5.3. Workshop and seminars

1. A presentation was reported in a scientific workshop: Plant Conservation Research in Mountainous Region of Northern Vietnam (The workshop was held in Ha Noi on 23, 24 October 2019 by Fauna and Flora International)

2. A presentation titled “Flora diversity of the mountainous karst in Bac Me Nature Reserve – Ha Giang province and recommendations for conservation policy” was reported in a seminar at Ton Duc Thang University on 8 July 2021.

3. A presentation titled “The diversity of Magnoliaceae in Phia Oac – Phia Den National Park, Cao Bang province” was reported in a seminar at Ton Duc Thang University on 17 July 2021

4. A presentation titled “Flora diversity of the mountainous karst in Cham Chu Nature Reserve – Tuyen Quang province” was reported in a seminar at Ton Duc Thang University on 05 August 2021

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III. PROGRESS OF YOUNG SCIENTISTS

- Mr. VU Dinh Toan has done a thesis titled diversity of Pteridophytes in Cham Chu and Bac Me Nature Reserves and graduated with Bachelor in Biology from Ha Noi University of Science

- A Ph.D. student name Nguyen Duy Hung benefited from the group in improving plant field survey techniques and data collection. Two assistants including Mss. Vu Thuy Duong and Mr. Nguyen Van Dat were trained in field survey organization, and plant investigation skills on line-transect, and plots.

- The training course on “Biodiversity Investigation and Monitoring” in Phia Oac – Phia Den National Park on 6 May 2021 was participated by eight staff of the National Park (~~Table 10~~ **Table 10**)

Table 10. List of participants in the short training course “Biodiversity Investigation and Monitoring” in Phia Oac – Phia Den National Park 6 May 2021

No.	Name	Organization
1	Hà Văn Hương	Phia Oac – Phia Den NP
2	Hoàng Thị Nha	Phia Oac – Phia Den NP
3	Trương Ngọc Long	Phia Oac – Phia Den NP
4	Lý Tồn Sển	Phia Oac – Phia Den NP
5	Nguyễn Hữu Lượng	Phia Oac – Phia Den NP
6	Đinh Thị Hợi	Phia Oac – Phia Den NP
7	Bế Thị Cúc	Phia Oac – Phia Den NP
8	Bàn Thị Hiền	Phia Oac – Phia Den NP

IV. FINANCIAL REPORT

The “Account book” has been submitted to Dropbox under name the “06 Plant Account book”. There were not any changes made to the original plan.

V. SELF-EVALUATION AND NECESSARY WORKS IN FUTURE

5.1 Describe the level of achievement of the research project concerning the Purpose mentioned in the application and the reasons why concluded so.

All the objectives of the group have been completed.

5.2 Describe the tasks remained and/or identified to achieve the Purpose.

Although the group worked very hard, this final report almost presents the results, the discussion and language are still needed to improve after review from CRES and NEF

5.3 Report problems/difficulties the group encountered, changes made/to be made to the original
The COVID-19 pandemic affected very strongly; therefore, the group have limited time to do the project.

5.4. Describe any lessons learnt (if any).

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Dr. T. Oizumi - Nagao Natural Environment Foundation, Japan

Dr. Hoang Van Thang - VNU-CRES

Dr. Vo Thanh Son - VNU-CRES

Mrs. Tran Thu Phuong - VNU-CRES

Dr. Ha Thi Thu Hue - VNU-CRES

We also sincerely thank all staff of Cham Chu NR, Bac Me NR, Phia Oac – Phia Den NP, Nam Xuan Lac SHCA, and many other residents for their valuable help during our survey in the forest of Cham Chu NR, Bac Me NR, Phia Oac – Phia Den NP, Nam Xuan Lac SHCA.

ANNEX

Annex 1. Detail of survey trips

No	Date	Content
First field trip: Cham Chu NR		
1.	24 Oct. 2018	- Morning: Move from Hanoi to Tuyen Quang province, meeting with Provincial Forest Protection Department, then move to Cham Chu NR - Afternoon: Move to Cao Duong village, meeting with local forest rangers and guiders for planning of trips or camping places
2.	25 Oct. 2018	Field survey
3.	26 Oct. 2018	Field survey
4.	27 Oct. 2018	Field survey
5.	28 Oct. 2018	Field survey
6.	29 Oct. 2018	Field survey
7.	30 Oct. 2018	Field survey
8.	31 Oct. 2018	- Morning: Group meeting, group leader will collect all data which got from the trip from the members - Afternoon: Move back to Hanoi
Second field trip: Cham Chu NR		
9.	19 April 2019	- Morning: Move from Hanoi to Tuyen Quang province, meeting with Provincial Forest Protection Department, then move to Cham Chu NR - Afternoon: Move to Cao Duong village, meeting with local forest rangers and guiders for planning of trips or camping places
10.	20 April 2019	Field survey
11.	21 April 2019	Field survey
12.	22 April 2019	Field survey
13.	23 April 2019	Field survey
14.	24 April 2019	Field survey
15.	25 April 2019	Field survey
16.	26 April 2019	- Morning: Group meeting, group leader will collect all data which got from the trip from the members - Afternoon: Move back to Hanoi
Third field trip: Bac Me NR		
17.	5 July 2019	- Morning: Move from Hanoi to Ha Giang province, then move to Bac Me NR - Afternoon: Stay in Minh Ngoc town, group meeting and discuss with local forest rangers and guiders for planning of trips or camping places
18.	6 July 2019	Field survey in Lũng Càng village, Minh Ngoc commune, preparing for going to the top of mountain
19.	7 July 2019	Go to the top of mountain at Lung Cang village and camping there
20.	8 July 2019	Field survey in the camp site
21.	9 July 2019	Go down to Lung Cang village and return to Minh Ngoc town
22.	10 July 2019	Field survey in Lạc Nông forest

23.	11 July 2019	Field survey in Lạc Nông forest
24.	12 July 2019	- Morning: Return to to Hanoi
Fourth field trip: Bac Me NR		
25.	24 Dec. 2019	- Morning: Move from Hanoi to Ha Giang province, then move to Bac Me NR - Afternoon: Stay in Minh Ngoc town, group meeting and discuss with local forest rangers and guiders for planning of trips or camping places
26.	25 Dec. 2019	Field survey in Lũng Càng village, Minh Ngoc commune, preparing for going to the top of mountain
27.	26 Dec. 2019	Go to the top of mountain at Lung Cang village and camping there
28.	27 Dec. 2019	Field survey in the camp site
29.	28 Dec. 2019	Go down to Lung Cang village and return to Minh Ngoc town
30.	29 Dec. 2019	Field survey in Lạc Nông forest
31.	30 Dec. 2019	Field survey in Lạc Nông forest
32.	31 Dec. 2019	- Morning: Return to to Hanoi
Fifth field trip: Phia Oac – Phia Den NP		
33.	03 June 2020	Move from Hanoi to Cao Bang province, then move to Phia Oac – Phia Den NP
34.	04 June 2020	Field survey in Phia Oac – Phia Den NP
35.	05 June 2020	Field survey in Phia Oac – Phia Den NP
36.	06 June 2020	Field survey in Phia Oac – Phia Den NP
37.	07 June 2020	Field survey in Phia Oac – Phia Den NP
38.	08 June 2020	Field survey in Phia Oac – Phia Den NP
39.	09 June 2020	Field survey in Phia Oac – Phia Den NP
40.	10 June 2020	Return to to Hanoi
Sixth field trip: Nam Xuan Lac SHCA		
41.	24 August 2020	Move from Hanoi to Cao Bang province, then move to Nam Xuan Lac SHCA
42.	25 August 2020	Field survey in Nam Xuan Lac SHCA
43.	26 August 2020	Field survey in Nam Xuan Lac SHCA
44.	27 August 2020	Field survey in Nam Xuan Lac SHCA
45.	28 August 2020	Field survey in Nam Xuan Lac SHCA
46.	29 August 2020	Field survey in Nam Xuan Lac SHCA
47.	30 August 2020	Field survey in Nam Xuan Lac SHCA
48.	31 August 2020	Return to to Hanoi
Seventh field trip: Phia Oac – Phia Den NP		
49.	06 May 2021	Move from Hanoi to Cao Bang province, then move to Phia Oac – Phia Den NP
50.	07 May 2021	Field survey in Phia Oac – Phia Den NP
51.	08 May 2021	Field survey in Phia Oac – Phia Den NP
52.	09 May 2021	Field survey in Phia Oac – Phia Den NP
53.	10 May 2021	Field survey in Phia Oac – Phia Den NP
54.	11 May 2021	Field survey in Phia Oac – Phia Den NP
55.	12 May 2021	Field survey in Phia Oac – Phia Den NP
56.	13 May 2021	Return to to Hanoi
Eighth field trip: Nam Xuan Lac SHCA		

57.	28 October 2021	Move from Hanoi to Cao Bang province, then move to Nam Xuan Lac SHCA
58.	29 October 2021	Field survey in Nam Xuan Lac SHCA
59.	30 October 2021	Field survey in Nam Xuan Lac SHCA
60.	31 October 2021	Field survey in Nam Xuan Lac SHCA
61.	01 November 2021	Field survey in Nam Xuan Lac SHCA
62.	02 November 2021	Field survey in Nam Xuan Lac SHCA
63.	03 November 2021	Field survey in Nam Xuan Lac SHCA
64.	04 November 2021	Return to to Hanoi

Annex 2. List of plots with GPS sampling points

Plot	Area	Longitude	Latitude	Elevation (m)
BK 1	Nam Xuan Lac SHCA	22°17'24.30"N	105°31'25.20"E	847
BK 2	Nam Xuan Lac SHCA	22°17'39.00"N	105°31'10.50"E	812
BK 3	Nam Xuan Lac SHCA	22°17'59.60"N	105°31'8.60"E	717
BK 4	Nam Xuan Lac SHCA	22°18'7.10"N	105°31'17.30"E	780
BK 5	Nam Xuan Lac SHCA	22°17'32.20"N	105°30'24.50"E	823
BK 6	Nam Xuan Lac SHCA	22°17'34.60"N	105°30'21.50"E	863
BK 7	Nam Xuan Lac SHCA	22°17'36.80"N	105°30'15.40"E	953
BK 8	Nam Xuan Lac SHCA	22°17'43.10"N	105°30'14.40"E	1067
BM 1	Bac Me NR	22 43' 18.4"	105 11'28.1"	344
BM 2	Bac Me NR	22 41' 49.2"	105 11'22.4"	710
BM 3	Bac Me NR	22 41' 52.9	105 11'20.6	658
BM 4	Bac Me NR	22 41' 58.4	105 11'08.0	504
BM 5	Bac Me NR	22 41' 55.7	105 11'15.8	593
BM 6	Bac Me NR	22 41' 45.3	105 11'31.0	868
BM 7	Bac Me NR	22 41' 42.4"	105 11'34.0"	939
BM 8	Bac Me NR	22°42'5.5"N	105°12'5.6"E	1148
BM 9	Bac Me NR	22°42'11.1"N	105°11'55.21"E	1053
BM 10	Bac Me NR	22°42'17.27"N	105°11'45.47"E	1015
BM 11	Bac Me NR	22°41'52.77"N	105°12'0.57"E	1204
BM 12	Bac Me NR	22°41'55.39"N	105°11'48.50"E	1152
BM 13	Bac Me NR	22°42'16.10"N	105°11'35.70"E	927
BM 14	Bac Me NR	22°42'27.89"N	105°11'36.68"E	758
BM 15	Bac Me NR	22°45'3.6"N	105°13'14.9"E	453
BM 16	Bac Me NR	22°45'0.6"N	105°13'16.8"E	520
BM 17	Bac Me NR	22°44'41.62"N	105°13'15.31"E	713
BM 18	Bac Me NR	22°44'44.6"N	105°13'6.1"E	654
BM 19	Bac Me NR	22°45'14.07"N	105°13'7.83"E	331
CB 1	Phia Oac – Phia Den NP	22°36'57.7"N	105°51'48.70"E	1914
CB 2	Phia Oac – Phia Den NP	22°37'19"N	105°51'48.3"E	1826
CB 3	Phia Oac – Phia Den NP	22°37'0.2"N	105°51'58.8"E	1777
CB 4	Phia Oac – Phia Den NP	22°36'20.4"N	105°52'8.8"E	1644
CB 5	Phia Oac – Phia Den NP	22°36'19"N	105°51'52.9"E	1524
CB 6	Phia Oac – Phia Den NP	22°36'53.2"N	105°52'7.9"E	1801
CB 7	Phia Oac – Phia Den NP	22°36'53.1"N	105°52'12.2"E	1740
CB 7	Phia Oac – Phia Den NP	22°36'53.1"N	105°52'12.2"E	1740
CB 8	Phia Oac – Phia Den NP	22°36'53.0"N	105°52'24.4"E	1630
CB 9	Phia Oac – Phia Den NP	22°36'54.4"N	105°52'29.6"E	1549
CB 10	Phia Oac – Phia Den NP	22°36'50.1"N	105°52'35.2"E	1470

CB 11	Phia Oac – Phia Den NP	22°36'53.2"N	105°52'46.4"E	1327
CB 12	Phia Oac – Phia Den NP	22°36'54.4"N	105°52'52.5"E	1245
CB 13	Phia Oac – Phia Den NP	22°35'40"N	105°53'11.4"E	1280
CB 14	Phia Oac – Phia Den NP	22°35'39.9"N	105°53'24.4"E	1344
CB 15	Phia Oac – Phia Den NP	22°37'23.8"N	105°52'45.1"E	1152
CB 16	Phia Oac – Phia Den NP	22°33'22.9"N	105°52'26.0"E	1145
CC 01	Cham Chu NR	22 16 49.7	104 59 57	890
CC 02	Cham Chu NR	22 16 51.7	105 00 06.7	904
CC 03	Cham Chu NR	22 16 47.4	105 00 18.3	945
CC 04	Cham Chu NR	22 16 44.2	105 00 18.6	1003
CC 05	Cham Chu NR	22 16 46	105 00 28.4	1056
CC 06	Cham Chu NR	22 17 03	105 00 12.3	1116
CC 07	Cham Chu NR	22 17 14	104 59 39.5	832
CC 07	Cham Chu NR	22 17 14	104 59 39.5	832
CC 08	Cham Chu NR	22 16 46.2	104 59 29	736
CC 09	Cham Chu NR	22 16 36.2	104 59 23.9	772
CC 10	Cham Chu NR	23 17 10.2	104 59 16.3	667
CC 11	Cham Chu NR	23 17 17.4	104 59 05.8	645

Annex 3. Checklist of plant species

Scientific name	Vietnamese name	Family	Plant habit	Use	Cham Chu	Bac Me	Phia Oac	Nam Xuan Lac
<i>Adiantum cappinus-veneris</i> Linn		Adiantaceae	Shrub	Orn			x	
<i>Adiantum caudatum</i> L.	Đuôi chồn	Adiantaceae	Shrub	Orn	x			x
<i>Adiantum flabellulatum</i> L.	Dây vót	Adiantaceae	Shrub	Orn	x			
<i>Cheilanthes farinosa</i> Kaulf.	Thần mô bột	Adiantaceae	Shrub		x			
<i>Hemionitis arifolia</i> T. Moore	Ráng hoạn xỉ	Adiantaceae	Shrub		x			x
<i>Monachosorum henryi</i> H.Christ.	Mô na henry	Adiantaceae	Shrub		x			
<i>Onychium lucidum</i> Spreng.	Đế xỉ suốt	Adiantaceae	Shrub		x			
<i>Pityrogramma calomenalos</i> Link	Ráng cà lồ	Adiantaceae	Shrub		x			
<i>Pityrogramma calomenalos</i> Link	Ráng cà lồ	Adiantaceae	Herb					x
<i>Angiopteris yunnanensis</i> Hieron		Angiopteridaceae	Shrub	Orn			x	
<i>Asplenium antrophyoides</i> H.Christ	Ráng canxi bầu dục	Aspleniaceae	Shrub	Orn	x			
<i>Asplenium crinicaule</i> Hance		Aspleniaceae	Herb				x	
<i>Asplenium ensiforme</i> Wall. ex Hook.f.		Aspleniaceae	Herb				x	
<i>Asplenium nidus</i> L.	Tổ điều	Aspleniaceae	Epiph.	Orn	x		x	x
<i>Asplenium obscurum</i> Blume	Ráng canxi mờ	Aspleniaceae	Epiph.	Orn	x			
<i>Asplenium unilaterale</i> Lam.	Ráng canxi một bên	Aspleniaceae	Epiph.	Orn	x			x
<i>Blechnum orientale</i> L.	Dáng dừa đông	Blechnaceae	Herb	Orn	x		x	x
<i>Brainea insignis</i> (Hook.) J. Sm.		Blechnaceae	Shrub				x	
<i>Cibotium barometz</i> (L.) J.Sm.	Cầu tích	Cibotiaceae	Herb	Med	x			x

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<i>Cyathea chinensis</i> Copel.	Ráng tiên tọa trung quốc	Cyatheaceae	Herb	Orn	x		x	
<i>Cyathea contaminans</i> Cop	Quyết thân gỗ	Cyatheaceae	Herb	Orn	x			
<i>Cyathea gigantea</i> Holttum	Ráng tiên tọa khổng lồ	Cyatheaceae	Herb	Orn	x		x	x
<i>Davallia divaricata</i> Blume	Cút đồng	Davalliaceae	Herb		x			x
<i>Davallia lorrainii</i> Hance		Davalliaceae	Shrub				x	
<i>Hypolepis tenuifolia</i> Bernha.	Ráng ha lân lá nhỏ	Dennstaedtiaceae	Herb		x			
<i>Lindsaea javanensis</i> Blume	Ráng liên sơn java	Dennstaedtiaceae	Herb		x			x
<i>Lindsaea lucida</i> Blume	Ráng liên sơn sáng	Dennstaedtiaceae	Herb		x			
<i>Microlepia hookeriana</i> C.Presl.	Ráng li vân hooker	Dennstaedtiaceae	Herb		x			x
<i>Microlepia marginata</i> C.Chr.	Ráng li vân bì	Dennstaedtiaceae	Herb		x			
<i>Microlepia spelunca</i> T. Moore	Ráng li vân to	Dennstaedtiaceae	Herb		x			
<i>Arachniodes assamica</i> Ohwi	Ráng thù xỉ át-sam	Dryopteridaceae	Herb		x			x
<i>Arachniodes hasseltii</i> (Bl.) Ching.		Dryopteridaceae	Shrub				x	
<i>Cibotium barometz</i> (L.) J. Sm.		Dicksoniaceae	Shrub	Med			x	
<i>Ctenitis decurrentipinnata</i> (Ching) Ching		Dryopteridaceae	Shrub				x	
<i>Diplazium lanceum</i> (Thunb.) C. Presl		Dryopteridaceae		Med			x	

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<i>Dipteris chinensis</i> C.Chr.		Dipteridaceae	Shrub				x	
<i>Polystichopsis chinensis</i> Holttum	Ráng thù xỉ trung quốc	Dryopteridaceae	Herb		x			x
<i>Polystichum chingae</i> Ching		Dryopteridaceae					x	
<i>Tectaria yunnanensis</i> (Baker) Ching		Dryopteridaceae	Shrub				x	
<i>Equisetum ramosissimum</i> Desf.	Cỏ tháp bút	Equisetaceae	Herb	Med			x	x
<i>Dicranopteris linearis</i> Underw.	Guột	Gleicheniaceae	Herb		x		x	x
<i>Dicranopteris dichotoma</i> (Thunb.) Bernh.		Gleicheniaceae	Shrub				x	
<i>Crepidomanes bipunctatum</i> Copel.	Ráng song điểm	Hymenophyllaceae	Herb		x			x
<i>Crepidomanes minutus</i> Blume	Thu mọc nhỏ	Hymenophyllaceae	Herb		x			
<i>Hymenophyllum barbatum</i> (Bosch) Baker		Hymenophyllaceae	Liana				x	
<i>Hymenophyllum oxydon</i> Bak.	Mạc diệp song điểm	Hymenophyllaceae	Herb		x			
<i>Trichomanes cystaseiroides</i> H.Christ ex Tardieu & C.Chr.	Mao diệp song	Hymenophyllaceae	Herb		x			x
<i>Lycopodium complanatum</i> L.	Thạch tùng dẹp	Lycopodiaceae	Epiph.	Med	x	x	x	x
<i>Huperzia fordii</i> (Baker) Holub		Lycopodiaceae	Shrub	Med			x	
<i>Huperzia serrata</i> (Thunb.) Trevis.		Lycopodiaceae	Shrub	Med			x	
<i>Huperzia squarrosa</i> (G. Forst.) Trevis.	Thạch tùng vẩy	Lycopodiaceae	Epiph.			x		
<i>Lycopodiella cernua</i> (L.) Pic.		Lycopodiaceae	Shrub				x	
<i>Lycopodium clavatum</i> L.		Lycopodiaceae	Shrub				x	

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<i>Lygodium flexuosum</i> (L.) Sw.		Lygodiaceae	Liana				x	
<i>Angiopteris evecta</i> (G. Forst.) Hoffm.	Móng ngựa	Marattiaceae	Herb		x			
<i>Angiopteris yunnanensis</i> Hieron	Hiền dục vân nam	Marattiaceae	Herb		x			x
<i>Archangiopteris tonkinensis</i> Ching.	Cổ hiền bắc bộ	Marattiaceae	Herb		x			
<i>Marsilea minuta</i> L.		Marsiliaceae	Shrub	Med, Edi			x	
<i>Marsilea quadrifolia</i> L.	Rau dệu bốn lá	Marsiliaceae	Herb	Med		x	x	x
<i>Nephrolepis cordifolia</i> (L.) C. Presl	Ráng	Nephrolepidaceae	Herb	Med,Orn	x			x
<i>Oleandra musifolia</i> (Blume) C.Presl		Oleandraceae	Shrub				x	
<i>Osmunda japonica</i> Thunb.		Osmundaceae	Shrub				x	
<i>Aglaomorpha coronans</i> Copel.	Ráng long cước	Polypodiaceae	Herb	Med,Orn	x		x	x
<i>Colysis insignis</i> J.Sm.	Vì quần hancock	Polypodiaceae	Herb		x			
<i>Colysis wrightii</i> Ching.	Ráng cổ lý wrihgt	Polypodiaceae	Herb		x			
<i>Drynaria bonii</i> H.Christ	Cột toái bồ bon	Polypodiaceae	Epiph.	Med	x			x
<i>Drynaria bonii</i> H.Christ	Cột toái bồ bon	Polypodiaceae	Epiph.	Med				
<i>Drynaria fortunei</i> (Kuntze ex Mett.) J. Smith		Polypodiaceae	Epiph.	Med			x	
<i>Phymatosorus nigrescens</i> (Bl.) Pic.-Ser.		Polypodiaceae	Shrub				x	
<i>Polypodium bauretii</i> C.Chr. & Tard.	Ráng đa túc bourret	Polypodiaceae	Herb		x			
<i>Polypodium fasciatum</i> C.Presl.	Ráng đa túc bò	Polypodiaceae	Herb		x			

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<i>Pseudodrynaria coronans</i> (Wall. ex Mett.) Ching		Polypodiaceae	Shrub				x	
<i>Pyrrhosia tonkinensis</i> Ching		Polypodiaceae	Shrub				x	
<i>Pyrrhosia lanceolata</i> Farw.	Ráng hỏa mạc thon	Polypodiaceae	Herb		x			
<i>Pyrrhosia longissima</i> Pic. & Ser.	Ráng hỏa mạc lá dài	Polypodiaceae	Herb		x			
<i>Pyrrhosia subfurfurascea</i> Ching	Ráng hỏa mạc cám	Polypodiaceae	Herb		x			x
<i>Psilotum complanatum</i> Sw.	Loã tùng dẹp	Psilotaceae	Herb	Med	x	x		x
<i>Psilotum nudum</i> (L.) Griseb.		Psilotaceae	Shrub	Med			x	
<i>Antrophyum callifolium</i> Blume		Pteridaceae	Herb				x	
<i>Pteris biaurita</i> L.	Chân xỉ hai tai	Pteridaceae	Herb	Med	x			
<i>Pteris cadieri</i> H.Christ	Ráng chân xỉ cadiere	Pteridaceae	Herb	Med	x			
<i>Pteris cretica</i> L.	Sẹo gà	Pteridaceae	Herb	Med	x		x	x
<i>Pteris decrescens</i> H.Christ	Chân xỉ eo	Pteridaceae	Herb	Med	x			x
<i>Pteris deltodon</i> Baker.	Ráng tam giác	Pteridaceae	Herb	Med	x			
<i>Pteris ensiformis</i> Burm.f.	Ráng hình gươm	Pteridaceae	Herb	Med,Edi,Orn	x			
<i>Pteris excelsa</i> Gaud.		Pteridaceae	Shrub	Orn			x	
<i>Pteris linearis</i> Poir.		Pteridaceae	Cr	Orn			x	
<i>Pteris longipes</i> D.don	Ráng cuống dài	Pteridaceae	Herb	Med	x			
<i>Pteris semipinnata</i> L.	Ráng chân xỉ lược	Pteridaceae	Herb	Med,Orn	x			

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<i>Pteris vittata</i> L.	Ráng chân xỉ có sọc	Pteridaceae	Liana	Med	x			x
<i>Vittaria elongata</i> Sw.	Râu rồng	Pteridaceae	Epiph.					x
<i>Lygodium conforme</i> C.Chr.	Bồng bông lá to	Schizaeaceae	Liana		x			x
<i>Lygodium japonicum</i> (Thunb.) Sw.		Schizaeaceae	Shrub	Med	x		x	
<i>Lygodium scandens</i> Sw		Schizaeaceae	Vine	Med	x		x	x
<i>Lygodium subareolatum</i> Christ.	Bồng bông ô	Schizaeaceae	Liana	Med	x			
<i>Selaginella chrysocaulos</i> Spring	Quyên bá thân vàng	Selaginellaceae	Herb		x			
<i>Selaginella bififormis</i> A.Br. ex Kuhn		Selaginellaceae	Shrub				x	
<i>Selaginella chrysocaulos</i> Spring	Quyên bá thân vàng	Selaginellaceae	Herb			x	x	
<i>Selaginella delicatula</i> Alston	Quyên bá	Selaginellaceae	Herb		x			
<i>Selaginella nipponica</i> Franch. & Sav.		Selaginellaceae	Hp				x	
<i>Selaginella willdenowii</i> Baker	Quyên bá willdenowii	Selaginellaceae	Herb		x			
<i>Tectaria decurrens</i> (C. Presl) Copel.		Tectariaceae	Shrub				x	
<i>Tectaria zeylanica</i> (Houtt.) Sledge		Tectariaceae	Herb				x	
<i>Metathelypteris flaccida</i> Ching	Ráng thư dục mềm	Thelypteridaceae	Herb		x			x
<i>Abacopteris acuminatus</i> (Houtt) Nakai		Thelypteridaceae	Shrub				x	
<i>Cyclosorus parasiticus</i> (L.) Farw.		Thelypteridaceae	Shrub	Orn			x	

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<i>Pneumatopteris truncata</i> Holttum	Ráng khí xỉ cắt ngang	Thelypteridaceae	Herb	Med	x			
<i>Pronephrium simplex</i> (Hook.)Holtt		Thelypteridaceae	Shrub				x	
<i>Pronephrium megacuspis</i> Holttum	Ráng tiền thân mũi to	Thelypteridaceae	Herb	Med	x			
<i>Pronephrium triphylla</i> Holttum	Ráng thư dục ba lá	Thelypteridaceae	Herb	Med	x			x
<i>Stenogramma griffithii</i> (T.Morre) K.Iwats		Thelypteridaceae	Shrub				x	
<i>Thelypteris flaccida</i> (Blume) Ching		Thelypteridaceae	Shrub				x	
<i>Thelypteris tonkinensis</i> (C. Chr.) Ching		Thelypteridaceae	Shrub				x	
<i>Antrophyum callifolium</i> Blume	Lưỡi beo lá đẹp	Vittariaceae	Herb	Med	x			
<i>Antrophyum vittaroides</i> Baker	Ráng lưỡi beo hẹp	Vittariaceae	Epiph.	Med	x			
<i>Hemionitis arifolia</i> (Burm.f.) T. Moore		Vittariaceae	Shrub				x	
<i>Vittaria elongata</i> Sw.	Râu rồng	Vittariaceae	Epiph.	Med	x		x	
<i>Diplazium stenochlamys</i> C.Chr.	Ráng song quần bao hẹp	Woodsiaceae	Herb	Med	x			
<i>Diplazium subsinuatatum</i> Tagawa	Ráng song quần ngoằn ngoèo	Woodsiaceae	Herb	Med	x			x
<i>Calocedrus rupestris</i> Aver., T.H.Nguyên & P.K.Lộc	Bách xanh núi đá	Cupressaceae	Tree	Woo	x	x		

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<i>Cupressus vietnamensis</i> (Farjon & T.H.Nguyên) Silba	Bách vàng	Cupressaceae	Tree			x		
<i>Cycas diannanensis</i> Z.T.Guan & G.D.Tao	Tuế đá vôi	Cycadaceae	Tree	Orn	x			x
<i>Gnetum latifolium</i> Blume	Gắm lá rộng	Gnetaceae	Liana	Med,Edi	x	x		x
<i>Gnetum montanum</i> Markgr.	Gắm núi	Gnetaceae	Liana	Med,Edi	x	x	x	x
<i>Pinus fenzeliana</i> Hand.-Mazz.	Thông pà cò	Pinaceae	Tree	Woo	x	x		
<i>Dacrycarpus imbricatus</i> (Blume) de Laub.	Thông nàng	Podocarpaceae	Tree	Woo	x	x		x
<i>Nageia fleuryi</i> de Laub.	Kim giao	Podocarpaceae	Tree	Woo	x	x		
<i>Podocarpus neriifolius</i> D.Don	Thông tre lá dài	Podocarpaceae	Tree	Med,Woo,Orn	x	x	x	x
<i>Amentotaxus argotaenia</i> Pilg.	Dẻ tùng sọc trắng	Taxaceae	Tree	Med,Woo,Edi	x			
<i>Taxus chinensis</i> (Pilg.) Rehd.	Thông đỏ bắc	Taxaceae	Tree	Woo	x	x		
<i>Amentotaxus argotaenia</i> Pilg.	Dẻ tùng sọc trắng	Taxaceae	Tree			x		
<i>Barleria lupulina</i> Lindl.-Gaidk.		Acanthaceae	Herb	Med			x	
<i>Hygrophila incata</i> Ness	Đình lịnh lông xám	Acanthaceae	Herb		x	x		x
<i>Justica glabra</i> Koen. ex Roxb.		Acanthaceae	Herb	Med			x	
<i>Justica multinodis</i> R. Ben.		Acanthaceae	Herb	Med			x	
<i>Justicia aequalis</i> Benoist	Xuân tiết trắng	Acanthaceae	Herb		x	x		
<i>Justicia glomerulata</i> Benoist	Xuân tiết chụm	Acanthaceae	Herb	Med	x	x	x	x
<i>Justicia procumbens</i> L.	Xuân tiết bò	Acanthaceae	Herb	Med	x	x		x
<i>Lepidagathis hyalina</i> Ness	Lân chùy thấu quang	Acanthaceae	Herb	Med	x	x		

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<i>Lepidagathis incurva</i> Buch. - Ham. Ex D.Don	Lân chùy thầu cong	Acanthaceae	Herb	Med	x	x		x
<i>Lepidagathis purpuricaulis</i> Nees		Acanthaceae	Herb	Edi, Med			x	
<i>Phlogacanthus pauciflorus</i> J.B.Imlay	Hoả rô hoa có lông	Acanthaceae	Herb	Med	x	x		
<i>Pseuderanthemum tonkinensis</i> R.Ben.	Cây xuân hoa	Acanthaceae	Herb	Med	x	x		
<i>Rungia tonkinensis</i> Benoît.		Acanthaceae	Herb	Orn			x	
<i>Staurogyne diandra</i> E. Hossain	Nhụy thập	Acanthaceae	Shrub					x
<i>Staurogyne petelotii</i> Benoist	Nhụy thập petelot	Acanthaceae	Shrub	Med				x
<i>Strobilanthes acrocephalus</i> T.Anders		Acanthaceae	Herb				x	
<i>Strobilanthes apricus</i> T.Anderw. Ex Benth.	Chùy hoa sáng	Acanthaceae	Herb	Med	x	x		
<i>Strobilanthes atropurpureus</i> Nees		Acanthaceae	Herb				x	
<i>Strobilanthes brunescens</i> Benoist	Chùy hoa nâu	Acanthaceae	Herb	Med	x	x	x	
<i>Strobilanthes cystolithigera</i> Lindau	Chùy hoa bào thạch	Acanthaceae	Herb	Med	x	x		
<i>Strobilanthes echinata</i> Nees	Chùy hoa nhím	Acanthaceae	Herb	Med	x	x		x
<i>Strobilanthes flaccidifolius</i> Ness (S. cusia (Ness) Imlay		Acanthaceae	Herb			x		
<i>Strobilanthes patulus</i> Benoist	Chùy hoa rộng	Acanthaceae	Herb	Med	x	x		
<i>Strobilanthes pentstemonoides</i> T. Anders.		Acanthaceae	Herb					
<i>Thunbergia fragrans</i> Roxb.	Cát đằng thơm	Acanthaceae	Liana	Med,Orn	x	x		
<i>Thunbergia grandiflora</i> Roxb.	Bông xanh	Acanthaceae	Liana	Med,Orn			x	x
<i>Acer davidii</i> Franch.		Aceraceae	Tree	Orn, Woo			x	
<i>Acer flabellatum</i> Rehd		Aceraceae	Tree	Orn, Woo			x	
<i>Acer laurinum</i> Hassk.	Thích lá quế	Aceraceae	Tree	Orn, Woo	x	x	x	x

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<i>Acer oblongum</i> Wall. ex DC.		Aceraceae	Tree	Orn, Woo			x	
<i>Acer oliveranum</i> Pax	Thích năm thù	Aceraceae	Tree	Woo, Orn	x			
<i>Acer oliveranum</i> Pax	Thích năm thù	Aceraceae	Tree	Woo		x		x
<i>Acer tonkiense</i> var. <i>fenzelianum</i> (Hand.-Mazz.) E. Murr	Thích ba thù	Aceraceae	Tree	Woo, Orn, Woo	x	x	x	
<i>Acer tonkinensis</i> Lecomte	Thích bắc bộ	Aceraceae	Tree	Woo				x
<i>Acer wilsonii</i> Rehd	Phong wilson	Aceraceae	Tree	Orn	x	x		
<i>Acorus calamus</i> L.	Bồ bồ núi	Acoraceae	Herb	Med, Orn, Edi	x	x		x
<i>Acorus gramineus</i> Soland.	Thạch xương bồ nhỏ	Acoraceae	Aquatic	Med,Orn				x
<i>Acorus verus</i> Houtt.		Acoraceae	Herb	Edi, Med			x	
<i>Actinidia chinensis</i> Planch.		Actinidiaceae	Tree	Edi			x	
<i>Actinidia petelotii</i> Diels		Actinidiaceae	Tree	Edi			x	
<i>Saurauia nepaulensis</i> DC.		Actinidiaceae	Tree	Edi			x	
<i>Saurauia roxburghii</i> Wall	Sồ dả roxbourgh.	Actinidiaceae	Tree	Woo	x	x		x
<i>Saurauia tristyla</i> DC.	Sồ dả nhọn	Actinidiaceae	Tree	Woo	x	x	x	x
<i>Viburnum lutescens</i> Blume		Adoxaceae	Tree				x	
<i>Alangium chinense</i> (Lour.) Rehd.		Alangiaceae	Tree	Woo, Med			x	x
<i>Alangium kurzii</i> Craib	Thôi ba lông	Alangiaceae	Tree	Woo, Med				
<i>Sagittaria sagittifolia</i> L		Alismataceae	Herb	Med, Anv			x	
<i>Sagittaria trifolia</i> L. var. <i>angustifolia</i> Kitagawa	Trạch tả	Alismataceae	Herb	Med, Orn	x	x		
<i>Altingia yunnanensis</i> Rehd. & Wils		Altingiaceae	Tree	Woo, Edi, Bio			x	
<i>Liquidambar formosana</i> Hance		Altingiaceae	Tree	Woo, Edi, Bio			x	
<i>Achyranthes aspera</i> L.	Cỏ xước	Amaranthaceae	Herb	Med	x	x	x	x
<i>Aerva sanguinolenta</i> Blume	Mao vĩ đỏ	Amaranthaceae	Herb	Med	x	x	x	
<i>Alternanthera repens</i> (L.) Kuntze		Amaranthaceae	Herb	Anv			x	

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<i>Alternanthera sessilis</i> A. DC.	Rau rệu không cuống	Amaranthaceae	Herb	Anv	x	x		x
<i>Amaranthus lividus</i> L.		Amaranthaceae	Herb	Edi, Med			x	
<i>Amaranthus spinosus</i> L.	Dền gai	Amaranthaceae	Herb	Edi, Med, Anv			x	x
<i>Amaranthus tricolor</i> L.	Dền canh	Amaranthaceae	Herb	Edi, Med, Orn				x
<i>Celocia argentea</i> var. <i>cristata</i> Kuntze	Mào gà trắng	Amaranthaceae	Herb	Med, Orn	x	x		x
<i>Celocia argentea</i> var. <i>plumosa</i> Bakh.f.	Mào gà tua	Amaranthaceae	Herb	Med, Orn	x	x		
<i>Celosia argentea</i> L.		Amaranthaceae	Herb	Orn			x	
<i>Cyathula prostrata</i> Blume	Cỏ xước giả	Amaranthaceae	Herb	Med	x	x		x
<i>Amaryllis belladonna</i> Swelt.		Amaryllidaceae	Herb	Orn			x	
<i>Crinum asiaticum</i> L.	Náng hoa trắng	Amaryllidaceae	Herb	Med, Orn	x	x		x
<i>Allospodias lakonensis</i> (Pierre) Stapf		Anacardiaceae	Tree	Orn, Woo, Edi			x	
<i>Choerospondias axillaris</i> (Roxb.) Burt. & Hill	Xoan nhừ	Anacardiaceae	Tree	Woo, Edi, Med	x	x	x	x
<i>Dracotomelon duperreanum</i> Pierre	Sầu	Anacardiaceae	Tree	Edi, Med, Woo, Orn	x	x		x
<i>Drimcarpus racemosus</i> Hook. f. in Benth. & Hook. f	Tân quả tât	Anacardiaceae	Tree	Poi, Woo	x	x		x
<i>Mangifera foetida</i> Lour.	Muôm	Anacardiaceae	Tree	Edi, Med	x	x		x
<i>Mangifera indica</i> L.	Xoài	Anacardiaceae	Tree	Edi	x	x		
<i>Pistacia weinmannifolia</i> Pranch.	Bít tât	Anacardiaceae	Tree	Woo	x	x		x
<i>Rhus javanica</i> var. <i>roxburghii</i> D.Chandra	Dã sơn	Anacardiaceae	Tree	Bio	x	x		x
<i>Rhus succedan</i> L.	Sơn lặc	Anacardiaceae	Tree	Med, Woo, Bio	x	x		x
<i>Semecarpus tonkinensis</i> Lecomte	Sung bắc bộ	Anacardiaceae	Tree	Poi	x	x		

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<i>Spondias lakonensis</i> Pierre	Dâu da xoan	Anacardiaceae	Tree	Med, Woo, Edi, Orn, Bio	x	x		x
<i>Toxicodendron succedanea</i> (L.) Moldenke		Anacardiaceae	Tree	Bio			x	
<i>Alphonsea philastreana</i> Pierre ex Finet & Gagnep.	An phong nhiều trái	Annonaceae	Tree	Med, Woo	x	x		x
<i>Alphonsea squamosa</i> Finet et Gagnep		Annonaceae	Tree	Woo			x	
<i>Alphonsea tonkinensis</i> DC.	Thâu linh	Annonaceae	Tree	Woo	x	x		
<i>Annona squamosa</i> L.	Na	Annonaceae	Tree	Edi, Med	x	x		
<i>Artabotrys hexapetalus</i> Bhad.	Móng rồng công chúa	Annonaceae	Liana	Orn	x	x		x
<i>Artabotrys petelotii</i> Merr.	Móng rồng bắc giang	Annonaceae	Liana	Orn	x	x		
<i>Dasymaschalon rostratum</i> Merr. & Chun		Annonaceae	Shrub	Med	x	x	x	
<i>Desmos chinensis</i> Lour.		Annonaceae	Shrub	Med			x	
<i>Desmos pedunculatus</i> Ban.	Hoa dẻ cánh to	Annonaceae	Shrub	Med	x	x		
<i>Fissistigma balansae</i> Merr.	Lãnh công ba vì	Annonaceae	Liana	Med	x	x		x
<i>Fissistigma bracteolatum</i> Chatt.	Lãnh công nhiều lá bắc	Annonaceae	Liana	Med	x	x		
<i>Fissistigma maclurei</i> Merr.		Annonaceae	Liana	Med			x	
<i>Fissistigma pallens</i> Merr.	Lãnh công rọt	Annonaceae	Liana	Med	x	x		
<i>Fissistigma villosissimum</i> Merr.	Công chúa lông mượt	Annonaceae	Liana	Med	x	x	x	
<i>Goniothalamus macrocalyx</i> Bân	Màu cau trắng	Annonaceae	Tree	Woo, Med	x	x		x
<i>Melodorum fruticosum</i> Lour.		Annonaceae	Tree	Med			x	
<i>Milium balansae</i> Finet et Gagnep		Annonaceae	Tree	Woo	x	x	x	x
<i>Milium sinensis</i> Fin. & Gagnep.	Song môi tàu	Annonaceae	Tree	Med	x	x		x

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<i>Miliusa sp.</i>	Mãi liểu	Annonaceae	Tree		x			
<i>Mitrella mesnyi</i> Ban	Vú bò	Annonaceae	Tree	Edi				
<i>Mitrella mesnyi</i> Ban	Vú bò	Annonaceae	Tree					
<i>Mitrella mesnyi</i> Ban	Vú bò	Annonaceae	Tree	Edi	x	x		x
<i>Mitrephora calcarea</i> Diels ex Ast	Mạo đài móng	Annonaceae	Tree	Woo	x	x		
<i>Polyalthia ceraoides</i> (Roxb.) Bedd.		Annonaceae	Tree	Woo			x	
<i>Polyalthia jucunda</i> Fin. & Gagnep.	Mã trình	Annonaceae	Tree	Woo	x			
<i>Polyalthia lauii</i> Merr.	Nhóc lá to	Annonaceae	Tree	Woo	x	x		x
<i>Polyalthia parviflora</i> Ridl.	Nhọc hoa nhỏ	Annonaceae	Tree	Woo	x	x		x
<i>Polyalthia thorelii</i> Finet & Gagnep.	Quần đầu thorell	Annonaceae	Tree	Woo	x	x		
<i>Uvaria calamistrata</i> Hance	La men	Annonaceae	Liana	Med	x	x		
<i>Uvaria cordata</i> (Dun.) Wall. ex Alston	DỪ dẻ	Annonaceae	Liana	Med			x	x
<i>Uvaria fufa</i> Blume	Bù dẻ hoa đỏ	Annonaceae	Liana	Med	x	x		
<i>Uvaria petelotii</i> Exell	Bồ quả petelot	Annonaceae	Liana	Med	x	x		x
<i>Xylopia pierrei</i> Hance	Giền trắng	Annonaceae	Tree	Woo				x
<i>Xylopia vielana</i> Pierre		Annonaceae	Tree	Woo			x	
<i>Anethum graveolens</i> L.	Thìa là	Apiaceae	Herb	Edi, Med	x	x		
<i>Centella asiatica</i> Urb.	Rau má	Apiaceae	Herb	Edi, Med	x	x	x	x
<i>Cnididum monnierii</i> Cusson	Giần sàng	Apiaceae	Herb	Edi, Med	x	x	x	x
<i>Coriandrum sativum</i> L.	Rau mùi	Apiaceae	Herb	Edi, Med	x	x		
<i>Eryngium foetidum</i> L.	Ngò tàu	Apiaceae	Herb	Edi, Med	x	x		
<i>Hydrocotyle javanica</i> Thunb.	Rau má java	Apiaceae	Herb	Edi, Med	x	x	x	x
<i>Hydrocotyle nepalensis</i> Hook.		Apiaceae	Herb	Edi, Med			x	
<i>Lilaeopsis chinensis</i> (L.) Kuntze		Apiaceae	Herb	Edi, Med			x	
<i>Oenanthe dielsii</i> Boissieu	Cần diels	Apiaceae	Herb	Edi, Med	x	x	x	x
<i>Oenanthe javanica</i> (Blume) DC.		Apiaceae	Herb	Edi, Med	x	x	x	
<i>Sanicula elata</i> Buch.-Ham. ex D. Don		Apiaceae	Herb	Edi, Med			x	

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<i>Alstonia scholaris</i> R.Br.	Cây sữa	Apocynaceae	Tree	Orn, Woo	x	x		x
<i>Alyxia pisiformis</i> Pierre ex Pitard		Apocynaceae	Liana				x	
<i>Bousigonia angustifolia</i> Pierre & Spire	Bù liêu lá hẹp	Apocynaceae	Liana	Med	x	x		x
<i>Bousigonia mekongensis</i> Pierre	Bù liêu cừu long	Apocynaceae	Liana	Med				x
<i>Cryptolepis sinensis</i> (Lour.) Merr.	Ấn lân	Apocynaceae	Liana	Med	x	x		x
<i>Cynanchum officinale</i> (Hemsl.) Tsiang & Zhang		Apocynaceae	Liana	Med			x	
<i>Dischidia acuminata</i> Cost.		Apocynaceae	Liana	Orn			x	
<i>Dischidia nummularia</i> R.Br.	Song ly tiền	Apocynaceae	Liana	Med	x	x		x
<i>Dischidia tonkinensis</i> Cost.	Song ly bắc bộ	Apocynaceae	Epiph.		x	x		
<i>Heterostemma brownii</i> Hayata	Dị hùng Brownil	Apocynaceae	Liana		x	x		
<i>Hoya carnososa</i> R.Br.	Hoa sao	Apocynaceae	Liana	Orn				x
<i>Hoya fusca</i> Wall	Hồ hoa sâm	Apocynaceae	Herb			x		
<i>Hoya griffithii</i> Hook.f.	Cầm cù khùng long	Apocynaceae	Epiph.			x		
<i>Hoya javanica</i> Boerl.	Cầm cù java	Apocynaceae	Epiph.			x		
<i>Hoya obovata</i> Decne.	Hồ da xoan	Apocynaceae	Liana	Orn				x
<i>Hoya tamdaoensis</i> Rodda & T.B. Tran		Apocynaceae	Epiph.	Orn	x	x	x	
<i>hoya vangviengiensis</i>	cầm cù vàng viêng	Apocynaceae	Liana	Orn		x		x
<i>Kibatalia macrophylla</i> (Pierre in Planch.ex Hua) Woodson		Apocynaceae	Shrub	Woo			x	
<i>Kopsia tonkinensis</i> Pitard	Giom bắc bộ	Apocynaceae	Shrub	Orn	x	x		
<i>Melodinus hemsleyanus</i> var <i>bacthaiensis</i> Ly	Giom bắc thái	Apocynaceae	Liana			x		
<i>Melodinus monogynus</i> Roxb.	Giom đơn thư	Apocynaceae	Liana		x	x		
<i>Rauvofia verticillata</i> Baill.	Ba gác vòng	Apocynaceae	Shrub	Med	x			

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<i>Streptocaulon griffithii</i> Hook. f.		Apocynaceae	Liana	Med			x	
<i>Streptocaulon griffithii</i> Hook.f.	Hà thủ ô gryffth	Apocynaceae	Liana	Med				x
<i>Strophanthus caudatus</i> Kurz	Sùng trâu	Apocynaceae	Shrub		x			
<i>Strophanthus divaricatus</i> Hook. & Arn.	Sùng dê	Apocynaceae	Shrub	Med				x
<i>Tabernaemontana bovina</i> Lour.	Lài trâu	Apocynaceae	Shrub	Orn	x	x		x
<i>Tabernaemontana divaricata</i> R. Br. ex Roem. & Schult.	Lài trâu	Apocynaceae	Shrub	Orn	x	x		x
<i>Tabernaemontana peduncularis</i> Wall.	Lài trâu có cọng	Apocynaceae	Shrub	Orn				x
<i>Tylophora ovata</i> Hook. & Steud.	Đầu đài xoan	Apocynaceae	Liana	Med				x
<i>Wrightia balansae</i> Pitard		Apocynaceae	Tree	Woo			x	
<i>Wrightia laevis</i> Hook.f.	Lòng mức trái to	Apocynaceae	Tree	Woo	x	x		x
<i>Wrightia pubescens</i> R. Br.		Apocynaceae	Tree	Woo			x	
<i>Ilex cochinchinensis</i> Loes.	Bùi nam bộ	Aquifoliaceae	Tree	Woo	x	x		
<i>Ilex godajam</i> Wall. In Roxb.		Aquifoliaceae	Tree	Woo			x	
<i>Ilex loeseneri</i> Tardieu	Bùi loesene	Aquifoliaceae	Tree	Woo	x	x		
<i>Ilex macrocarpa</i> Oliv		Aquifoliaceae	Tree	Woo			x	
<i>Ilex memecylifolia</i> Champ. ex Benth.	Bùi sẫm	Aquifoliaceae	Tree	Med, Woo				x
<i>Ilex purpurea</i> Hassk.	Bùi tía	Aquifoliaceae	Tree	Med, Woo	x	x		x
<i>Ilex triflora</i> Blume		Aquifoliaceae	Tree	Woo			x	
<i>Aglaonema tenuipes</i> Engl.		Araceae	Herb	Orn			x	
<i>Aglaonema modestum</i> Schott ex Engl.	Vạn niên thanh	Araceae	Herb	Orn	x	x		
<i>Aglaonema simplex</i> Blume	Vạn niên thanh đơn	Araceae	Herb	Orn	x	x		x
<i>Alocasia hainanensis</i> K.Krause	Ráy hải nam	Araceae	Herb	Orn	x	x		
<i>Alocasia macrorrhizos</i> G.Don	Ráy	Araceae	Herb	Med, Anv	x	x	x	x
<i>Alocasia odora</i> C. Koch	Môn	Araceae	Herb	Edi, Anv	x	x	x	x

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<i>Amorphophallus coetaneus</i> S.Y.Liu & S.J.Wei	Nửa củồng xanh	Araceae	Herb	Med	x	x		x
<i>Amorphophallus paenoniifolius</i> Nicolson	Nửa chuông	Araceae	Herb		x	x		
<i>Amorphophallus sp.</i>	Nửa nhỏ	Araceae	Herb		x	x		
<i>Amorphophallus tonkinesnis</i> Engl. & Gehrm.	Nửa bắc bộ	Araceae	Herb	Orn	x	x		x
<i>Amorphophallus yunnanensis</i> Engl. & Gehrm.	Nửa vân nam	Araceae	Herb		x	x		
<i>Amorphophalus rivieri</i> Dur. ex Riviere		Araceae	Herb				x	
<i>Arisaema balansae</i> Engl.	Thiên nam tinh	Araceae	Herb	Orn	x	x		x
<i>Arisaema lihengianum</i> J.Murata & S.K.Wu	Thiên nam tinh linen	Araceae	Herb	Orn	x	x		
<i>Arisaema petelotii</i> K.Krause	Nam tinh pételot	Araceae	Herb	Orn	x	x		x
<i>Colocasia esculenta</i> Schott	Khoai nước	Araceae	Herb	Edi, Anv	x	x	x	x
<i>Epipremnum giganteum</i> Schott	Thương kàn to	Araceae	Liana	Orn	x	x		x
<i>Epipremnum pinnatum</i> Engl. & K.Krause	Ráy leo lá xẻ	Araceae	Liana	Med,Orn	x	x	x	x
<i>Homalomena gigantea</i> Engl.	Thiên niên kiện	Araceae	Herb	Med	x	x		x
<i>Homalomena occulta</i> Schott	Sơn thực	Araceae	Herb	Med	x	x	x	x
<i>Homalomena pierreana</i> Engler.		Araceae	Herb	Med			x	
<i>Pothos angustifolius</i> Presl	Ráy leo lá hẹp	Araceae	Herb	Orn	x	x	x	
<i>Pothos chinensis</i> Merr.	Ráy leo chân rết	Araceae	Liana	Med	x	x		x
<i>Pothos lancifolius</i> Hook.f.		Araceae	Liana	Med			x	
<i>Pothos repens</i> Druce	Ráy bò	Araceae	Liana	Med	x	x	x	x
<i>Rhaphidophora chevalieri</i> Gagnep.	Đuôi phượng lá nhọn	Araceae	Epiph.	Orn	x	x	x	

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<i>Rhaphidophora crassicaulis</i> Engl. & K.Krause	Đuôi phượng thân mập	Araceae	Herb	Orn	x	x		
<i>Rhaphidophora laichauensis</i> Gagnep.	Trâm dài lai châu	Araceae	Liana	Orn	x	x		x
<i>Rhaphidophora sulcata</i> Gagnep.	Trâm dài sóng	Araceae	Liana	Orn	x	x		x
<i>Typhonium trilobatum</i> (L.) Schott		Araceae	Herb	Med, Poi			x	
<i>Aralia armata</i> Seem.	Công gai	Araliaceae	Shrub	Edi, Med	x	x	x	x
<i>Aralia chinensis</i> L.	Đinh lăng trung quốc	Araliaceae	Tree	Med	x	x		x
<i>Brassaiopsis sp.</i>		Araliaceae	Shrub	Edi, Med			x	
<i>Brassaiopsis variabilis</i> C.B.Shang		Araliaceae	Shrub	Med				x
<i>Dendropanax chevalieri</i> Merr.	Phong hà	Araliaceae	Tree	Woo	x	x	x	
<i>Gamblea ciliata</i> var. <i>evodiifolia</i> (Franch.) C.B.Shang, Lowry & Frodin		Araliaceae	Shrub	Woo			x	
<i>Heteropanax fragrans</i> Seem.	Đi sâm thơm	Araliaceae	Tree	Med	x	x	x	
<i>Schefflera brevipedicellata</i> Harms	Ngũ gia bì cọng ngắn	Araliaceae	Tree	Med				x
<i>Schefflera ciliata</i> Cuatrec.	Chân chim răng	Araliaceae	Tree	Med	x	x	x	x
<i>Schefflera heptaphylla</i> Frodin.	Chân chim lá tán	Araliaceae	Tree	Edi, Med	x	x	x	x
<i>Schefflera laxiuscula</i> Grushv. & Skvortsova		Araliaceae	Tree	Edi, Med			x	
<i>Schefflera macrophylla</i> (Dunn) Vig		Araliaceae	Tree	Edi, Med	x		x	
<i>Schefflera pes-avis</i> R.Vig.	Đu đủ rừng	Araliaceae	Tree	Med	x	x		x
<i>Schefflera petelotii</i> Merr.	Đu đủ rừng petelot	Araliaceae	Tree	Med				
<i>Schefflera tonkinensis</i> R. Vig	Chân chim bắc bộ	Araliaceae	Tree	Med	x	x		

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<i>Schefflera trungii</i> Grushv. & N. Skvorts	Chân chim phụ sinh	Araliaceae	Shrub	Med				x
<i>Tetrapanax papyrifer</i> (Hook.) K.Koch	Thông thảo	Araliaceae	Tree	Med	x	x		
<i>Trevesia burckii</i> Boerl. & Lind.) Visan.	Đu đủ rừng thù thất	Araliaceae	Tree	Med	x	x		x
<i>Trevesia palmata</i> Visan	Đu đủ rừng	Araliaceae	Tree	Edi, Med	x	x	x	x
<i>Areca laosensis</i> Becc.	Cau lào	Arecaceae	Tree	Orn				x
<i>Arenga pinnata</i> Merr.	Búng bóng	Arecaceae	Palm	Edi	x	x	x	x
<i>Calamus nambariensis</i> Becc.	song	Arecaceae	Liana	Fib			x	x
<i>Calamus palustris</i> Griff.	Mây đá	Arecaceae	Liana	Fib	x	x		
<i>Calamus platyacanthus</i> Warb. & Becc.	Song mật	Arecaceae	Liana	Fib	x	x		
<i>Calamus poilanei</i> Conrard	Song bột	Arecaceae	Liana	Fib	x	x		x
<i>Calamus tetradactylus</i> Hance	Mây nếp	Arecaceae	Liana	Fib	x	x		x
<i>Caryota bacsonensis</i> Magalon.	Đùng đình bắc sơn	Arecaceae	Palm	Orn, Edi			x	x
<i>Caryota mitis</i> Lour.	Đùng đình	Arecaceae	Palm	Med, Orn, Edi	x	x	x	x
<i>Caryota monostachya</i> Becc.	Đùng đình một buồng	Arecaceae	Palm	Edi	x	x		
<i>Caryota urens</i> L.	Đùng đình ngựa	Arecaceae	Palm	Orn, Edi	x	x	x	x
<i>Daemonorops pierreanus</i> Becc.		Arecaceae	Shrub	Fib			x	
<i>Licuala bracteata</i> Gagnep.	Lá nón	Arecaceae	Shrub	Orn	x	x	x	x
<i>Licuala spinosa</i> Thunb.	Mật cật gai	Arecaceae	Shrub	Orn	x	x		
<i>Licuala ternata</i> Griff. Ex Mart.	Ra cặp ba	Arecaceae	Shrub	Orn	x	x		x
<i>Livistona cochinchinensis</i> R.Br.		Arecaceae	Shrub	Edi			x	
<i>Livistona saribus</i> Merr. ex A.Chev.	Kè nam bộ	Arecaceae	Shrub	Orn				x
<i>Livistonia tonkinensis</i> Magalon	Kè bắc bộ	Arecaceae	Palm	Orn	x	x		x
<i>Plectocomia khasyana</i> Griff.	Mây ông mọc	Arecaceae	Shrub	Fib	x	x		x

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<i>Rhapis cochichinensis</i> Mart.	Mật cật nam bộ	Arecaceae	Shrub	Orn	x	x		
<i>Rhapis divarticata</i> Gagnep.	Mật cật rễ	Arecaceae	Shrub	Orn	x	x		
<i>Rhapis micrantha</i> Becc.	Mật cật hoa to	Arecaceae	Shrub	Orn				x
<i>Aristolochia austroyunnanensis</i> S.M.Hwang		Aristolochiaceae	Liana	Med			x	
<i>Aristolochia indica</i> L.	Sơn địch	Aristolochiaceae	Liana	Med	x	x		x
<i>Asarum maximum</i> Hemsl.		Aristolochiaceae	Herb	Med			x	
<i>Asarum balansae</i> Franch.	Hoa tiên	Aristolochiaceae	Herb	Med	x	x	x	
<i>Asarum caudigerum</i> Hance	Thỏ té tần	Aristolochiaceae	Herb	Med	x	x	x	
<i>Asparagus cochinchinensis</i> (Lour) Merr		Asparagaceae	Liana	Med			x	
<i>Disporopsis longifolia</i> Craib		Asparagaceae	Shrub	Med			x	
<i>Ophiopogon dracaenoides</i> Hook.f.		Asparagaceae	Herb	Med			x	
<i>Ophiopogon reptans</i> Hook.f.		Asparagaceae	Herb	Med			x	
<i>Adenostemma lavenia</i> Kuntze	Tuyên hùng	Asteraceae	Herb	Med	x	x		
<i>Adenostemma macrophyllum</i> DC.	Tuyên hùng lá to	Asteraceae	Herb	Med	x	x		
<i>Ageratum conyzoides</i> L.	Cỏ cứt lợn	Asteraceae	Herb	Med	x	x	x	x
<i>Ageratum houstonianum</i> Mill.	Cứt lợn cảnh	Asteraceae	Herb	Orn	x	x		
<i>Artemisia dracunculus</i> L.	Thanh cao rộng	Asteraceae	Herb	Edi, Med	x	x		x
<i>Artemisia japonica</i> Thunb.		Asteraceae	Herb	Med			x	
<i>Artemisia vulgaris</i> L.	Ngải cứu	Asteraceae	Herb	Edi, Med	x	x	x	x
<i>Bidens pilosa</i> L.	Song nha lông	Asteraceae	Herb	Edi, Med	x	x	x	
<i>Bidens tripartita</i> L.	Đơn buốt	Asteraceae	Herb	Med	x	x		x
<i>Blumea balsamifera</i> DC.	Từ bi xanh	Asteraceae	Herb	Med	x	x		
<i>Blumea chinensis</i> (L.) DC.		Asteraceae	Herb	Edi, Med			x	
<i>Blumea fistolusa</i> Kurz.	Kim đầu bông	Asteraceae	Herb	Med	x	x		x
<i>Blumea martiniana</i> Vaniot		Asteraceae	Herb	Edi, Med			x	
<i>Centipeda minima</i> A. Br. & Aschers.	Bách hải	Asteraceae	Herb	Med	x	x	x	x

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<i>Chromolaena odorata</i> (L.)King et Robinson		Asteraceae	Herb	Med			x	
<i>Conyza canadensis</i> Cronq.	Tai hùm	Asteraceae	Herb	Med	x	x		x
<i>Cosmos bipinnatus</i> Cav	Sao nhái	Asteraceae	Herb	Orn	x	x		
<i>Crassocephalum crepidioides</i> S.Moore	Kim thất	Asteraceae	Herb	Edi, Med	x	x	x	x
<i>Crossotephium artemisioides</i> L		Asteraceae	Herb	Med			x	
<i>Eclipta prostrata</i> L.	Cỏ mực	Asteraceae	Herb	Med	x	x	x	x
<i>Elephantopus mollis</i> H.B.K.	Chân voi mềm	Asteraceae	Herb	Med	x	x		x
<i>Elephantopus scaber</i> L.	Chân voi nhám	Asteraceae	Herb	Med	x	x	x	
<i>Elephantopus sonchifolia</i> (L.) DC.		Asteraceae	Herb	Edi, Med			x	
<i>Emilia sonchifolia</i> DC.	Rau má lá rau muống	Asteraceae	Herb	Edi, Med	x	x		
<i>Eupatorium heterophyllum</i> DC		Asteraceae	Herb	Med			x	
<i>Eupatorium odoratum</i> L.	Yên bạch	Asteraceae	Herb	Med	x	x		x
<i>Gnaphalium luteoalbum</i> L.	Khúc vàng	Asteraceae	Herb	Med,			x	x
<i>Gynura barbaraefolia</i> Gagnep		Asteraceae	Herb	Edi, Med			x	
<i>Gynura lycopersicifolia</i> DC.	Kim thất lá tô-mách	Asteraceae	Herb	Med				x
<i>Lactuca indica</i> L.	Bồ công anh	Asteraceae	Herb	Med	x	x	x	x
<i>Laggera alata</i> Sch. - Bip. ex Oliv.	Dực cảnh cánh	Asteraceae	Herb	Med	x	x		x
<i>Petasites japonicus</i> F.Schmidt Maxim.	Kim tâm	Asteraceae	Herb	Med	x	x		x
<i>Pseudoepanthopus spicatus</i> Gleason	Chân voi giả	Asteraceae	Herb		x	x		x
<i>Siegesbeckia orientalis</i> L.	Hy thiêm	Asteraceae	Herb	Med	x	x		
<i>Solidago virgaurea</i> L.		Asteraceae	Herb	Med			x	
<i>Thespis tonkinensis</i> Gagnep.	Cóc mần	Asteraceae	Herb		x	x		x
<i>Tithonia diversifolia</i> A. Gray.	Sơn quỳ biển diệp	Asteraceae	Herb	Med, Orn	x	x	x	x

Scientific name	Vietnamese name	Family	Plant habit	Use	Cham Chu	Bac Me	Phia Oac	Nam Xuan Lac
<i>Vernonia arborea</i> Buch. - Harm. Ex D.Don	Bạch đầu mộc	Asteraceae	Tree	Med, Woo	x	x	x	x
<i>Vernonia cinirea</i> (L.) Less.		Asteraceae	Herb	Med	x	x	x	
<i>Vernonia scandens</i> DC.	Bạc đầu leo	Asteraceae	Herb	Med				x
<i>Vernonia solanifolia</i> Benth.	Bạch đầu lá cà	Asteraceae	Herb	Med	x	x		
<i>Xanthium strumarium</i> L.	Ké đầu ngựa	Asteraceae	Shrub	Med	x	x		x
<i>Balanophora latisepala</i> Lecomte	Dương đài hình cầu	Balanophoraceae	Epiph.	Med	x	x	x	x
<i>Balanophora laxiflora</i> Hemsley	Dương đài	Balanophoraceae	Herb		x	x		
<i>Impatiens claviger</i> Hook. f	Móc tai chìa khóa	Balsaminaceae	Herb	Orn			x	x
<i>Impatiens finetii</i> Tardieu	Bóng nước finet	Balsaminaceae	Shrub	Orn	x	x		
<i>Impatiens lobulifera</i> S.X. Yu, Y.L.Chen & H.N.Qin	Móng tay	Balsaminaceae	Shrub	Orn	x	x		
<i>Impatiens morsei</i> Hook.f.	Bóng nước morse	Balsaminaceae	Herb	Orn	x	x		x
<i>Impatiens parvisepala</i> S.X. Yu & Y.T. Hou	Bóng nước dài to	Balsaminaceae	Shrub	Orn	x	x		
<i>Impatiens pulchra</i> Hook.f. & Thomson		Balsaminaceae	Herb	Orn			x	
<i>Impatiens sp.</i>	Móc tai	Balsaminaceae	Herb	Orn				x
<i>Impatiens verrucifer</i> Hook.f.	Móng tai có mụn	Balsaminaceae	Herb	Orn	x	x		x
<i>Basella rubra</i> L.	Rau mồng tơi	Basellaceae	Liana	Edi, Med	x	x	x	
<i>Begonia aptera</i> Blume	Thu hải đường không cánh	Begoniaceae	Herb	Med, Orn, Edi	x		x	
<i>Begonia bacmeensis</i> V.T. Pham & C.W. Lin	Thu hải đường bắc mê	Begoniaceae	Herb			x		
<i>Begonia baviensis</i> Gagnep.	Thu hải đường bavi	Begoniaceae	Herb	Orn, Edi	x	x		

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<i>Begonia bonii</i> L	Thu hải đường bon	Begoniaceae	Herb	Orn, Edi	x			
<i>Begonia caobangensis</i> C.-I Peng & C. W. Lin	Thu hải đường cao bằng	Begoniaceae	Herb	Orn, Edi	x	x		
<i>Begonia handelii</i> Irmsch.		Begoniaceae	Herb	Orn, Edi	x	x	x	x
<i>Begonia lecomtei</i> Gagnep.	Thu hải đường lecomte	Begoniaceae	Herb	Orn, Edi	x	x		
<i>Begonia nahangensis</i> Aver. et H.Q. Nguyen	Thu hải đường na hang	Begoniaceae	Herb			x		
<i>Begonia pedatifida</i> Levl.	Thu hải đường	Begoniaceae	Herb	Orn, Edi	x	x		x
<i>Begonia sp.1</i>	Thu hải đường	Begoniaceae	Herb			x		
<i>Begonia sp.2</i>		Begoniaceae	Herb	Orn, Edi			x	
<i>Begonia villifolia</i> Lindl		Begoniaceae	Herb	Orn, Edi			x	
<i>Begonia wenshanensis</i> C.M. Hu ex C.Y. Wu & T.C. Ku		Begoniaceae	Herb	Orn, Edi			x	
<i>Dyosma difformis</i> T.H.Wang	Bát giác liên	Berberidaceae	Herb	Med				
<i>Dyosma difformis</i> T.H.Wang	Bát giác liên	Berberidaceae	Herb	Med	x	x		x
<i>Mahonia duclouxiana</i> Gagnep.	Mã hồ duclouxi	Berberidaceae	Shrub			x		
<i>Mahonia sp.</i>	Mã hồ	Berberidaceae	Shrub	Med	x			
<i>Betula alnoides</i> Buch.- Ham.	Cáng lò	Betulaceae	Tree	Woo, Med, Bio	x	x	x	x
<i>Fernandoa bracteata</i> Steenis	Đỉnh vàng	Bignoniaceae	Tree	Woo	x	x		x
<i>Fernandoa brilletii</i> Steen.	Đỉnh thối	Bignoniaceae	Tree	Woo	x	x		
<i>Fernandoa serrata</i> Steen.	Đỉnh vàng quả khía	Bignoniaceae	Tree	Woo	x	x		x
<i>Markhamia stipulata</i> Seem.	Đỉnh	Bignoniaceae	Tree	Med, Woo	x	x	x	x
<i>Oroxylon indicum</i> (L.) Vent.		Bignoniaceae	Tree	Woo, Edi, Med	x	x	x	x
<i>Radermachera hainanensis</i> Merr.	Rà đẹt hải nam	Bignoniaceae	Tree			x		
<i>Radermachera ignea</i> Steen	Rà đẹt lửa	Bignoniaceae	Tree	Woo	x	x		
<i>Radermachera sinica</i> Hemsl.	Rà đẹt tàu	Bignoniaceae	Tree	Woo	x	x		x

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<i>Stereospermum neuranthum</i> Kurz	Khe núi	Bignoniaceae	Tree	Woo	x	x		x
<i>Stereospermum tetragonum</i> DC.	Quao núi	Bignoniaceae	Tree		x	x		
<i>Cordia grandis</i> Roxb.	Tâm mộc lá to	Boraginaceae	Tree			x		
<i>Heliotropium indicum</i> L.		Boraginaceae	Shrub	Med			x	
<i>Cardamine hirsuta</i> L.	Cải trời hoa trắng	Brassicaceae	Herb	Med	x	x		x
<i>Rorippa benghalensis</i> Hara	Cải đất bengal	Brassicaceae	Herb	Med	x	x		x
<i>Rorippa dubia</i> (Pers.) Hara		Brassicaceae	Herb	Edi			x	
<i>Rorippa globosa</i> Vassilcz.	Cải đất tròn	Brassicaceae	Herb	Med	x	x		x
<i>Rorippa indica</i> Hiern.	Cải đất ấn	Brassicaceae	Herb	Med	x	x	x	x
<i>Ananas comosus</i> Merr.	Dứa	Bromeliaceae	Herb	Edi, Med	x	x		
<i>Buddleia paniculata</i> Wall.		Buddleiaceae	Shrub	Med			x	
<i>Buddleja asiatica</i> Lour.	Búp lê á	Buddlejaceae	Shrub	Med				x
<i>Burmanna disticha</i> L.	Cào cào song dĩnh	Burmanniaceae	Herb		x	x		
<i>Canarium album</i> Raseusch.	Trám trắng	Burseraceae	Tree	Woo, Edi, Bio, Edi	x	x	x	x
<i>Canarium bengalense</i> Roxb.	Trám ba cạnh	Burseraceae	Tree	Med, Woo, Edi, Bio	x	x		x
<i>Canarium pimela</i> K.D.Koenig	Trám đen	Burseraceae	Tree	Edi, Med, Woo	x	x		x
<i>Buxus megistophylla</i> Lévl		Buxaceae	Shrub					x
<i>Codonopsis javanica</i> (Blume) Hook.f.		Campanulaceae	Liana	Med			x	
<i>Lobelia chinensis</i> Lour.	Bán biên niên	Campanulaceae	Herb	Med	x	x		
<i>Pratia nummularia</i> A. Br. & Aschers.	Nhả hoa	Campanulaceae	Herb	Med				x
<i>Aphananthe aspera</i> (Thunb.) Planch. in DC	U du nhám	Cannabaceae	Tree	Woo	x	x		
<i>Celtis philippensis</i> Blanco	Sêu philippin	Cannabaceae	Tree	Woo	x	x		

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<i>Celtis tetrandra</i> Roxb.	Ma trá tứ hùng	Cannabaceae	Tree	Orn, Woo	x	x		
<i>Gironniera cuspidata</i> Kurz	Ngát tron	Cannabaceae	Tree	Woo	x	x		
<i>Gironniera subaequalis</i> Planch.	Ngát	Cannabaceae	Tree	Woo	x	x		
<i>Trema orientalis</i> Blume	Hu đay	Cannabaceae	Tree	Edi, Fib	x	x		
<i>Trema tomentosa</i> Hara	Trần mai lông	Cannabaceae	Tree	Edi, Fib	x	x		
<i>Canna edulis</i> L.		Cannaceae	Shrub	Edi			x	
<i>Capparis acutifolia</i> Sweet	Cáp hoa nhọn	Capparaceae	Shrub	Med	x	x		x
<i>Capparis pubiflora</i> DC.	Cáp hoa lông	Capparaceae	Shrub	Med	x	x		x
<i>Cleome chelidonii</i> L.f.	Màn màn tím	Capparaceae	Herb	Med	x	x		x
<i>Stixis scandens</i> Lour.		Capparaceae	Shrub	Med			x	
<i>Stixis suaveolens</i> (Roxburgh) Pierre		Capparaceae	Shrub	Med	x	x	x	x
<i>Lonicera japonica</i> Thunb.	Kim ngân	Caprifoliaceae	Liana	Med	x	x	x	x
<i>Sambucus javanicus</i> Reinw. ex Blume	Cơm cháy	Caprifoliaceae	Shrub	Med	x	x	x	x
<i>Viburnum lutescens</i> Blume	Vót	Caprifoliaceae	Shrub	Med	x	x		x
<i>Drymaria cordata</i> subsp. <i>diandra</i> (Blume) J.A.Duke		Caryophyllaceae	Shrub	Edi, Med			x	
<i>Euonymus eberhardtii</i> Tard.	Chân danh	Celastraceae	Shrub	Med	x			x
<i>Euonymus forbesianus</i> Loes	Chân danh	Celastraceae	Shrub	Med	x	x	x	
<i>Euonymus pseudovagans</i> Pitard	Chân danh ngao	Celastraceae	Shrub		x	x		
<i>Euonymus tonkinensis</i> Loes.	Chân danh bắc bộ	Celastraceae	Shrub		x	x		
<i>Glyptopetalum harmandianum</i> Pierre	Xâm cánh harmand	Celastraceae	Tree		x	x		
<i>Salacia chinensis</i> L.	Chóp máu mủ	Celastraceae	Shrub	Med	x	x		x
<i>Ceratoteris thalietroides</i> Brongn		Ceratoterdaceae	Shrub	Edi			x	
<i>Cheiropleuria bicuspis</i> (Bl.) Presl.		Cheiropleuriaceae	Shrub				x	
<i>Chenopodium polyspermum</i> L.	Kính giới nhiều hạt	Chenopodiaceae	Herb	Med	x	x		

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<i>Chloranthus spicatus</i> Makino	Sói gié	Chloranthaceae	Shrub	Med, Orn	x	x		x
<i>Sarcandra glabra</i> Nakai	Sói rừng	Chloranthaceae	Shrub	Med	x	x	x	x
<i>Clethra fabri</i> Hance		Clethraceae	Shrub	Woo			x	
<i>Garcinia fragraeoides</i> A.Chev.	Traí lý	Cluciaceae	Tree	Woo	x	x		x
<i>Garcinia gracilis</i> Pierre	Búra núi đá	Cluciaceae	Tree	Woo	x	x		x
<i>Garcinia multiflora</i> Champ. ex Benth.	Dọc	Cluciaceae	Tree	Edi, Med Bio	x	x		x
<i>Garcinia oblongifolia</i> Champ. ex Benth.	Búra lá tròn dài	Cluciaceae	Tree	Med, Woo, Edi, Bio	x	x	x	x
<i>Calophyllum balansae</i> Pit.	Cồng rù rì	Clusiaceae	Tree	Woo	x	x		
<i>Garcinia fusca</i> Pierre	Búra lửa	Clusiaceae	Tree	Woo	x	x		
<i>Disporum cantoniense</i> (Lour.) Merr.		Colchicaceae	Shrub	Med				
<i>Terminalia myriocarpa</i> Heurck & Muell. Arg	Chò xanh	Combretaceae	Tree			x		
<i>Amischololype hispida</i> D.Y.Hong	Lâm trai phún	Commelinaceae	Herb		x	x	x	x
<i>Commelina banghalensis</i> L.	Đầu riêu	Commelinaceae	Herb	Orn, Anv	x	x	x	x
<i>Commelina communis</i> L.	Thài lài trắng	Commelinaceae	Herb	Orn, Anv	x	x	x	x
<i>Commelina paludosa</i> Blume	Rau trai	Commelinaceae	Herb	Anv	x	x	x	x
<i>Cyanotis papilionacea</i> Roem. & Schult.f.	Bích trai	Commelinaceae	Herb	Anv	x	x		x
<i>Murdannia nudiflora</i> (L.) Brenan	Lõa trai	Commelinaceae	Herb	Anv				x
<i>Murdannia versicolor</i> Bruckn.	Lõa trai đôi màu	Commelinaceae	Herb	Anv	x	x		
<i>Pollia hasskarlii</i> R. Rao	Bôn hasskarl	Commelinaceae	Herb		x	x	x	x
<i>Pollia thyriflora</i> Endl. & Hassk.	Bôn dày	Commelinaceae	Herb				x	x
<i>Spatholirion scandens</i> Dunn		Commelinaceae	Herb				x	
<i>Streptolirion pendula</i> Schinzl.		Commelinaceae	Herb				x	
<i>Streptolirion volubile</i> Edgew.	Trúc điệp tử	Commelinaceae	Liana	Med	x	x	x	x
<i>Tradescentia zebrina</i> Bosse.	Thài lài tía	Commelinaceae	Herb	Med	x	x		x
<i>Aspidistra spl</i>	Tỏi rừng	Convallariaceae	Herb			x		

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<i>Aspidistra tonkinensis</i> F.T.Wang & T.Tang	Cô lan	Convallariaceae	Herb	Med	x	x		
<i>Aspidistra typica</i> Baill	Tỏi đá	Convallariaceae	Herb	Med, Orn	x	x		x
<i>Disporopsis longifolia</i> Craib.	Hoàng tinh hoa trắng	Convallariaceae	Herb	Med	x	x		x
<i>Disporum cantoniensis</i> (Lour.) Merr.	Sâm lá trúc	Convallariaceae	Herb	Med	x	x		x
<i>Ophiopogon chingii</i> Wang & Tang	Cao cẳng lá nhỏ	Convallariaceae	Herb	Med	x	x		
<i>Ophiopogon dracaenoides</i> (Bak.) Hook. f.	Sâm đá	Convallariaceae	Herb	Med	x	x		
<i>Ophiopogon latifolius</i> Rodr.	Xà thảo lá rộng	Convallariaceae	Herb	Med	x	x		x
<i>Ophiopogon reptans</i> Hook.f.	Cao cẳng	Convallariaceae	Herb	Med	x	x		x
<i>Ophiopogon tonkinensis</i> Rodr.	Xà bì bắc bộ	Convallariaceae	Herb	Med	x	x		
<i>Peliosanthes teta</i> Andr.	Sâm cau	Convallariaceae	Herb	Med	x	x		x
<i>Polygonatum punctatum</i> Royle	Hoàng tinh đốm	Convallariaceae	Herb	Med	x	x		x
<i>Argyreia capitata</i> (Vahl) Choisy		Convolvulaceae	Liana				x	
<i>Argyreia nasirii</i> D.Austin	Bạc thau	Convolvulaceae	Liana	Med				x
<i>Dinetus racemosus</i> (Roxb.) Sweet		Convolvulaceae	Liana				x	
<i>Erycibe subspicata</i> Wall. ex G. Don.	Bìm	Convolvulaceae	Liana	Med	x	x		x
<i>Ipomoea hederifolia</i> L.		Convolvulaceae	Liana	Anv			x	
<i>Alangium barbatum</i> var. <i>decipiens</i> Tard	Thôi ba lá kích	Cornaceae	Shrub		x			
<i>Alangium chinense</i> Harms	Thôi ba trung quốc	Cornaceae	Tree	Med, Woo, Anv	x	x		
<i>Cornus hongkongensis</i> Hemsl	Giác mộc hồng kông	Cornaceae	Tree			x		
<i>Cornus hongkongensis</i> Hemsl		Cornaceae	Tree	Woo			x	
<i>Diplopanax stachyanthus</i> Hand.-Mazz		Cornaceae	Tree	Woo			x	
<i>Toricellia angulata</i> Oliv.		Cornaceae	Tree	Med			x	

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<i>Costus speciosus</i> Smith	Mía dò	Costaceae	Herb	Med, Orn	x	x		x
<i>Costus tonkinensis</i> Gagnep		Costaceae	Shrub	Med			x	
<i>Actinostemma tenerum</i> Griff.	Xạ hùng mềm	Cucurbitaceae	Liana	Med	x	x		
<i>Coccinia grandis</i> Voigt.	Bát	Cucurbitaceae	Liana	Edi, Med	x	x		
<i>Cynanchum corymbosum</i> Wight	Sát khuyển	Cucurbitaceae	Herb	Med		x		
<i>Gymnopetalum integrifolium</i> Kurz	Cứt quạ	Cucurbitaceae	Liana	Med	x	x		
<i>Gynostemma pentaphyllum</i> Makino	Giảo cổ lam	Cucurbitaceae	Liana	Edi, Med	x	x	x	x
<i>Hodgsonia macrocarpa</i> Cogn.	Đài hái	Cucurbitaceae	Liana	Edi, Med, Bio	x	x	x	x
<i>Mukia maderaspatana</i> Roem.	Cầu qua nhám	Cucurbitaceae	Liana	Med	x	x		x
<i>Neosalsmitra integrifolia</i> Hutch.	Lâm mạo lá nguyên	Cucurbitaceae	Liana		x	x		x
<i>Solena amplexicaulis</i> Gandhi	Cầu qua dị điệp	Cucurbitaceae	Liana	Med	x	x		x
<i>Thladiantha cordifolia</i> Cogn.	Khế áo tím	Cucurbitaceae	Liana	Med	x	x		x
<i>Trichosanthes tricuspidata</i> Lour.	Qua lâu	Cucurbitaceae	Liana	Med	x	x		
<i>Zehneria indica</i> Keraudren	Chùm thẳng	Cucurbitaceae	Liana	Med	x	x		x
<i>Carex alopecuroides</i> D.Don		Cyperaceae	Herb	Anv			x	
<i>Carex baccans</i> Nees	Cói túi	Cyperaceae	Herb	Anv	x	x	x	x
<i>Carex thomsonii</i> Boott	Cói túi thomson	Cyperaceae	Herb		x	x		
<i>Cyperus articulatus</i> L.	U ru có đốt	Cyperaceae	Herb		x	x		
<i>Cyperus castaneus</i> Wikkd.	Cói hạt dẻ	Cyperaceae	Herb	Anv				x
<i>Cyperus clarkei</i> T. Cooke		Cyperaceae	Herb	Anv			x	
<i>Cyperus compressus</i> L.		Cyperaceae	Herb	Anv			x	
<i>Cyperus diffusus</i> Vahl	Cói hoa xòe	Cyperaceae	Herb		x	x		
<i>Cyperus digitatus</i> Roxb.		Cyperaceae	Herb	Anv			x	
<i>Cyperus halpan</i> L.		Cyperaceae	Herb	Anv			x	
<i>Cyperus pilosus</i> (L.) Vahl		Cyperaceae	Herb	Anv	x	x	x	
<i>Cyperus rotundus</i> L		Cyperaceae	Herb	Anv			x	
<i>Eleocharis acutangula</i> Schult.	Cói năn cạnh	Cyperaceae	Herb		x	x		
<i>Eleocharis atropurpurea</i> Presl		Cyperaceae	Herb	Med			x	

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<i>Eleocharis geniculata</i> Roem. & Schult.	Năn gói	Cyperaceae	Herb	Anv	x	x		
<i>Fimbristylis sp.</i>		Cyperaceae	Shrub	Anv			x	
<i>Fimbristylis globulosa</i> Kunth	Mao thu tán	Cyperaceae	Herb	Anv	x	x		
<i>Fimbristylis salbudia</i> Kunth	Cói quăn nê pan	Cyperaceae	Herb	Anv	x	x		
<i>Heleocharis esquistina</i> Presl		Cyperaceae	Herb	Anv			x	
<i>Kyllinga polycephala</i> Link	Cói bạc đa đầu	Cyperaceae	Herb		x	x		
<i>Rhynchospora submarginata</i> Kuk.	Chủy tử bì	Cyperaceae	Herb	Anv	x	x		
<i>Scirpus petelotii</i> R. Gross	Hoàng thảo pételot	Cyperaceae	Herb	Anv	x	x		x
<i>Scleria ciliaris</i> Nees.		Cyperaceae	Herb	Anv			x	
<i>Scleria harlandii</i> Hance		Cyperaceae	Herb	Anv			x	
<i>Scleria terrestris</i> Fass.	Đưng đất	Cyperaceae	Herb	Anv	x	x		x
<i>Scleria tonkinensis</i> C.B. Clarke	Đưng bắc bộ	Cyperaceae	Herb	Anv	x	x		
<i>Daphniphyllum glaucescens</i> Blume		Daphniphyllaceae	Tree	Woo			x	
<i>Dillenia indica</i> L.	Sổ bà	Dilleniaceae	Tree	Med,Woo,Edi				x
<i>Dillenia pentagyna</i> Roxb.	Sổ ngũ thư	Dilleniaceae	Tree	Med,Woo,Edi	x	x		x
<i>Dillenia turbinata</i> Fin. ex Gagnep.	Sổ lông vù	Dilleniaceae	Tree	Med, Woo	x	x		
<i>Tetracera asiatica</i> Hoogland	Dây chặc chịu	Dilleniaceae	Liana	Med	x	x		x
<i>Dioscorea alata</i> L.	Khoai ngọt	Dioscoreaceae	Liana	Edi, Med	x	x		x
<i>Dioscorea bulbifera</i> L.		Dioscoreaceae	Shrub	Edi			x	
<i>Dioscorea cirrhosa</i> Lour.	Củ nâu	Dioscoreaceae	Liana	Edi, Med, Bio	x	x	x	x
<i>Dioscorea colletii</i> Hook. f.	Từ cô let	Dioscoreaceae	Liana	Med				x
<i>Dioscorea esculenta</i> Burk.	Từ gai	Dioscoreaceae	Liana	Edi, Med	x	x		
<i>Dioscorea glabra</i> Roxb.		Dioscoreaceae	Liana	Med			x	
<i>Dioscorea hamiltonii</i> Hook.f.	Từ Hamilton	Dioscoreaceae	Liana	Edi, Med	x	x		
<i>Dioscorea hemsleyi</i> Prain & Burk.	Từ hemsley	Dioscoreaceae	Liana	Edi, Med	x	x		
<i>Dioscorea hispida</i> Dennist.		Dioscoreaceae	Liana	Med, Poi		x	x	
<i>Dioscorea kratika</i> Prain & Burk.	Khoai mọi	Dioscoreaceae	Liana	Med				x

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<i>Dioscorea persimilis</i> Prain & Burkill	Củ mài	Dioscoreaceae	Liana	Edi, Med	x	x	x	x
<i>Dioscorea triphylla</i> L. var. <i>reticulata</i> Prain		Dioscoreaceae	Liana	Med			x	
<i>Dipterocarpus retusus</i> Blume.	Chò nâu	Dipterocarpaceae	Tree	Woo	x			x
<i>Parashorea chinensis</i> H.Wang	Chò chỉ	Dipterocarpaceae	Tree	Woo,Orn	x			
<i>Vatica odorata</i> (Griff.) Symingt	Táu mật	Dipterocarpaceae	Tree			x		
<i>Dracaena angustifolia</i> Roxb.	Phất dụ hẹp	Dracaenaceae	Shrub	Orn	x	x		
<i>Dracaena eliptica</i> Thunb.	Phất dù bầu dục	Dracaenaceae	Shrub	Med	x	x		x
<i>Dracaena gracilis</i> Wall. ex Hook.f.	Phất dù mạch	Dracaenaceae	Shrub	Orn	x	x		x
<i>Dracena loureiri</i> Gagnep		Dracaenaceae	Herb	Med			x	
<i>Diospyros apiculata</i> Hiern	Nhọ nôi	Ebenaceae	Tree	Woo	x	x		x
<i>Diospyros brandisiana</i> Kurz	Thị hoa ở thân	Ebenaceae	Tree	Woo	x	x		
<i>Diospyros buxifolia</i> (Blume) Hiern	Vảy ốc	Ebenaceae	Tree	Woo	x	x		
<i>Diospyros kaki</i> Thunb.	Cây hồng	Ebenaceae	Tree	Edi, Med,Bio				x
<i>Diospyros malabarica</i> Kosterm.	Thị trầm	Ebenaceae	Tree	Woo	x	x		
<i>Diospyros mollis</i> Griff.	Mặc nưa	Ebenaceae	Tree	Woo	x	x		
<i>Diospyros morrisiana</i> Hance	Thị rừng	Ebenaceae	Tree	Woo	x		x	x
<i>Diospyros rufogemmata</i> Lecomte	Thị chồi nhung	Ebenaceae	Tree	Woo	x			x
<i>Diospyros susarticulata</i> Lecomte	Thị đốt cao	Ebenaceae	Tree	Woo	x	x		x
<i>Diospyros sylvatica</i> Roxb.	Thị núi	Ebenaceae	Tree	Woo	x	x	x	
<i>Elaeagnus gonyanthes</i> Benth.	Nhót đại	Elaeagnaceae	Shrub	Edi				x
<i>Elaeocarpus angustifolius</i> Blume		Elaeocarpaceae	Tree	Woo			x	
<i>Elaeocarpus griffithii</i> (Wight) A.Gray		Elaeocarpaceae	Tree	Woo	x	x	x	x
<i>Elaeocarpus macrocerus</i> Merr	Côm sừng to	Elaeocarpaceae	Tree	Woo	x	x		
<i>Elaeocarpus stipularis</i> Blume	Côm lá kèm	Elaeocarpaceae	Tree	Woo,Bio	x	x		x
<i>Elaeocarpus sylvestris</i> (Lour.) Poir. in Lamk		Elaeocarpaceae	Tree	Woo			x	
<i>Sloanea sinensis</i> (Hance) Hemsl	Nhím nước	Elaeocarpaceae	Tree	Woo	x	x	x	

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<i>Sloanea tomentosa</i> (Benth.) Rehd. & Wils	Nhím nước lông dầy	Elaeocarpaceae	Tree	Woo	x	x		
<i>Agapetes hosseana</i> Diels		Ericaceae	Epiph.	Orn			x	
<i>Gaultheria fragrantissima</i> Wall	Châu thụ thơm	Ericaceae	Liana	Med	x	x		
<i>Rhododendron arboreum</i> Smith		Ericaceae	Shrub	Orn			x	
<i>Rhododendron chevalieri</i> P. Dop.		Ericaceae	Shrub	Orn			x	
<i>Rhododendron decorum</i> subsp. <i>diaprepes</i> (Balf. f. & W.W. Sm.) T.L. Ming		Ericaceae	Shrub	Orn			x	
<i>Rhododendron fleuryi</i> Dop in A. Chev		Ericaceae	Shrub	Orn			x	
<i>Rhododendron irroratum</i> Franch.		Ericaceae	Shrub	Orn			x	
<i>Rhododendron simsii</i> Planch.	Đỗ quyên hoa đỏ	Ericaceae	Shrub	Orn	x	x		x
<i>Rhododendron tanastylum</i> Balf. f. & Ward		Ericaceae	Shrub	Orn			x	
<i>Vaccinium brevipedicellatum</i> C.Y. Wu		Ericaceae	Shrub				x	
<i>Vaccinium bullatum</i> Sleum.	Sơn trám	Ericaceae	Liana	Med	x	x		x
<i>Vaccinium dunalianum</i> Wight		Ericaceae	Shrub				x	
<i>Rhododendron lyi</i> H. Lév.		Ericaceae	Shrub	Orn			x	
<i>Vaccinium chunii</i> Merr. ex Sleumer		Ericaceae	Shrub				x	
<i>Eriocaulon australis</i> R. Br.		Eriocaulaceae	Herb	Anv			x	
<i>Eriocaulon bonii</i> Lecomte	Dùi trống bon	Eriocaulaceae	Herb		x	x		
<i>Eriocaulon eberhardtii</i> Lecomte	Dùi trống tơ	Eriocaulaceae	Herb		x	x		
<i>Alchornea petelotii</i> Thin	Vông đỏ hai tính	Euphorbiaceae	Tree					x
<i>Alchornea rugosa</i> Muell.-Arg	Đom đóm dại	Euphorbiaceae	Tree		x	x	x	x
<i>Antidesma bunius</i> Spreng.	Chòi mò nhọn	Euphorbiaceae	Shrub	Edi, Med	x	x	x	x
<i>Antidesma delicatulum</i> Hutchinson		Euphorbiaceae	Shrub				x	
<i>Antidesma ghaesembilla</i> Gaertn.	Chòi mò	Euphorbiaceae	Tree	Edi	x	x		x
<i>Antidesma hainanense</i> Merr	Đon núi	Euphorbiaceae	Tree		x	x		

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<i>Antidesma montanum</i> Blume	Chòi mòi núi	Euphorbiaceae	Tree	Edi	x	x		
<i>Aporosa dioica</i> Muell. Arg.	Thầu tấu	Euphorbiaceae	Tree	Med, Woo, Edi	x	x	x	x
<i>Aporosa macrostachya</i> Muell. Agn.	Tai ghé đuôi to	Euphorbiaceae	Tree	Woo	x	x		
<i>Baccaurea ramiflora</i> Lour	Giâu gia đất	Euphorbiaceae	Tree	Edi, Woo, Edi, Med	x	x	x	x
<i>Bischofia javanica</i> Blume	Nhội tía	Euphorbiaceae	Tree	Med, Woo, Bio, Edi	x	x	x	x
<i>Breynia fruticosa</i> Hook.f.	Bồ cu vẽ	Euphorbiaceae	Tree	Med	x	x	x	x
<i>Bridelia balansae</i> Tutchet	Đỏm balansa	Euphorbiaceae	Tree		x	x	x	
<i>Bridelia pierrei</i> Gagnep.	Đỏm pierre	Euphorbiaceae	Tree	Med	x	x		x
<i>Claoxylon idicum</i> Endl. ex Hassk	Mộc trắng	Euphorbiaceae	Tree	Med	x	x	x	x
<i>Claoxylon longifolium</i> (Blume) Endl. ex Hassk	Lộc mại lá dài	Euphorbiaceae	Tree	Woo	x	x		
<i>Cleidion brevipetiolatum</i> Pax & K.Hoffm.	Lậy đông cuống ngắn	Euphorbiaceae	Tree	Woo	x	x		x
<i>Cleidion spiciflorum</i> Merr	Mỏ chim	Euphorbiaceae	Tree	Woo	x	x		x
<i>Cleistanthus petelotii</i> Merr. ex Croiz.	Cách hoa pételot	Euphorbiaceae	Shrub	Woo	x	x		
<i>Cleistanthus sumatranus</i> Muell, Arg.	Cách hoa java	Euphorbiaceae	Shrub	Woo	x	x		
<i>Cleistanthus tonkinensis</i> Jabl.	Cách hoa bắc bộ	Euphorbiaceae	Shrub		x	x		x
<i>Croton argyratus</i> Blume	Cù đèn bạc	Euphorbiaceae	Tree	Med, Woo	x	x		x
<i>Croton longipes</i> Gagnep.	Ba đậu cuống dài	Euphorbiaceae	Tree	Woo	x	x		x
<i>Croton tiglium</i> L.	Ba đậu	Euphorbiaceae	Tree	Med	x	x		x
<i>Deutzianthus tonkinensis</i> Gagnep	Mọ	Euphorbiaceae	Tree	Med, Woo	x	x	x	x
<i>Drypetes hoaensis</i> Gagnep	Sang trắng biên hòa	Euphorbiaceae	Tree	Woo	x	x	x	x
<i>Endospermum chinense</i> Benth.	Vạng trứng	Euphorbiaceae	Tree	Med, Woo	x	x	x	x
<i>Euphorbia hirta</i> L.		Euphorbiaceae	Shrub	Med			x	
<i>Excoecaria cochinchinensis</i> Lour.	Giá	Euphorbiaceae	Shrub	Poi	x	x		x
<i>Fluggea virosa</i> (Roxb ex Willd) Bail		Euphorbiaceae	Tree	Med			x	

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<i>Glochidion eriocarpum</i> Champ		Euphorbiaceae	Tree	Woo			x	
<i>Glochidion pilosum</i> (Lour.) Merr.		Euphorbiaceae	Tree	Woo			x	
<i>Glochidion rubrum</i> Blume	Sóc đỏ	Euphorbiaceae	Tree	Med	x	x		x
<i>Homonoria riparia</i> Lour.		Euphorbiaceae	Tree				x	
<i>Jatropha curcas</i> L		Euphorbiaceae	Tree	Bio			x	
<i>Macaranga denticulata</i> Muell. Arg.	Ba soi	Euphorbiaceae	Tree	Woo	x	x	x	x
<i>Macaranga henryi</i> Rehr	Mã rạn henry	Euphorbiaceae	Tree	Woo	x	x	x	x
<i>Macaranga indica</i> Wight	Mã rạn ấn	Euphorbiaceae	Tree	Anv	x	x		
<i>Mallotus apelta</i> Müll.Arg.		Euphorbiaceae	Tree	Woo			x	x
<i>Mallotus barbatus</i> Muel. Arg.	Bùm bụp	Euphorbiaceae	Tree	Med, Anv, Woo	x	x	x	x
<i>Mallotus luchenensis</i> Metc	Cám lợn	Euphorbiaceae	Tree	Anv	x	x		
<i>Mallotus metcalfianus</i> Croiz.	Bùm bụp metcalf	Euphorbiaceae	Tree	Woo	x	x		
<i>Mallotus microcarpus</i> Pax & Hoffm.	Ba bét quả nhỏ	Euphorbiaceae	Tree	Med,Woo				x
<i>Mallotus philippinensis</i> Muel. Arg.	Thuốc sán	Euphorbiaceae	Tree	Med,Woo, Bio	x	x	x	x
<i>Mallotus resinonsus</i> Merr.	Bùm bụp resin	Euphorbiaceae	Tree	Woo	x	x		
<i>Phyllanthus amarus</i> Schum.		Euphorbiaceae	Shrub	Med			x	
<i>Phyllanthus emblica</i> L.	Chùm ruột túi	Euphorbiaceae	Tree	Edi, Medt,Bio	x	x	x	x
<i>Phyllanthus reticulatus</i> Poir.	Phèn đen	Euphorbiaceae	Shrub	Med	x	x	x	x
<i>Ricinus communis</i> L.	Thầu dầu	Euphorbiaceae	Tree	Med	x	x	x	x
<i>Sapium discolor</i> (Benth.) Muell.Arg.		Euphorbiaceae	Tree	Woo, Bio			x	
<i>Sapium rotundifolium</i> Hemsl		Euphorbiaceae	Tree	Woo			x	
<i>Sapium sebiferum</i> Roxb.	Sòi trắng	Euphorbiaceae	Tree	Med,Woo	x	x	x	
<i>Sauropus assimilis</i> Thwaites	Bồ ngót nhai	Euphorbiaceae	Shrub	Edi	x	x		
<i>Sauropus macranthus</i> Hassk	Bồ ngót hoa to	Euphorbiaceae	Shrub		x	x		
<i>Sauropus racemosus</i> Beille	Ngót hoa thân rậm	Euphorbiaceae	Shrub		x	x	x	
<i>Strophoblachia fimbricalyx</i> Boerl.	Mồng sa	Euphorbiaceae	Shrub	Edi	x	x		
<i>Sumbaviopsis albicans</i> J.J.Sm.	Nàng nàng	Euphorbiaceae	Tree	Woo	x	x		

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<i>Suregada multiflora</i> Braille.	Mẩn mây	Euphorbiaceae	Tree	Med, Woo	x	x	x	x
<i>Triadica cochinchinensis</i> Lour.	Sòi tía	Euphorbiaceae	Tree	Woo, Bio	x	x		x
<i>Triadica rotundifolia</i> Thin	Sòi lá tròn	Euphorbiaceae	Tree	Med, Bio	x	x		x
<i>Trigonostemon flavidus</i> Gagnep.	Mồng	Euphorbiaceae	Tree		x	x		
<i>Trigonostemon stellaris</i> Airy-Shaw	Tam thụ hùng sao	Euphorbiaceae	Tree	Woo	x	x		x
<i>Vernicia fordii</i> (Hemsl.) Airy-Shaw		Euphorbiaceae	Tree	Woo, Bio			x	
<i>Vernicia montana</i> Lour.	Trầu	Euphorbiaceae	Tree	Med, Woo, Bio	x	x	x	x
<i>Abrus precatorius</i> L.	Cam thảo	Fabaceae	Liana	Med	x	x	x	x
<i>Acacia coccinna</i> DC.	Keo đẹp	Fabaceae	Liana		x	x		x
<i>Acacia megaladenda</i> Desv.	Keo tuyến to	Fabaceae	Liana		x	x		
<i>Acacia pennata</i> Willd.	Me dầy	Fabaceae	Liana		x	x		
<i>Acacia pruinescens</i> Kunz	Keo phân	Fabaceae	Liana		x	x		
<i>Acacia tonkinensis</i> Nielsen	Keo bắc bộ	Fabaceae	Liana		x	x		
<i>Adenanthera microsperma</i> Teysm. & Binn.	Trạch quạch hạt nhỏ	Fabaceae	Tree	Woo, Orn	x	x		x
<i>Adenanthera pavonina</i> L.		Fabaceae	Tree	Orn, Woo			x	
<i>Albizia chinensis</i> Merr.	Sống rần	Fabaceae	Tree	Woo	x	x	x	x
<i>Albizia lucidior</i> I.C.Nielsen	Bản xe	Fabaceae	Tree	Woo	x	x		x
<i>Albizia procera</i> Benth.	Mu cua	Fabaceae	Tree	Woo, Orn	x	x		
<i>Archidendron balansae</i> I.Niels.		Fabaceae	Tree	Woo			x	
<i>Archidendron clypearia</i> I. Nielsen	Mán đĩa	Fabaceae	Tree	Woo	x	x	x	x
<i>Archidendron eberhardtii</i> I.C.Nielsen	Mán đĩa eberhardt	Fabaceae	Tree	Woo	x	x		
<i>Archidendron robinsonii</i> I.Nielsen.	Dái heo	Fabaceae	Tree	Woo	x	x		x
<i>Archidendron turgidum</i> I. Nielsen	Đái bò	Fabaceae	Tree	Woo	x	x		x
<i>Bauhinia cardinalis</i> Pierre ex Gagnep	Móng bò đỏ	Fabaceae	Liana	Orn				x

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<i>Bauhinia championii</i> Benth.	Móng bò champion	Fabaceae	Liana		x	x		
<i>Bauhinia coccinea</i> DC.	Quạch	Fabaceae	Liana		x	x	x	
<i>Bauhinia ornata</i> var. <i>balansae</i> K. & S. Larsen	Máu đỏ	Fabaceae	Liana	Orn	x	x		x
<i>Bauhinia pyrroclada</i> Drake	Móng bò lửa	Fabaceae	Liana	Med,Orn	x	x		x
<i>Bauhinia scandens</i> L.	Móng bò leo	Fabaceae	Liana		x	x		
<i>Bauhinia touranensis</i> Gagnep	Móng bò đà nẵng	Fabaceae	Liana		x	x		
<i>Bauhinia viridescens</i> Desv	Móng bò xanh lục	Fabaceae	Liana		x	x		
<i>Bauhinia wallichii</i> Macbride	Móng bò bông to	Fabaceae	Liana		x	x		
<i>Caesalpinia latisiliqua</i> (Verdecchia et al.)Hatt		Fabaceae	Liana	Med	x	x	x	x
<i>Caesalpinia minax</i> Hance	Vuốt hùm	Fabaceae	Shrub	Med	x	x		
<i>Callerya cinerea</i> Benth.	Mát tro	Fabaceae	Liana	Bio	x	x	x	x
<i>Callerya cochinchinensis</i> (Gagnep.) Schot		Fabaceae	Liana	Poi			x	
<i>Canavalia ensiformis</i> (L.) DC.		Fabaceae	Liana	Edi			x	
<i>Codariocalyx motorius</i> Ohashi	Thóc lép động	Fabaceae	Shrub		x	x	x	x
<i>Crotalaria acicularis</i> Buch.-Ham. ex Benth.	Sục sặc kim	Fabaceae	Shrub	Med				x
<i>Crotalaria albida</i> Heyne ex Roth	Lục lạc trắng	Fabaceae	Herb	Med	x	x		
<i>Crotalaria chinensis</i> L.	Sục sặc trung quốc	Fabaceae	Herb		x	x		
<i>Crotalaria sessilifolia</i> L.	Sục sặc không cọng	Fabaceae	Herb	Med	x	x		
<i>Dalbergia assamica</i> Benth	Trắc assam	Fabaceae	Tree	Woo	x	x		

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<i>Dalbergia multiflora</i> Prain	Trác nhiều hoa	Fabaceae	Tree	Woo	x	x		x
<i>Derris balansae</i> Gagnep.	Cóc kèn balansae	Fabaceae	Liana	Med	x	x		x
<i>Derris elliptica</i> (Roxb.) Benth		Fabaceae	Liana	Poi			x	
<i>Desmodium heterophyllum</i> DC.	Tràng quả dị diệp	Fabaceae	Shrub	Med	x	x		x
<i>Desmodium longipes</i> Craib.	Tràng quả dài	Fabaceae	Herb	Med	x	x		
<i>Desmodium triflorum</i> DC.	Tràng quả ba hoa	Fabaceae	Herb	Med	x	x		
<i>Desmodium velutinum</i> DC.	Tần	Fabaceae	Herb	Med,Bio	x	x		
<i>Entada phaseoloides</i> (L.) Merr	Bàm bám	Fabaceae	Liana	Poi	x	x		
<i>Entada pursaetha</i> A. P. DC.		Fabaceae	Liana	Poi			x	
<i>Erythrina variegata</i> L.	Vông nem	Fabaceae	Tree	Edi, Woo, Orn, Med	x	x	x	x
<i>Gleditsia australis</i> F.B.Forbes & Hemsl.	Bò kết rừng	Fabaceae	Tree	Woo	x	x		x
<i>Gymnocladus angustifolius</i> J.E.Vidal	Lôi khoai	Fabaceae	Tree	Woo	x	x		
<i>Indigofera galeoides</i> DC.	Chàm quả nhọn	Fabaceae	Herb	Bio	x	x	x	
<i>Indigofera zollingeriana</i> Miq.	Chàm cánh rãnh	Fabaceae	Shrub	Bio	x	x		x
<i>Lysidice rhodostegia</i> Hance	Mí	Fabaceae	Tree	Woo,Orn	x	x	x	x
<i>Millettia pachyloba</i> Drake		Fabaceae	Shrub	Poi			x	
<i>Mimosa balansae</i> I.Nielsen	Trinh nữ balansae	Fabaceae	Shrub		x	x		
<i>Mimosa diplotricha</i> C.Wright ex Sauvalle	Trinh nữ móc	Fabaceae	Shrub		x	x	x	x
<i>Mimosa pudica</i> L.	Trinh nữ	Fabaceae	Herb	Med	x	x		x
<i>Mucuna bracteata</i> Kurz		Fabaceae	Liana	Med, Poi			x	
<i>Ormosia balansae</i> Drake		Fabaceae	Tree	Woo			x	
<i>Ormosia dasycarpa</i> Jack		Fabaceae	Tree	Woo			x	
<i>Ormosia emarginata</i> Benth.	Ràng ràng lốm	Fabaceae	Tree	Woo	x	x		
<i>Ormosia pinnata</i> Merr.	Ràng ràng xanh	Fabaceae	Tree	Woo	x	x		x

Scientific name	Vietnamese name	Family	Plant habit	Use	Cham Chu	Bac Me	Phia Oac	Nam Xuan Lac
<i>Peltophorum dasyrrhachis</i> var. <i>tonkinense</i> (Pierre) K.Larsen & S.S.Larsen	Lim xẹt	Fabaceae	Tree	Woo, Orn	x	x	x	x
<i>Phyllodium elegans</i> Desv.	Đồng tiền lông	Fabaceae	Tree	Med				x
<i>Pueraria montana</i> Merr.	Sắn rừng dây	Fabaceae	Liana	Med	x	x	x	x
<i>Pueraria phaseoloides</i> (Roxb.) Benth.		Fabaceae	Liana	Edi			x	
<i>Sacara indica</i> L.	Vàng anh	Fabaceae	Tree	Orn	x	x		
<i>Saraca dives</i> Pierre	Vàng anh pierre	Fabaceae	Tree	Woo,Orn			x	x
<i>Senna timoriensis</i> Irwin & Barneby	Muồng đỏ	Fabaceae	Shrub	Med	x	x		
<i>Senna tora</i> Roxb.	Muồng hôi	Fabaceae	Herb	Med	x	x	x	x
<i>Tadehagi triquetum</i> Ohashi	Tràng quả ba cạnh	Fabaceae	Herb	Med	x	x		
<i>Zenia insignis</i> Chun.	Muồng trắng	Fabaceae	Tree	Woo	x	x	x	x
<i>Castanopsis cerebrina</i> (Hickel & A.Camus) Barnett		Fagaceae	Tree	Woo			x	
<i>Castanopsis chinensis</i> (Spreng.) Hance	Dẻ gai	Fagaceae	Tree	Woo, Edi		x	x	x
<i>Castanopsis chinensis</i> Hance	Dẻ gai	Fagaceae	Tree	Edi, Woo, Bio	x			
<i>Castanopsis echinocarpa</i> Hook.f.		Fagaceae	Tree	Woo	x		x	
<i>Castanopsis fissa</i> Rehder & E.H.Wilson	Dẻ đầu nứt	Fagaceae	Tree	Woo	x	x	x	x
<i>Castanopsis formosana</i> Hayata	Cà ổi đài loan	Fagaceae	Tree	Woo	x	x		x
<i>Castanopsis indica</i> A.DC.	Cà ổi ấn độ	Fagaceae	Tree	Edi, Woo	x	x	x	x
<i>Lithocarpus areca</i> (Hickel & A. Camus) A. Camus	Dẻ cau	Fagaceae	Tree	Woo				x
<i>Lithocarpus bacgiangensis</i> (Hickel & A. Camus) A. Camus		Fagaceae	Tree	Woo, Edi	x	x	x	
<i>Lithocarpus balansae</i> A. Camus	Sồi đá lá mác	Fagaceae	Tree	Woo	x	x	x	

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<i>Lithocarpus baviensis</i> A. Camus	Giẻ cau ba vì	Fagaceae	Tree	Woo				x
<i>Lithocarpus bonnetii</i> (Hickel & A. Camus) A. Camus	Dẻ đá tuyên quang	Fagaceae	Tree	Woo	x			
<i>Lithocarpus corneus</i> (Lour.) Rehder		Fagaceae	Tree	Woo			x	
<i>Lithocarpus fenestratus</i> (Roxb.) Rehd	Dẻ lỗ	Fagaceae	Tree	Woo		x	x	
<i>Lithocarpus finettii</i> (Hickel & A. Camus) A. Camus		Fagaceae	Tree	Woo			x	
<i>Lithocarpus gigantophyllus</i> (Hickel & A. Camus) A. Camus	Dẻ lá to	Fagaceae	Tree	Woo	x	x		x
<i>Lithocarpus sp.1</i>	Dẻ lá to	Fagaceae	Tree			x		
<i>Lithocarpus sp.2</i>	Dẻ	Fagaceae	Tree	Woo	x			
<i>Lithocarpus sp.3</i>	Dẻ	Fagaceae	Tree	Woo			x	
<i>Lithocarpus stenopus</i> (Hickel & A. Camus) A. Camus		Fagaceae	Tree	Woo			x	
<i>Lithocarpus vestitus</i> (Hickel & A. Camus) A. Camus		Fagaceae	Tree	Woo			x	
<i>Quercus acutissima</i> Carruth	Sồi nhọn	Fagaceae	Tree	Woo				x
<i>Quercus bambusaefolia</i> Hance in Seem.	Sồi lá tre	Fagaceae	Tree	Woo	x	x		x
<i>Quercus myrsinifolia</i> Blume		Fagaceae	Tree	Woo			x	
<i>Quercus platycalyx</i> Hickel & A. Camus	Dẻ cau	Fagaceae	Tree	Woo	x	x	x	
<i>Flacourtia indica</i> (Burm. f.) Merr		Flacourtiaceae	Shrub	Edi			x	
<i>Flacourtia rukam</i> Zoll. & More		Flacourtiaceae	Shrub	Edi			x	
<i>Itoa orientalis</i> L.		Flacourtiaceae	Tree	Woo			x	
<i>Aucuba japonica</i> Thunb.	Ô rô bà	Garryaceae	Shrub	Med	x	x	x	
<i>Crawfurdia pasquieri</i> Merr.		Gentianaceae	Liana	Orn			x	
<i>Fagraea ceilanica</i> Thunb.	Trai tai	Gentianaceae	Tree	Med, Woo	x	x		

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<i>Strychnos axillaris</i> Colebr.	Mã tiền tử	Gentianaceae	Liana	Poi	x	x		
<i>Strychnos ignatii</i> Berg.	Hoàng nàn	Gentianaceae	Liana	Poi	x	x		
<i>Tripterospermum brevidentatum</i> S. Hul		Gentianaceae	Liana				x	
<i>Geranium thunbergii</i> Siebold ex Lindl. & Paxton	Mỏ hạc	Geraniaceae	Herb					x
<i>Aeschynanthus acimunatus</i> Wall. ex A. DC	Son môi	Gesneriaceae	Epiph.	Orn, Med	x	x		x
<i>Aeschynanthus bracteatus</i> Wall. ex A.DC.		Gesneriaceae	Epiph.	Orn			x	
<i>Beccarinda tonkinensis</i> (Pell.) Burt		Gesneriaceae	Herb	Orn			x	
<i>Boicea porosa</i> Clarke	Bê-ca sốp	Gesneriaceae	Herb	Orn	x	x		x
<i>Chirita annamensis</i> Pell	Ri ta trung bộ	Gesneriaceae	Herb		x	x		
<i>Chirita colaniae</i> Pellegr.		Gesneriaceae	Herb	Orn			x	
<i>Chirita cynostyla</i> Burt	Ri-ta thiên nga	Gesneriaceae	Herb	Orn	x	x		x
<i>Chirita gemella</i> D.Wood.	Ri-ta một cặp	Gesneriaceae	Herb		x	x		
<i>Chirita swinglei</i> W.T.Wang	Song quả balansa	Gesneriaceae	Herb	Orn	x	x		x
<i>Didymocarpus bonii</i> Pellegr.	Song quả bon	Gesneriaceae	Shrub		x	x		
<i>Didymocarpus pulcher</i> Clarke	Song quả đẹp	Gesneriaceae	Shrub		x	x		
<i>Lysionotus pauciflorus</i> Maxim	nở lưng ít hoa	Gesneriaceae	Epiph.	Orn, Med	x	x	x	x
<i>Ornithoboea parishii</i> Clarke	Điều bê parish	Gesneriaceae	Herb	Orn	x	x		x
<i>Paraboea martinii</i> Burt	Song bê martin	Gesneriaceae	Shrub		x	x		
<i>Paraboea sinensis</i> (Oliv.) Burt	Song bê trung quốc	Gesneriaceae	Herb	Orn	x	x	x	x
<i>Primulina lungzhouensis</i> (W.T.Wang) Mich.Möller & A.Weber	Rhi ta	Gesneriaceae	Herb		x	x		

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<i>Primulina swinglei</i> (Merr.) Mich.Möller & A.Weber		Gesneriaceae	Herb	Orn		x	x	
<i>Exbuclandia populnea</i> (R.Br) R.Br		Hamamelidaceae	Tree	Woo			x	
<i>Exbucklandia tonkinensis</i> Steen.	Chấp tay bắc bộ	Hamamelidaceae	Tree	Woo				x
<i>Rhodoleia championii</i> Hook	Hồng quang	Hamamelidaceae	Tree	Orn, Woo			x	x
<i>Gyrocarpus americanus</i> Jacq.	Luân quả	Hernandiaceae	Tree	Woo, Fib	x	x		x
<i>Illigera celebica</i> Miq.	Liên đấng	Hernandiaceae	Liana	Med	x	x		x
<i>Aesculus assamica</i> Griff.	Kẹn	Hippocastanaceae	Tree	Woo, Med	x	x		x
<i>Hydrangea strigosa</i> Rehder		Hydrangeaceae	Shrub	Orn			x	
<i>Dichroa febrifuga</i> Lour.	Thường sơn	Hydrangeaceae	Shrub	Med	x	x	x	x
<i>Cratoxylum cochinchinense</i> Blume	Thành ngạnh	Hypericaceae	Tree	Med, Woo	x	x		x
<i>Cratoxylum formosum</i> subsp. <i>prumifolium</i> (Kurz) Gog.		Hypericaceae	Tree	Woo, Med			x	
<i>Hypericum japonicum</i> Thunb. ex Murr.		Hypericaceae	Shrub	Med, Orn			x	
<i>Curculigo capitulata</i> (Lour.) Kuntz.	Cò nóc	Hypoxidaceae	Herb	Med	x	x		x
<i>Curculigo orchioides</i> Gaertn		Hypoxidaceae	Herb	Med			x	
<i>Molineria capitulata</i> (Lour.) Herb.		Hypoxidaceae	Herb	Med			x	
<i>Molineria latifolia</i> (Dryand. ex W.T.Aiton) Herb. ex Kurz		Hypoxidaceae	Herb	Med			x	
<i>Gomphandra mollis</i> Merr.	Bồ béo mềm	Icacinaceae	Tree	Med	x	x	x	x
<i>Gomphandra quadrifida</i> (Blume) Sleum	Mao hùng tứ hùng	Icacinaceae	Tree	Med	x	x		
<i>Gomphandra tetrandra</i> (Wall.) Sleumer		Icacinaceae	Tree	Med			x	
<i>Gonocaryum lobbianum</i> Kurz	Cuống vàng	Icacinaceae	Tree	Med	x	x		x
<i>Ioides cirrhosa</i> Turcz	Dây mộc thông	Icacinaceae	Liana	Med	x	x	x	x
<i>Illicium majus</i> Hook. f. & Thomson	Đại hồi to	Illiciaceae	Tree	Woo	x	x		x

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<i>Illicium parvifolium</i> Merr.	Đại nhồi hoa nhỏ	Illiciaceae	Tree		x	x		
<i>Illicium difengbi</i> B. N. Chang	Hôi đá vôi	Illiciaceae	Tree	Med	x	x		x
<i>Illicium ternstroemioides</i> A.C.Sm.		Illiciaceae	Tree	Med			x	
<i>Iris japonica</i> Thunb.		Iridaceae	Herb	Orn			x	
<i>Etea chinensis</i> Hook. & Arn.	Lưỡi nai	Iteaceae	Tree	Woo	x	x	x	x
<i>Ixonanthes reticulata</i> Jack	Hà nụ	Ixonantheraceae	Tree	Woo	x	x		
<i>Engelhardtia roxburghiana</i> Lindl.	Chẹo roxburghi	Juglandaceae	Tree	Med,Woo,Bio	x	x	x	x
<i>Engelhardtia spicata</i> Lesch. ex Blume		Juglandaceae	Tree	Woo			x	
<i>Platycarya strobilacea</i> Siebold & Zucc.	Hòa hương	Juglandaceae	Tree	Woo	x	x		x
<i>Pterocarya stenoptera</i> C. DC.	Coi	Juglandaceae	Tree	Med,Bio,Woo	x	x		x
<i>Juncus effusus</i> L.		Juncaceae	Herb	Anv			x	
<i>Hydnocarpus anthemintica</i> Pierre		Kygelariaceae	Tree	Woo, Med			x	
<i>Acrocephalus indicus</i> (Burm. f.) Kuntze		Lamiaceae	Herb	Med			x	
<i>Callicarpa arborea</i> Roxb.	Tử châu gỗ	Lamiaceae	Tree	Woo, Med	x	x	x	x
<i>Callicarpa bracteata</i> Dop		Lamiaceae	Shrub	Med			x	
<i>Callicarpa brevipes</i> Hance	Tử châu cuống ngắn	Lamiaceae	Shrub	Med	x	x		
<i>Callicarpa cana</i> L.		Lamiaceae	Herb	Med			x	
<i>Callicarpa candicans</i> Hochr.	Tử châu chồi trắng	Lamiaceae	Shrub	Med	x	x	x	
<i>Callicarpa longifolia</i> Lamk.	Tử châu lá dài	Lamiaceae	Shrub	Med	x	x		
<i>Callicarpa macrophylla</i> Wall.	Tử châu lá to	Lamiaceae	Shrub	Med	x	x		
<i>Callicarpa repens</i> L.		Lamiaceae	Shrub	Med			x	
<i>Clerodendrum chinense</i> (Osbeck) Mabb.		Lamiaceae	Shrub	Med			x	

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<i>Clerodendrum chinense</i> (Osbeck) Mabb. var. <i>simplex</i> (Mold.) S.L.Chen	Bạch đồng nữ	Lamiaceae	Shrub	Med	x	x	x	x
<i>Clerodendrum cyrtophyllum</i> Turcz	Bộ mây	Lamiaceae	Shrub	Med			x	x
<i>Clerodendrum gaudichaudii</i> Dop	Ngọc nữ	Lamiaceae	Shrub	Med	x	x		
<i>Clerodendrum japonicum</i> (Thunb.) Sweet		Lamiaceae	Shrub	Med	x	x	x	x
<i>Clerodendrum paniculatum</i> L.		Lamiaceae	Shrub	Med			x	
<i>Clerodendrum tonkinensis</i> P.Dop	Ngọc nữ bắc bộ	Lamiaceae	Shrub	Med	x	x		x
<i>Elscholtzia winitiana</i> Craib.		Lamiaceae	Shrub	Med			x	
<i>Elscholtzia blanda</i> Benth.	Kinh giới rừng	Lamiaceae	Herb	Med, Bio	x	x		x
<i>Gmelina arborea</i> Roxb.		Lamiaceae	Tree	Woo	x	x	x	
<i>Gmelina asiatica</i> L.	Tu hú	Lamiaceae	Tree	Orn	x	x		
<i>Gmelina lecomtei</i> Dop	Tré	Lamiaceae	Tree	Woo				x
<i>Gomphostemma grandiflorum</i> Doan	Đinh hùng hoa to	Lamiaceae	Herb	Med	x	x		x
<i>Gomphostemma leptodon</i> Dunn	Đinh hùng răng hẹp	Lamiaceae	Herb	Med	x	x		
<i>Isodon ternifolia</i> Kudo	Đẳng nha ba lá	Lamiaceae	Herb	Med	x	x		x
<i>Lantana camara</i> L.	Thơm ổi	Lamiaceae	Shrub	Med,Orn	x	x	x	x
<i>Mosla cavaleriei</i> Levl.		Lamiaceae	Herb	Med			x	
<i>Mosla dianthera</i> Maxim.	Lá men	Lamiaceae	Herb	Med	x	x		x
<i>Ocimum tomentosa</i>		Lamiaceae	Herb	Med			x	
<i>Orthosiphon spiralis</i> Merr.	Râu mèo	Lamiaceae	Herb	Med,Bio	x	x		x
<i>Premna chevalieri</i> Dop	Cách chevalier	Lamiaceae	Shrub	Med	x	x		
<i>Premna corymbosa</i> Rottb. Et Willd.	Vọng cách	Lamiaceae	Tree	Med	x	x		x
<i>Premna interrupta</i> Wall. ex Schauer	Cách gián đoạn	Lamiaceae	Shrub	Med	x	x		
<i>Premna scandens</i> Roxb.		Lamiaceae	Herb	Med			x	
<i>Salvia scapiformis</i> Hance	Cứu thảo trực phát hoa	Lamiaceae	Herb	Med	x	x		x

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<i>Stachytarpheta jamaicensis</i> (L.) Vahl		Lamiaceae	Herb	Med			x	
<i>Stutellaria javanica</i> Jungh	Tuần java	Lamiaceae	Shrub	Med	x	x		x
<i>Vitex negundo</i> L.	Ngũ trảo	Lamiaceae	Shrub	Med,Orn	x	x		
<i>Vitex peduncularis</i> Wall. ex Schauer	San trắng	Lamiaceae	Tree	Orn	x	x		
<i>Vitex quinata</i> F.N. Will		Lamiaceae	Tree	Woo			x	
<i>Vitex trifolia</i> L.	Đền 3 lá	Lamiaceae	Tree	Orn	x	x		x
<i>Holboellia grandiflora</i> Reaub	Hòn bon hoa to	Lardizabalaceae	Liana			x	x	
<i>Actinodaphne ellipticibacca</i> Kosterm.	Bộ quả bầu dục	Lauraceae	Tree	Woo	x	x		
<i>Actinodaphne perlucida</i> Allen	Bộ suốt	Lauraceae	Tree			x		
<i>Actinodaphne pilosa</i> Merr.	Bộ lông	Lauraceae	Tree	Woo	x	x	x	x
<i>Actinodaphne sp.</i>	Bộ	Lauraceae	Tree		x			
<i>Alseodaphne sichourensis</i> H.W.Li	Re lá xoài	Lauraceae	Tree	Woo				x
<i>Alseodaphne tonkinensis</i> H.Liu	Vàng trắng bắc bộ	Lauraceae	Tree	Woo	x	x	x	
<i>Beilschmiedia balansae</i> Lecomte	Chấp quả tròn	Lauraceae	Tree	Woo				x
<i>Beilschmiedia fordii</i> Dunn	Chấp ford	Lauraceae	Tree	Woo	x	x	x	
<i>Beilschmiedia glauca</i> S.K.Lee & L.F.Lau	Két mốc	Lauraceae	Tree			x		
<i>Beilschmiedia laevis</i> Allen		Lauraceae	Tree	Woo			x	
<i>Beilschmiedia percoriacea</i> C.K. Allen	Chấp xanh	Lauraceae	Tree	Woo	x	x	x	
<i>Caryodaphnopsis tonkinensis</i> (H.Lec.) Airy-Shaw		Lauraceae	Tree	Woo			x	
<i>Caryodaphnopsis poilanei</i> Kosterm.	Cà lồ poilan	Lauraceae	Tree	Woo	x	x		x
<i>Cassytha filiformis</i> L.		Lauraceae	Epiph.	Med			x	
<i>Cinnamomum balansae</i> H. Lecomte	Gù hương	Lauraceae	Tree	Woo				x
<i>Cinnamomum bejolghota</i> Sweet	Re gừng	Lauraceae	Tree	Woo	x	x	x	
<i>Cinnamomum burmanii</i> Blume	Quế đen	Lauraceae	Tree	Med,Orn,Bio	x	x		x

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<i>Cinnamomum camphora</i> (L.) Presl.		Lauraceae	Tree	Bio, Woo, Med			x	
<i>Cinnamomum curvifolium</i> (Lour.) Ness		Lauraceae	Tree	Bio, Woo, Med	x	x	x	x
<i>Cinnamomum iners</i> Rienw. ex Blume	Rè hương	Lauraceae	Tree	Woo, Med	x	x		
<i>Cinnamomum parthenoxylon</i> (Jack) Meisn	Gù hương	Lauraceae	Tree	Woo, Med,	x			
<i>Cinnamomum verum</i> Presl.		Lauraceae	Tree	Bio, Woo, Med	x	x	x	x
<i>Cryptocarya chingii</i> Cheng	Cà đuối chình	Lauraceae	Tree	Woo	x	x	x	x
<i>Cryptocarya concinna</i> Hance	Cà đuối khéo	Lauraceae	Tree	Woo	x		x	
<i>Cryptocarya densiflora</i> Blume	Mò hoa dày	Lauraceae	Tree	Woo	x	x		
<i>Cryptocarya hainanensis</i> Merr	Mò hải nam	Lauraceae	Tree	Woo	x	x	x	x
<i>Cryptocarya lenticellata</i> H.Lec		Lauraceae	Tree	Woo			x	
<i>Lindera balansae</i> Lecomte		Lauraceae	Tree	Woo			x	
<i>Lindera glauca</i> Blume	Liên đàn mốc	Lauraceae	Tree	Woo	x	x	x	x
<i>Lindera racemosa</i> H.Lec		Lauraceae	Tree	Woo			x	
<i>Lindera rufa</i> Gamble	Liên đàn hung	Lauraceae	Tree	Woo	x	x		x
<i>Lindera spirei</i> Kosterm. sec. Phamh	Liên đàn spire	Lauraceae	Tree	Woo	x	x	x	x
<i>Litsea acutivena</i> Hayata	Bời lời gân nhọn	Lauraceae	Tree	Woo	x	x		
<i>Litsea brevipes</i> Kosrterm.	Bời lời chân ngắn	Lauraceae	Tree	Woo	x	x	x	
<i>Litsea cubeba</i> (Lour.) Pers.		Lauraceae	Tree	Bio, Woo, Edi, Med	x	x	x	x
<i>Litsea glutinosa</i> (Lour.) C. B. Rob.		Lauraceae	Tree	Woo			x	
<i>Litsea grandifolia</i> Lecomte	Bời lời lá to	Lauraceae	Tree	Woo				x
<i>Litsea lancifolia</i> (Roxb. ex Nees) Hook. f.	Bời lời lá thon	Lauraceae	Tree	Woo	x	x		
<i>Litsea lancifolia</i> var. <i>alternifolia</i> Meisn	Bời lời xen	Lauraceae	Tree	Woo	x	x		
<i>Litsea mollis</i> Hemsl.	Bời lời lá thon	Lauraceae	Tree	Woo				x

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<i>Litsea monopelata</i> Pers.	Bời lời một cánh hoa	Lauraceae	Tree	Med,Bio	x	x	x	x
<i>Litsea myristicifolia</i> (Wall. ex Nees) Hook.f.	Bời lời lá máu chó	Lauraceae	Tree	Woo	x	x		
<i>Litsea umbellata</i> Merr.	Bời lời hoa tán	Lauraceae	Tree	Woo	x	x	x	x
<i>Litsea verticillata</i> Hance	Bời lời vòng	Lauraceae	Tree	Woo	x	x		
<i>Machilus bonii</i> Lecomte	Vàng rên	Lauraceae	Tree	Woo	x	x	x	x
<i>Machilus chinensis</i> Hemsl.	Vàng trung quốc	Lauraceae	Tree	Woo	x	x	x	
<i>Machilus odoratissimus</i> Nees	Kháo nhậm	Lauraceae	Tree	Woo	x	x	x	x
<i>Machilus oreophila</i> Hance	Kháo háo mưa	Lauraceae	Tree	Woo	x	x		
<i>Machilus oreophila</i> Hance		Lauraceae	Tree	Woo			x	
<i>Machilus thunbergii</i> Sieb. & Zucc	Kháo thun	Lauraceae	Tree	Woo	x	x		x
<i>Neolitsea poilanei</i> Liou	Tân bời lời poilan	Lauraceae	Tree	Woo	x	x		
<i>Neolitsea polycarpa</i> H. Liu	Tân bời lời đa quả	Lauraceae	Tree	Woo	x	x		x
<i>Phoebe lanceolata</i> (Wall. ex Nees) Nees	Sự thon	Lauraceae	Tree	Woo	x	x	x	
<i>Phoebe macrocarpa</i> C.Y.Wu	Rè trắng quả to	Lauraceae	Tree	Woo	x	x	x	
<i>Barringtonia macrostachya</i> (Jack) Kurz	Lộc vùng chùm to	Lecythidaceae	Tree	Orn	x	x		
<i>Barringtonia racemosa</i> (L.) Spreng	Lộc vùng chùm	Lecythidaceae	Tree	Orn	x	x		
<i>Leea bracteata</i> CB.Clarke	Gối hạc lá hoa	Leeaceae	Shrub	Med				x
<i>Leea rubra</i> Blume ex Spreng.		Leeaceae	Shrub	Med			x	x
<i>Dianella ensifolia</i> DC.	Hương bài	Liliaceae	Herb	Med, Poi	x	x		x
<i>Fagraea ceilanica</i> Thunb.	Trai tai	Loganiaceae	Tree	Med,Woo				x
<i>Gelsemium elegans</i> (Gardn. & Champ.) Benth.		Gelsemiaceae	Liana	Poi	x	x	x	x
<i>Strychnos ignatii</i> Berg.	Hoàng nàn	Loganiaceae	Liana	Poi, Med				x

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<i>Helixanthera parasitica</i> Lour.	Tầm gửi kí sinh	Loranthaceae	Epiph.	Med	x	x	x	x
<i>Macrosolen bibracteolatus</i> Dans.	Đại cán	Loranthaceae	Epiph.	Med	x	x		x
<i>Scurrula parasitica</i> L.	Tầm gửi quả chùy	Loranthaceae	Epiph.	Med	x	x		
<i>Taxillus chinensis</i> Dans.	Hạt mộc trung quốc	Loranthaceae	Epiph.	Med	x	x	x	x
<i>Taxillus cordifolia</i> Ban	Tầm gửi lá hình tim	Loranthaceae	Epiph.	Med	x	x		
<i>Magnolia baillonii</i> Pierre		Magnoliaceae	Tree	Woo			x	
<i>Magnolia balansae</i> A.DC.	Giổi bắc	Magnoliaceae	Tree	Woo, , Edi	x	x		x
<i>Magnolia cathcartii</i> (Hook.f. & Thomson) Noot.		Magnoliaceae	Tree	Woo, Bio			x	
<i>Magnolia conifera</i> (Dandy) V.S.Kumar		Magnoliaceae	Tree	Woo, Bio	x	x	x	x
<i>Magnolia conifera</i> var. <i>chingii</i> (Dandy) V.S.Kumar		Magnoliaceae	Tree	Woo			x	
<i>Magnolia dandyi</i> Gagnep.		Magnoliaceae	Tree	Woo, Bio			x	
<i>Magnolia fistulosa</i> Dandy	Dạ hợp bông	Magnoliaceae	Tree	Woo				x
<i>Magnolia fordiana</i> var. <i>hainanensis</i> (Dandy) Noot.		Magnoliaceae	Tree	Woo, Bio			x	
<i>Magnolia foveolata</i> (Merr. ex Dandy) Figlar	Giổi lá láng	Magnoliaceae	Tree	Woo			x	x
<i>Magnolia grandis</i> (Hu & W.C.Cheng) V.S.Kumar	Mỡ lá to	Magnoliaceae	Tree			x		
<i>Magnolia hookeri</i> (Cubitt & W.W.Sm.) D.C.S.Raju & M.P.Nayar	Giổi móc	Magnoliaceae	Tree	Woo		x		x
<i>Magnolia insignis</i> Wall.	Mỡ đá	Magnoliaceae	Tree			x		
<i>Magnolia lanuginosa</i> (Wall.) Figlar & Noot.		Magnoliaceae	Tree	Woo, Bio			x	

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<i>Magnolia liliifera</i> (L.) Baill.	Dạ hợp	Magnoliaceae	Tree	Orn,	x	x		
<i>Magnolia martini</i> H.Lév.	Giổi martin	Magnoliaceae	Tree			x		
<i>Magnolia mediocris</i> (Dandy) Figlar	Giổi xanh	Magnoliaceae	Tree	Woo, , Edi	x			
<i>Woonyoungia septentrionalis</i> (Dandy) Y.W.Law	Miên mộc	Magnoliaceae	Tree			x		
<i>Abelmoschus crinitus</i> Wall.		Malvaceae	Shrub	Med			x	
<i>Abelmoschus moschatus</i> Medik.	Bụp vang	Malvaceae	Herb	Med	x	x		x
<i>Abroma augusta</i> (L.) Willd		Malvaceae	Herb	Med			c	
<i>Abutilon indicum</i> Sweet	Cối xay	Malvaceae	Herb	Med	x	x	x	x
<i>Bombax ceiba</i> L.	Gạo	Malvaceae	Tree	Med,Orn,Woo	x	x		x
<i>Burretiodendron hsienmu</i> W.Y.Chun & F.C.How	Nghiến	Malvaceae	Tree	Woo	x	x		x
<i>Byttneria aspera</i> Colebt.	Trôm neo	Malvaceae	Shrub		x	x		
<i>Colona scabra</i> Burret	Bồ an nhám	Malvaceae	Tree	Woo	x	x		x
<i>Commersonia bartramia</i> (L.) Merr.	Thung	Malvaceae	Tree	Med				x
<i>Commersonia platyphylla</i> Anch		Malvaceae	Tree	Woo				
<i>Corchorus capsularis</i> L.	Đay quả tròn	Malvaceae	Herb	Edi	x	x		
<i>Corchorus olitorius</i> L.	Đay quả dài	Malvaceae	Herb	Edi	x	x		
<i>Firmiana colorata</i> (Roxb.) R. Br	Trôm màu	Malvaceae	Tree	Med,Orn, Woo	x	x		
<i>Firmiana simplex</i> W.Wright	Trôm màu	Malvaceae	Tree	Med,Orn, Woo			x	x
<i>Grewia asiatica</i> L.	Cò ke châu á	Malvaceae	Tree	Med,Woo,Fib	x	x		x
<i>Grewia hirsuta</i> Vahl	Cò ke lông	Malvaceae	Tree	Med,Woo,Fib	x	x		x
<i>Grewia urenifolia</i> Gagnep.	Cò ke lá ké	Malvaceae	Tree	Woo, Fib	x	x		
<i>Helicteres angustifolia</i> L.	Dó hợp	Malvaceae	Shrub	Med	x	x	x	x
<i>Helicteres hirsuta</i> Lour.		Malvaceae	Shrub	Med			x	x
<i>Helicteres lanceolata</i> DC.		Malvaceae	Shrub	Med			x	
<i>Hibicus mutabilis</i> L.	Phù dung	Malvaceae	Shrub	Orn	x	x		
<i>Hibiscus sabdariffa</i> L.		Malvaceae	Shrub				x	
<i>Kydia glabrescens</i> Mast.		Malvaceae	Tree	Woo			x	

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<i>Malvastrum coromandelianum</i> Garcke.	Hoàng manh	Malvaceae	Shrub	Med	x	x		x
<i>Microcos paniculata</i> L.	Cò ke	Malvaceae	Tree	Fib	x	x	x	x
<i>Pterospermum angustilifolia</i> Tard.		Malvaceae	Tree	Woo			x	
<i>Pterospermum argenteum</i> Tardieu	Lòng mang bạc	Malvaceae	Tree	Woo	x	x		x
<i>Pterospermum grandiflorum</i> Craib	Mang hoa to	Malvaceae	Tree	Woo	x	x		x
<i>Pterospermum heterophyllum</i> Hance	Mang lá khác	Malvaceae	Tree	Woo	x	x	x	
<i>Pterospermum lanceaefolium</i> Roxb.		Malvaceae	Tree	Woo			x	
<i>Pterospermum truncatolobatum</i> Gagnep.	Mang cụt	Malvaceae	Tree	Woo	x	x		x
<i>Sida corfolia</i> L.	Bái bò	Malvaceae	Shrub	Med	x	x		x
<i>Sida rhombifolia</i> L.	Bái tà	Malvaceae	Shrub	Med	x	x		x
<i>Sterculia foetida</i> L.	Trôm hôi	Malvaceae	Tree	Med, Woo	x	x		
<i>Sterculia hymenocalyx</i> K. Schum.	Trôm đài màng	Malvaceae	Tree	Med, Woo	x	x		x
<i>Sterculia lanceolata</i> Cav.	Trôm thon	Malvaceae	Tree	Woo, Med, Orn	x	x	x	x
<i>Sterculia nobilis</i> Smith	Trôm quí	Malvaceae	Tree		x	x		
<i>Sterculia parviflora</i> Roxb.	Trôm hoa nhỏ	Malvaceae	Tree		x	x		x
<i>Sterculia tonkinensis</i> Aug. DC.	Trôm bắc bộ	Malvaceae	Shrub	Edi				x
<i>Urena lotaba</i> L.	Ké hoa tà	Malvaceae	Shrub	Med	x	x	x	x
<i>Donax cannaeformis</i> Rolfe	Lùn dòng	Marantaceae	Shrub		x	x		
<i>Phrynium imbricatum</i> Roxb.	Dong nếp	Marantaceae	Shrub		x	x	x	x
<i>Phrynium parviflorum</i> Roxb.		Marantaceae	Shrub	Med			x	
<i>Phrynium placentarium</i> Merr.	Dong gân lông	Marantaceae	Herb		x	x		x
<i>Paris caobangensis</i> Y.H.Ji, H.Li & Z.K.Zhou		Melanthiaceae	Shrub	Med			x	
<i>Paris polyphylla</i> Smith		Melanthiaceae	Shrub	Med			x	
<i>Allomorpha arborescens</i> Guillaum.	Đa hình cây	Melastomataceae	Herb	Med	x	x		x
<i>Blastus cochinchinensis</i> Lour.	Bo bắc bộ	Melastomataceae	Herb	Med	x	x		x
<i>Blastus eberhardtii</i> Guillaum		Melastomataceae	Shrub				x	

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<i>Medinilla assamica</i> (C.B. CL.) Chen.		Melastomataceae	Shrub		x	x	x	
<i>Melastoma candidum</i> D.Don	Mua vảy	Melastomataceae	Shrub	Med	x	x	x	x
<i>Melastoma malabathrica</i> L.	Mua da hung	Melastomataceae	Shrub	Edi, Med	x	x	x	x
<i>Melastoma sanguineum</i> Sims	Mua bà	Melastomataceae	Shrub		x	x		
<i>Memecylon edule</i> Roxb.	Sâm bù	Melastomataceae	Tree	Woo	x	x	x	x
<i>Memecylon scutellatum</i> Naud.	Sâm núi	Melastomataceae	Tree	Woo	x	x		x
<i>Osbeckia chinensis</i> L.	Mua tép	Melastomataceae	Herb	Med	x	x	x	x
<i>Oxyspora paniculata</i> (D. Don) DC.		Melastomataceae	Herb	Med			x	
<i>Phyllagathis cavaleriei</i> (H. Léveillé & Vaniot) Guillaumin	Mua cavaleri	Melastomataceae	Herb	Med	x	x		
<i>Phyllagathis tonkinensis</i> (Cogn.) Stapf		Melastomataceae	Shrub	Med			x	
<i>Pseudodissochaeta subsessilis</i> (Craib) Nayar.	Mua vảy	Melastomataceae	Herb	Med	x	x		x
<i>Sarcopyramis napalensis</i> Wall.		Melastomataceae	Herb	Med			x	
<i>Sonerila cantonensis</i> Stapf	Son linh thượng hải	Melastomataceae	Herb	Med	x	x		x
<i>Sonerila plagiocardia</i> Diels		Melastomataceae	Herb	Edi, Med			x	
<i>Aglaia duperreana</i> Pierre	Ngâu	Meliaceae	Tree	Orn	x	x		
<i>Aglaia elaeagnoidea</i> Benth.	Ngâu nhót	Meliaceae	Tree	Woo	x	x		x
<i>Aglaia lawii</i> (Wight) Sald. ex Ram	Gội duyên hải	Meliaceae	Tree	Woo	x	x		
<i>Aglaia odorata</i> Lour.	Ngâu rừng	Meliaceae	Tree	Woo	x	x		x
<i>Aglaia spectabilis</i> Jain & Bennet.	Gội nếp	Meliaceae	Tree	Woo, Orn	x	x	x	x
<i>Aphanamixis grandiflora</i> Blume	Gội gác	Meliaceae	Tree	Woo, Orn			x	x
<i>Aphanamixis polystachya</i> R.N. Parker	Gội nước	Meliaceae	Tree	Woo	x	x		
<i>Chisocheton paniculatus</i> (Roxb.) Hiern.		Meliaceae	Tree	Woo			x	
<i>Chukrasia tabularis</i> A.Juss.	Lát hoa	Meliaceae	Tree	Woo, Orn	x	x		x

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<i>Cipadessa baccifera</i> Miq.	Cà muối	Meliaceae	Tree	Med	x	x		x
<i>Dysoxylum binectariferum</i> Hook.f.ex Bedd.	Hoàng đàn hai tuyền	Meliaceae	Tree	Woo	x	x		
<i>Dysoxylum cochinchinensis</i> Pierre	Hoàng đàn nam bộ	Meliaceae	Tree	Woo	x	x		
<i>Dysoxylum excelsum</i> Blume	huỳnh đường cao	Meliaceae	Tree	Woo		x		x
<i>Heynea trijuga</i> Roxb. ex Sims	Sang nước	Meliaceae	Tree	Woo				x
<i>Melia azedarach</i> L.	Xoan	Meliaceae	Tree	Med, Woo	x	x	x	x
<i>Mischocarpus sundaicus</i> Blume	Nây sunda	Meliaceae	Tree	Woo	x	x		x
<i>Toona sinensis</i> (Juss.) M.Roem.		Meliaceae	Tree	Woo			x	
<i>Toona surenii</i> Merr.	Trương vân	Meliaceae	Tree	Woo	x	x		x
<i>Trichilia connaroides</i> Benth.	Hải mộc	Meliaceae	Tree	Woo	x	x		
<i>Walsura cochinchinensis</i> Harms.	Nhãn mọi	Meliaceae	Tree		x	x		x
<i>Walsura robusta</i> Roxb.		Meliaceae	Herb				x	
<i>Anamirta cocculus</i> (L.) Wight & Arn	Dây đông cầu	Menispermaceae	Liana			x		
<i>Cissampelos pareira</i> L.		Menispermaceae	Liana	Med			x	
<i>Cyclea polypetala</i> Dunn	Sâm nhiều cánh hoa	Menispermaceae	Liana	Med	x	x		
<i>Fibraurea recisa</i> Pierre		Menispermaceae	Liana	Med			x	
<i>Stephania dielsiana</i> C. Y. Wu	Củ dòm	Menispermaceae	Liana	Med	x	x	x	x
<i>Tinospora sinensis</i> (Lour.) Merr.	Dây đau xương	Menispermaceae	Liana	Med	x	x		
<i>Tinospora tomentosa</i> Miers		Menispermaceae	Liana	Med			x	
<i>Fibraurae recissa</i> Pierre	Dây nam hoàng	Menispermaceae	Liana	Med,Bio	x	x		x
<i>Fibraurae tinctoria</i> Lour.	Nam hoàng nhuộm	Menispermaceae	Liana	Med,Bio	x	x		x
<i>Stephania japonica</i> Miers	Thiên kim đằng	Menispermaceae	Liana	Med	x	x		x
<i>Stephania rotunda</i> Lour.	Củ bình vôi	Menispermaceae	Liana	Med	x	x	x	x
<i>Tinospora sagittata</i> (Oliv.) Gagnep	Củ đằng	Menispermaceae	Liana	Med				x

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<i>Antiaris toxicaria</i> Lesch.	Sui	Moraceae	Tree	Med, Poi			x	x
<i>Artocarpus heterophyllus</i> Lam.	Mít	Moraceae	Tree	Med, Woo, Edi	x	x		
<i>Artocarpus lakoocha</i> Roxb. Ex Buch-Ham.		Moraceae	Tree	Woo, Edi	x	x	x	
<i>Artocarpus tonkinensis</i> A. Chev. ex Gagnep	Chay bắc bộ	Moraceae	Tree	Med, Woo, Edi	x	x		
<i>Broussonetia papyrifera</i> L'.Her. ex Vent.	Dương	Moraceae	Tree	Med, Anv, Fib	x	x	x	x
<i>Ficus abelii</i> Miq.	Sung chè	Moraceae	Shrub		x	x		
<i>Ficus altissima</i> Blume	Đa tía	Moraceae	Tree	Orn	x	x	x	x
<i>Ficus auriculata</i> Lour.	Vả	Moraceae	Tree	Edi, Med	x	x	x	
<i>Ficus benjamina</i> L.	Sanh	Moraceae	Tree	Orn	x	x	x	x
<i>Ficus callosa</i> Willd.	Si	Moraceae	Tree	Orn	x	x		
<i>Ficus cyrtophylla</i> (Wall. ex Miq.) Miq.	Sung đại	Moraceae	Shrub		x	x		x
<i>Ficus elastica</i> Roxb. ex Horn.	Đa búp đỏ	Moraceae	Tree	Orn	x	x		x
<i>Ficus fulva</i> Reinw. ex Blume		Moraceae	Tree	Anv			x	
<i>Ficus gibbosa</i> Blume	Sung bầu	Moraceae	Tree		x	x		x
<i>Ficus glaberrima</i> Blume	Đa trụi	Moraceae	Tree	Woo	x	x		x
<i>Ficus heterophylla</i> L.f.	Vú bò	Moraceae	Tree	Med	x	x		x
<i>Ficus hirta</i> Vahl.	Ngái	Moraceae	Shrub	Med, Anv	x	x	x	x
<i>Ficus hispida</i> L.f.		Moraceae	Tree	Anv	x	x	x	
<i>Ficus hispida</i> var. <i>badiostrigosa</i> Corner	Sung đất	Moraceae	Tree	Anv	x	x		x
<i>Ficus nervosa</i> Heyne ex Roth.	Đa gân	Moraceae	Tree	Woo, Orn	x	x		x
<i>Ficus obscura</i> Blume	Sung lá cong	Moraceae	Tree	Anv	x	x		x
<i>Ficus racemosa</i> L.	Sung	Moraceae	Tree	Edi, Med, Orn, Orn	x	x	x	x
<i>Ficus sagittata</i> Vahl	Sung đầu tên	Moraceae	Tree					x

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<i>Ficus saxophila</i> subsp. <i>cardiophylla</i> (Merr.) C.C.Berg		Moraceae	Tree				x	
<i>Ficus semicordata</i> Buch.-Ham. ex Sm.	Sung bán tâm	Moraceae	Tree		x	x		x
<i>Ficus septica</i> Burm.f.	Sung rừng	Moraceae	Tree		x	x	x	x
<i>Ficus stenophylla</i> Hemsl.	Sung lá hẹp	Moraceae	Tree					x
<i>Ficus subpyriformis</i> Hook et Arm		Moraceae	Tree				x	
<i>Ficus sundaica</i> Blume	Sung sunda	Moraceae	Tree					x
<i>Ficus tikoua</i> Bureau		Moraceae	Tree				x	
<i>Ficus variegata</i> Blume	Sung trỏ	Moraceae	Tree		x	x		x
<i>Ficus variolosa</i> Lindl. ex Benth.		Moraceae	Tree				x	
<i>Ficus vasculosa</i> Wall. ex Miq.	Đa bông	Moraceae	Tree	Woo	x	x		x
<i>Ficus vilosa</i> Blume	Sung lông	Moraceae	Tree		x	x		x
<i>Maclura cochinchinensis</i> Corn.	Mỏ quạ	Moraceae	Shrub	Med	x	x	x	x
<i>Morus alba</i> L.	Dâu tằm	Moraceae	Tree	Edi, Med	x	x	x	
<i>Morus macroura</i> Miq.	Dâu chùm dài	Moraceae	Tree	Woo	x	x		x
<i>Streblus asper</i> Lour.	Duối nhám	Moraceae	Tree	Woo	x	x	x	x
<i>Streblus ilicifolius</i> Corn.	Ô rô	Moraceae	Tree	Woo	x	x	x	x
<i>Streblus macrophyllus</i> Blume	Mạy tèo	Moraceae	Tree		x	x	x	
<i>Streblus tonkinensis</i> Corn.	Tèo noong	Moraceae	Tree		x	x		x
<i>Musa acuminata</i> Colla		Musaceae	Herb	Edi, Med	x	x	x	x
<i>Musa itinans</i> Chessman.	Chuối dại	Musaceae	Herb	Edi, Med	x	x		
<i>Musa ornata</i> Roxb.	Chuối cảnh đỏ	Musaceae	Herb	Orn				x
<i>Musa paradisiaca</i> L.	Chuối.	Musaceae	Herb	Edi	x	x		
<i>Musa uranoscopos</i> Lour		Musaceae	Herb	Edi, Med			x	
<i>Myrica esculenta</i> Buch.-Ham. ex D. Don	Thanh mai	Myricaceae	Tree	Edi, Woo	x		x	
<i>Horsfieldia amygdalina</i> Warb	Sang máu hạnh nhân	Myristicaceae	Tree	Med, Woo	x	x	x	x

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<i>Knema globularia</i> Warb.	Máu chó lá nhỏ	Myristicaceae	Tree	Woo	x	x		x
<i>Knema lenta</i> Warb.	Máu chó thấu kính	Myristicaceae	Tree	Woo	x	x		
<i>Knema tonkinensis</i> (Warb.) W.J. de Wilde	Máu chó bắc bộ	Myristicaceae	Tree			x		
<i>Knema conferta</i> Warbg		Myristicaceae	Tree	Woo			x	
<i>Cleistocalyx operculatus</i> (Roxb.) Merr.& Perry		Myrtaceae	Tree	Med, Woo			x	
<i>Decaspermum gricilentum</i> Merr. & Perry.		Myrtaceae	Tree	Woo			x	
<i>Psidium guajava</i> L.		Myrtaceae	Tree	Edi, Orn, Med			x	
<i>Rhodomyrtus tomentosa</i> Hassk.	Hồng xim	Myrtaceae	Tree	Edi, Med, Edi	x	x	x	x
<i>Syzygium balsameum</i> Wall. ex Walp.	Trâm dâu	Myrtaceae	Tree	Woo	x			x
<i>Syzygium baviensis</i> (Gagnep.) Merr. et Perry		Myrtaceae	Tree	Woo			x	
<i>Syzygium boisianum</i> Merr. & Perry	Trâm bois	Myrtaceae	Tree	Woo	x	x		x
<i>Syzygium chanlos</i> (Gagnep.) Merr.& Perry		Myrtaceae	Tree	Woo			x	
<i>Syzygium cumini</i> Skeels	Trâm mốc	Myrtaceae	Tree	Woo, Edi	x	x	x	x
<i>Syzygium grandis</i> Walp.	Trâm to	Myrtaceae	Tree	Woo	x			x
<i>Syzygium hancei</i> Merr. & Perry	Trâm hance	Myrtaceae	Tree	Woo	x	x		
<i>Syzygium jambos</i> Alston	Bò đào	Myrtaceae	Tree	Edi, Woo	x	x		x
<i>Syzygium levinei</i> (Merr.) Merr. & Perry	Trâm núi	Myrtaceae	Tree	Woo	x	x		x
<i>Syzygium petelotii</i> Merr. & Perry	Trâm petelot	Myrtaceae	Tree	Woo	x			
<i>Syzygium polyanthum</i> Walp.	Sản thuyền	Myrtaceae	Tree	Woo	x	x		
<i>Syzygium sp.</i>		Myrtaceae	Tree	Woo			x	
<i>Syzygium tonkinensis</i> Merr. & Perry	Trâm bắc bộ	Myrtaceae	Tree	Woo				x

Scientific name	Vietnamese name	Family	Plant habit	Use	Cham Chu	Bac Me	Phia Oac	Nam Xuan Lac
<i>Syzygium wightianum</i> Wight 692et Arn.		Myrtaceae	Tree	Woo			x	
<i>Syzygium zeylanicum</i> DC.	Trâm vỏ đỏ	Myrtaceae	Tree	Woo				x
<i>Erythralium scandens</i> Blume	Bò khai	Oleaceae	Liana	Edi, Med	x	x	x	x
<i>Fraxinus chinensis</i> Roxb		Oleaceae	Liana	Woo			x	
<i>Jasminum adenophyllum</i> Wall.		Oleaceae	Liana	Med			x	
<i>Jasminum coarctatum</i> Roxb.	Lài bắc bộ	Oleaceae	Liana		x	x		x
<i>Jasminum longisepalum</i> Merr.	Lài cánh hoa dài	Oleaceae	Liana	Med	x	x		x
<i>Jasminum sambac</i> Ait.	Lài	Oleaceae	Liana	Med	x			
<i>Jasminum sp.</i>	Lài	Oleaceae	Liana			x		
<i>Ligustrum sinensis</i> Lour.	Râm xanh	Oleaceae	Tree	Orn	x	x	x	
<i>Linociera sp.</i>	Tráng	Oleaceae	Tree	Woo	x	x	x	x
<i>Myxopyrum nervosum</i> Blume	Nhuong lê gân	Oleaceae	Liana	Med	x	x		
<i>Myxopyrum smilacifolium</i> Blume	Nhuong lê kim cang	Oleaceae	Liana		x	x		
<i>Olea dentata</i> Wall. ex A.DC.	Oliu có răng	Oleaceae	Tree		x	x		
<i>Olea dioica</i> Roxb.	ô liu	Oleaceae	Tree	Woo			x	x
<i>Osmanthus pedunculatus</i> Gagnep		Oleaceae	Tree	Woo			x	
<i>Osmathus matsumuranus</i> Hayata	Mộc matsumara	Oleaceae	Tree	Woo	x	x		x
<i>Ludwigia hyssopifolia</i> (G. Don) Exell.		Onagraceae	Herb	Anv			x	
<i>Ludwigia adscendens</i> Hara	Rau dừa nước	Onagraceae	Herb	Med, Anv	x	x	x	x
<i>Ludwigia epilobioides</i> Maxim.	Rau mương hẹp	Onagraceae	Herb	Med	x	x		
<i>Ludwigia octovalvis</i> Raven.	Rau mương đứng	Onagraceae	Herb	Med, Anv	x	x		x
<i>Melientha suavis</i> Pierre	Rau sảng	Opiliaceae	Tree	Edi, Med	x	x	x	x
<i>Urobotrya latisquama</i> Hiepko	Lân vĩ vây rộng	Opiliaceae	Shrub		x	x		x
<i>Acanthephippium gouhahensis</i> (Guillaumin) Seidenf.	Lan Yên ngựa	Orchidaceae	Herb	Orn	x	x		

Scientific name	Vietnamese name	Family	Plant habit	Use	Cham Chu	Bac Me	Phia Oac	Nam Xuan Lac
<i>Aerides crassifolia</i> C.S.P.Parish ex Burb.	Lan dáng hương	Orchidaceae	Epiph.			x		
<i>Aerides falcatum</i> Lindl.		Orchidaceae	Epiph.	Orn		x	x	
<i>Aerides rosea</i> Lodd. ex Lindl. & Paxton	Đuôi cáo	Orchidaceae	Epiph.				x	
<i>Anaphora liparioides</i> Gagnep		Orchidaceae	Herb	Orn	x			
<i>Anoectochilus calcareus</i> Aver.	Kim tuyến đá vôi	Orchidaceae	Herb	Orn, Med	x	x	x	
<i>Anoectochilus lanceolatus</i> Lindl.	Giải thùi thon	Orchidaceae	Herb	Med				x
<i>Anoectochilus setaceus</i> Blume		Orchidaceae	Herb	Med, Orn		x	x	
<i>Anthogonium gracile</i> Wall. & Lindl.	Lan vi hài	Orchidaceae	Herb	Orn	x	x		
<i>Appendicula cornuta</i> Blume		Orchidaceae	Herb	Orn			x	
<i>Arachnis bilingnis</i> (Benth. ex Hook. f.) Schltr.		Orchidaceae	Herb	Orn			x	
<i>Arundina graminifolia</i> Hochr.	Lan trúc	Orchidaceae	Herb	Orn	x	x	x	x
<i>Bulbophyllum affine</i> Lindl.		Orchidaceae	Epiph.	Orn			x	
<i>Bulbophyllum sigaldiae</i> Guillaum	Cầu diệp sigaldi	Orchidaceae	Epiph.	Orn	x	x		
<i>Bulbophyllum simondii</i> Gagnep	Cầu diệp simond	Orchidaceae	Epiph.	Orn	x	x		
<i>Bulbophyllum spadiciiflorum</i> Tix.		Orchidaceae	Epiph.	Orn			x	
<i>Bulbophyllum stenobulbon</i> Parish & Reichb. F	Cầu diệp củ hẹp	Orchidaceae	Epiph.	Orn	x	x		
<i>Bulbophyllum tixieri</i> Seidenf.		Orchidaceae	Epiph.	Orn			x	
<i>Calanthe brachycahina</i> Gagnep.		Orchidaceae	Herb	Orn			x	
<i>Calanthe clavata</i> Lindl	Kiều lam đình	Orchidaceae	Herb	Orn	x	x		x
<i>Calanthe densiflora</i> Lindl	Kim tán	Orchidaceae	Herb	Orn	x	x	x	x
<i>Calanthe herbacea</i> Lindl.	Kiều lan cỏ	Orchidaceae	Herb	Orn	x	x		
<i>Calanthe sp.</i>	Bầu rượu	Orchidaceae	Herb			x		
<i>Calanthe triplicata</i> Ames	Lan đất trắng	Orchidaceae	Herb	Med, Orn	x	x		x

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<i>Cherirostylis spathulata</i> J.J. Smith	Thủ thư hình muông	Orchidaceae	Herb	Orn	x	x		
<i>Coelogyne fimbriata</i> Lindl.	Thanh đạm rìa	Orchidaceae	Epiph.			x		
<i>Coelogyne nitida</i> (Wall. ex D.Don) Lindl.		Orchidaceae	Herb	Orn, Med			x	
<i>Corymborkis veratrifolia</i> Blume	Địa lan lá dứa	Orchidaceae	Herb	Orn				x
<i>Cymbidium sinense</i> (Jacks. ex Andrews) Willd.		Orchidaceae	Herb	Orn			x	
<i>Dendrobium anosmum</i> Lindl.	Phi điệp tím	Orchidaceae	Epiph.			x		
<i>Dendrobium brymerianum</i> Rchb.f.	Hoàng thảo môi tua	Orchidaceae	Epiph.	Orn				x
<i>Dendrobium chlorostylum</i> Gagnep.	Ngọc vạn voi lục	Orchidaceae	Epiph.	Orn	x	x		
<i>Dendrobium chrysanthum</i> Wall. ex Lindl.	Hoàng thảo vàng	Orchidaceae	Epiph.			x		
<i>Dendrobium chryseum</i> Rolfe.	Ngọc vạn vàng	Orchidaceae	Epiph.	Med, Orn	x	x		x
<i>Dendrobium fimbriatum</i> Hook. f.	Kim điệp	Orchidaceae	Epiph.	Med, Orn	x	x		x
<i>Dendrobium lindleyi</i> Steud.	Vẩy rồng	Orchidaceae	Epiph.	Orn				x
<i>Dendrobium nobile</i> Lindl	đùi gà	Orchidaceae	Epiph.	Med, Orn		x		x
<i>Dendrobium thyrsiflorum</i> B.S.Williams	Kiều vàng	Orchidaceae	Epiph.			x		
<i>Didymoplexiopsis khiriwongensis</i> Seidenf.	Hoại lan	Orchidaceae	Herb	Orn	x	x		x
<i>Epipogium roseum</i> (D. Don) Lind.	Thượng lan	Orchidaceae	Epiph.	Med				x
<i>Eria coronaria</i> (Lindl.) Rchb.f.	Ni lan thơm	Orchidaceae	Epiph.	Orn		x	x	x
<i>Gastrochilus yunnanensis</i> Schltr.	Túi thơ vân nam	Orchidaceae	Epiph.	Orn	x	x		x
<i>Goodyera fumata</i> Thwaites	Hảo lan khói	Orchidaceae	Herb	Orn	x	x		x
<i>Goodyera hispida</i> Lindl.	kim tuyến lá dài	Orchidaceae	Herb	Orn		x		x
<i>Goodyera schlechtendaliana</i> Rchb. f.		Orchidaceae	Herb	Orn			x	
<i>Habenaria poilanei</i> Gagnep.	Hà biện poilan	Orchidaceae	Herb	Orn	x	x		x

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<i>Liparis conopea</i> Aver		Orchidaceae	Epiph.	Orn			x	
<i>Liparis cordifolia</i> Hook.f.	Nhãn điệp lá tim	Orchidaceae	Epiph.	Orn				x
<i>Liparis penduliflora</i> Szlach	Nhãn điệp hoa thông	Orchidaceae	Epiph.	Orn	x	x		x
<i>Liparis petiolata</i> Hunt & Summ	Nhãn điệp cuống	Orchidaceae	Herb	Orn	x	x		
<i>Liparis piriformis</i> Szlach	Nhãn điệp hình lê	Orchidaceae	Epiph.	Orn				x
<i>Liparis</i> sp.	Tai thảo	Orchidaceae	Epiph.			x		
<i>Ludisia discolor</i> (Ker Gawl.) A.Rich.	Lan gấm	Orchidaceae	Herb	Med				x
<i>Nervilia fordii</i> Schltr.	Thanh thiên quỳ	Orchidaceae	Herb	Orn, Med	x	x		x
<i>Oberonia emarginata</i> King & Pantl.	Móng rùa lõm	Orchidaceae	Epiph.	Orn				x
<i>Oberonia ensiformis</i> Lindl.	Móng rùa kiếm	Orchidaceae	Epiph.	Orn				x
<i>Paphiopedilum helenae</i> Aver	Hài hêlen	Orchidaceae	Herb			x		
<i>Paphiopedilum hirsutissimum</i> Stein	Hài lông	Orchidaceae	Herb	Orn	x	x		
<i>Paphiopedilum malipoense</i> S.C.Chen & Z.H.Tsi	Hài xanh	Orchidaceae	Herb	Orn	x	x		
<i>Phaius tonkinensis</i> (Aver.) Aver.	Hạc đỉnh bắc bộ	Orchidaceae	Herb	Orn				x
<i>Pholidota longipes</i> S.C.Chen & Z.H.Tsi	Tục đoạn	Orchidaceae	Epiph.			x		
<i>Porpax grandiflora</i> Seidenf.		Orchidaceae	Epiph.	Orn			x	
<i>Spiranthes sinensis</i> (Pers.) Ames		Orchidaceae	Herb	Orn			x	
<i>Vanda concolor</i> Blume	Lan quế lá nhỏ	Orchidaceae	Epiph.	Orn				x
<i>Vrydagzynea albida</i> Blume	Lan huệ trắng	Orchidaceae	Herb	Orn				x
<i>Zeuxine abbreviata</i> Hook.f.	Thơ sinh ngắn	Orchidaceae	Herb	Orn	x	x		
<i>Zeuxine abbreviata</i> Hook.f.	Thơ sinh ngắn	Orchidaceae	Epiph.	Orn				x
<i>Zeuxine nervosa</i> Benth. ex C.B.Clarke.	Thơ sinh gân	Orchidaceae	Epiph.	Orn				x
<i>Averrhoa carambola</i> L.	Khế	Oxalidaceae	Tree	Edi, Med	x	x		
<i>Oxalis corniculata</i> L.	Me đất bông	Oxalidaceae	Herb	Edi, Med	x	x	x	x

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<i>Oxalis corymbosa</i> DC.	Me đất nhỏ	Oxalidaceae	Herb	Med	x	x		x
<i>Microdesmis casaeriaefolia</i> Planch. ex Hook.	Chân	Pandaceae	Tree	Med	x	x	x	x
<i>Pandanus humilis</i> Lour.	Dứa lá nhỏ	Pandanaceae	Herb	Med	x	x		x
<i>Pandanus tonkinensis</i> Martelli		Pandanaceae	Shrub	Med	x	x	x	
<i>Adenia heterophylla</i> (Blume) Koord	Vòng kỷ cung	Passifloraceae	Liana	Med		x		x
<i>Passiflora foetida</i> L.	Lạc tiên	Passifloraceae	Liana	Edi, Med	x	x	x	x
<i>Adinandra annamensis</i> Gagnep.		Pentaphylacaceae	Tree	Woo			x	
<i>Adinandra megaphylla</i> Hu		Pentaphylacaceae	Tree	Woo			x	
<i>Eurya acuminata</i> DC.		Pentaphylacaceae	Tree	Woo			x	
<i>Eurya ciliata</i> Merr		Pentaphylacaceae	Tree	Woo			x	
<i>Eurya japonica</i> Thunb.		Pentaphylacaceae	Tree	Woo			x	
<i>Eurya laotica</i> Gagnep		Pentaphylacaceae	Tree	Woo			x	
<i>Taonabo japonica</i> (Thunb.) Szyszyl.		Pentaphylacaceae	Tree	Woo			x	
<i>Phryma lepidostachya</i> L.	Cỏ diệt duỗi	Phrymaceae	Herb					
<i>Peperomia leptostachya</i> Hook. & Arn.	Càng cua gié mảnh	Piperaceae	Herb	Edi, Med	x	x		x
<i>Peperomia pellucida</i> H.B.K.	Càng cua	Piperaceae	Herb	Edi, Med	x	x		x
<i>Piper albispicum</i> C. DC.	Tiêu đứng	Piperaceae	Herb	Med			x	x
<i>Piper betle</i> L.	Trầu không	Piperaceae	Liana	Med	x	x		x
<i>Piper bonii</i> C.DC.	Tiêu rừng	Piperaceae	Liana	Med	x	x	x	
<i>Piper gymnostachyum</i> DC		Piperaceae	Liana	Med			x	
<i>Piper lolot</i> C.DC.	Lá lốt	Piperaceae	Herb	Edi, Med	x	x		
<i>Piper longum</i> L.	Tiêu lốt	Piperaceae	Liana	Med	x	x		x
<i>Piper pendulispicum</i> C. DC.	Tiêu gié thông	Piperaceae	Liana	Med	x	x	x	x
<i>Zippelia begonifolia</i> Blume ex Schult. & schult.f.	Tiêu rận	Piperaceae	Herb	Med	x	x		x
<i>Pittosporum tetraspermum</i> Wight & Arn	Hắc châu 4 hạt	Pittosporaceae	Shrub		x	x	x	x

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<i>Plantago asiatica</i> L.	Mã đề á	Plantaginaceae	Herb	Med			x	x
<i>Plantago major</i> L.	Mã đề	Plantaginaceae	Herb	Med	x	x	x	x
<i>Acroceras munroanum</i> (Bal.) Henrard		Poaceae	Bambu.	Anv			x	
<i>Ampelocalamus patellaris</i> (Gamble) Stapleton		Poaceae	Bambu.	Edi, Fib			x	x
<i>Apluda mutica</i> L.		Poaceae	Bambu.	Anv				x
<i>Arundinaria rovellii</i> E. Camus	Sặt	Poaceae	Bambu.	Edi	x			
<i>Arundinaria rovellii</i> E. Camus	Sặt	Poaceae	Bambu.					
<i>Arundinella bengalensis</i> (Spreng) Druce		Poaceae	Bambu.	Edi			x	
<i>Arundinella setosa</i> Trin.		Poaceae	Bambu.	Edi			x	
<i>Chimonobambusa grandifolia</i> Hsueh & W.P.Zhang	Sặt gai	Poaceae	Bambu.	Fib, Edi				x
<i>Chrysopogon aciculatus</i> (Retz.) Trin		Poaceae	Bambu.	Anv, Med	x	x	x	x
<i>Cymbopogon goeringii</i> (Steud.) A. Camus		Poaceae	Shrub	Med			x	
<i>Cynodon arcuatus</i> J. & C. Presl	Chi cong	Poaceae	Herb	Anv				x
<i>Cynodon dactylon</i> Pers.	Cỏ chỉ	Poaceae	Herb	Med,Anv	x	x	x	x
<i>Cyrtococcum accrescens</i> Stapf	Cỏ dĩnh mọc	Poaceae	Herb	Anv	x	x		x
<i>Cyrtococcum oxyphyllum</i> (Hochst.ex Steud.) Stapf.		Poaceae	Herb	Anv			x	
<i>Cyrtococcum patens</i> A.Camus	Cỏ dĩnh bò	Poaceae	Herb	Anv				x
<i>Dendrocalamus fragelliferus</i>		Poaceae	Liana	Edi, Fib			x	
<i>Dendrocalamus giganteus</i> Munro		Poaceae	Liana	Edi, Fib			x	
<i>Dendrocalamus yunnanicus</i> Hsueh & D.Z.Li	Mai cây	Poaceae	Liana	Fib	x	x		x
<i>Digitaria abludens</i> Veldk.	Túc hình hạt	Poaceae	Herb	Anv	x	x		x
<i>Digitaria adscendens</i> (HBK) Hern		Poaceae	Herb	Anv			x	

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<i>Digitaria setigera</i> Roth ex Roem. et Schult.		Poaceae	Herb	Anv			x	
<i>Echinochloa colonum</i> (L.) Link.		Poaceae	Herb	Anv			x	
<i>Echinochloa crus-galli</i> Beauv.	Cỏ lồng vực nước	Poaceae	Herb	Anv	x	x		
<i>Echinochloa crus-pavonis</i> (Kunth) Schult.	Cỏ lồng vực	Poaceae	Herb	Anv	x	x		x
<i>Echinochloa polystachya</i> (Kunth) Hitchc.	Cỏ lồng móc	Poaceae	Herb	Anv				x
<i>Eleusine indica</i> Gaertn.	Mần trâu	Poaceae	Herb	Med, Anv	x	x	x	x
<i>Eragrostis diarrhena</i> Steud.	Tinh thảo song huỳnh	Poaceae	Herb	Anv	x	x		
<i>Eragrostis unioloides</i> Nees. & Steud.	Tinh thảo đỏ	Poaceae	Herb	Anv	x	x		x
<i>Erianthus arundinacues</i> (Retz.) Jeswiel.ex Heyne		Poaceae	Herb	Anv			x	
<i>Hemarthria comperssa</i> (Chen et al.) R.Br.		Poaceae	Herb	Anv			x	
<i>Imperata cylindrica</i> Beauv.	Cỏ tranh	Poaceae	Herb	Med, Anv	x	x	x	x
<i>Indosasa hispida</i> McClure	Vầu đắng	Poaceae	Bambu.	Fib, Edi	x	x	x	x
<i>Indosasa sp.</i>	Vầu	Poaceae	Bambu.			x		
<i>Indosasa triangulata</i> Hsuch et Yi		Poaceae	Bambu.	Edi, Fib			x	
<i>Ischaemum thomsoniaum</i> Stapf. Ex c.E.c. Fischer		Poaceae	Herb	Anv			x	
<i>Leptochloa panicea</i> (Retz.) Ohwi		Poaceae	Herb	Anv			x	
<i>Lophatherum gracile</i> Brongn. in Duperr.		Poaceae	Herb	Anv				
<i>Maclurochloa vietnamensis</i> sp. nov.	Giang	Poaceae	Liana	Fib, Edi	x	x		x
<i>Melocalamus compactiflorus</i> (Kurz) Benth.		Poaceae	Liana	Edi, Fib			x	

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<i>Mircostegium vagans</i> (Nees. Merr.		Poaceae	Herb	Anv			x	
<i>Miscanthus floridulus</i> (Labill.) Warb. ex Schun & Laut.		Poaceae	Herb	Anv			x	
<i>Miscanthus sinensis</i> Anders.	Lô trung quốc	Poaceae	Bambu.	Med, Fib	x	x		x
<i>Neohouzeaua dullooa</i> (Gamble) A. Camus	Nứa	Poaceae	Bambu.	Fib, Edi	x	x		
<i>Oplismenus compositus</i> Beauv.	Tu thảo đều	Poaceae	Herb	Anv				x
<i>Panicum amoenum</i> Bal.		Poaceae	Herb	Anv			x	
<i>Panicum repens</i> L.	cỏ gừng	Poaceae	Herb	Anv	x	x		
<i>Paspalum conjugatum</i> Berg.	cỏ đấng đôi	Poaceae	Herb	Anv	x	x	x	
<i>Paspalum paspaloides</i> Scribn.	San nước	Poaceae	Herb	Anv	x	x		
<i>Paspalum scrobiculatum</i> L.	cỏ gà nước	Poaceae	Herb	Anv	x	x		
<i>Paspalum vaginatum</i> Sw.	San sát	Poaceae	Herb	Anv	x	x		
<i>Phragmites karka</i> (Retz.) Trin. ex Steud	Sậy	Poaceae	Herb	Anv	x	x	x	x
<i>Phragmites maximus</i> Chiov.	Sậy núi	Poaceae	Herb	Anv	x	x		
<i>Phragmites vallatoria</i> (L.) Veldkamp		Poaceae	Herb	Anv			x	
<i>Phyllostachys bambusoides</i> Siebold & Zucc.	Tre điệp vĩ	Poaceae	Bambu.	Fib, Edi	x	x		
<i>Phyllostachys pubescens</i> Mazel ex H. de Lehaie		Poaceae	Bambu.	Edi, Fib			x	
<i>Saccharum arundinaceum</i> Rotz		Poaceae	Herb	Anv			x	
<i>Saccharum spontaneum</i> L.	Lách	Poaceae	Herb	Anv	x	x	x	x
<i>Sasa japonica</i> (Sieb et Zucac) Makino		Poaceae	Herb	Fib			x	
<i>Schizostachyum dullooa</i> (Gamble) R.B.Majumdar		Poaceae	Herb	Edi, Fib			x	
<i>Schizostachyum funghomi</i> Mc Clure		Poaceae	Herb	Edi, Fib			x	

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<i>Schysostachyum pseudolima</i> McClure	Nửa lá nhỏ	Poaceae	Shrub	Fib, Edi	x	x		x
<i>Setaria parviflora</i> Kerguelen	Đuôi chồn	Poaceae	Herb	Anv	x	x		
<i>Sphaerocaryum pulchellum</i> A.Camus	Cầu bản balansà	Poaceae	Tree	Anv				x
<i>Thysanolaena maxima</i> Kuntze	Chít	Poaceae	Herb		x	x	x	x
<i>Urochloa mutica</i> T.Q.Nguyen	Cỏ lông tây	Poaceae	Herb		x	x		x
<i>Vietnamosasa pusilla</i> (A. Chev. et A. Camus) Nguyen		Poaceae	Bambu.	Edi, Fib			x	
<i>Polygala karensium</i> Kurz.		Polygalaceae	Shrub	Med			x	
<i>Polygala sp.1</i>	Kích nhũ gỗ	Polygalaceae	Shrub			x		
<i>Polygala sp.2</i>		Polygalaceae	Shrub	Med			x	
<i>Polygala wattersii</i> Hance	Kích nhũ watter	Polygalaceae	Shrub	Med	x	x		
<i>Xanthophyllum eberhardii</i> Gagnep		Polygalaceae	Shrub	Woo			x	
<i>Xanthophyllum glaucum</i> Wall.		Polygalaceae	Shrub	Woo			x	
<i>Xanthophyllum vitellinum</i> Ness	Săng ót da ghé	Polygalaceae	Tree	Woo	x	x		x
<i>Antenoron filiforme</i> (Thunb.) Rober. & Vaut.	Nghê hình sợi	Polygonaceae	Herb	Med	x	x	x	x
<i>Chylocalyx perpholiatum</i> (L.) Hausskn ex Miq		Polygonaceae	Herb	Med			x	
<i>Persicaria tinctorium</i> (Lubbe et al.) Spach		Polygonaceae	Herb	Med			x	
<i>Polygonum barbatum</i> L.	Nghê râu	Polygonaceae	Herb	Med	x	x		x
<i>Polygonum chinense</i> L.	Thồm lôm	Polygonaceae	Herb	Edi, Med	x	x	x	x
<i>Polygonum glabrum</i> Willd.	Nghê không lông	Polygonaceae	Herb	Med	x	x		x
<i>Polygonum hydropiper</i> L.	Rấm nước	Polygonaceae	Herb	Med	x	x		
<i>Polygonum odoratum</i> L		Polygonaceae	Shrub	Edi, Med	x	x	x	
<i>Polygonum pubescens</i> Blume	Rau rấm dại	Polygonaceae	Herb	Med	x	x		x
<i>Polygonum tomentosa</i> Willd.		Polygonaceae	Herb	Med			x	

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<i>Rumex dentatus</i> L		Polygonaceae	Herb	Med			x	
<i>Rumex trisetifer</i> Stokes	Chút chít	Polygonaceae	Herb	Med	x	x		x
<i>Monochoria cyanea</i> F.Muell.	Rau mác lam	Pontederiaceae	Aquatic	Med	x	x		x
<i>Monochoria hastata</i> Solm.	Rau mác thon	Pontederiaceae	Herb	Edi, Med,Anv	x	x		
<i>Portulaca oleraceae</i> L.	Sam	Portulacaceae	Herb	Edi, Med	x	x	x	
<i>Talinum paniculatum</i> Gaertn.	Sâm đất	Portulacaceae	Herb	Edi, Med	x	x		
<i>Ardisia arborescens</i> Wall. ex A.DC.	Cơm nguội mọc	Primulaceae	Tree		x	x	x	
<i>Ardisia crenata</i> Sims	Trọng đũa	Primulaceae	Tree	Orn	x	x	x	x
<i>Ardisia gigantifolia</i> Stapf	Cơm nguội lá không lồ	Primulaceae	Tree	Med	x	x		x
<i>Ardisia gracilifora</i> Pit.		Primulaceae	Tree				x	
<i>Ardisia replicata</i> E. Walker	Cơm nguội xếp	Primulaceae	Shrub		x	x		
<i>Ardisia silvestris</i> Pit.	Khôi tía	Primulaceae	Shrub	Med	x	x		x
<i>Ardisia sp.</i>	Trọng đũa	Primulaceae	Shrub		x			
<i>Ardisia villosula</i> Pitard		Primulaceae	Shrub	Med			x	
<i>Ardisia yunnaensis</i> Mez		Primulaceae	Shrub				x	
<i>Embelia bonii</i> Gagnep.	Rè bon	Primulaceae	Liana	Med	x	x		
<i>Embelia parviflora</i> Wall. ex A. DC.	Rè đẹt	Primulaceae	Liana	Med	x	x	x	x
<i>Embelia ribes</i> Burm.f.	Rè ngát	Primulaceae	Liana	Med	x	x	x	
<i>Embelia robusta</i> Roxb.	Rè sét	Primulaceae	Liana		x	x		
<i>Embelia scandens</i> (Lour.) Mez		Primulaceae	Liana	Edi			x	
<i>Embelia vestita</i> Roxb.	Chua ngút lá thuôn	Primulaceae	Liana	Med	x	x		x
<i>Lysimachia insignis</i> Hemsl	Chân châu 3 lá	Primulaceae	Herb	Med	x	x		
<i>Lysimachia petelotii</i> Merr	Chân châu petelot	Primulaceae	Herb	Med	x	x	x	x
<i>Maesa callophylla</i> Pitard	Đồng lá hẹp	Primulaceae	Shrub	Med	x	x		
<i>Maesa indica</i> A.DC.	Đồng răng cưa	Primulaceae	Shrub	Med	x	x	x	x
<i>Maesa membranacea</i> A.DC.		Primulaceae	Shrub	Med			x	

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<i>Maesa perlarius</i> (Lour.) Merr.	Đơn nem	Primulaceae	Shrub	Med	x	x		x
<i>Maesa sinensis</i> A.DC		Primulaceae	Shrub	Med			x	
<i>Maesa subdentata</i> A.DC		Primulaceae	Shrub	Med			x	
<i>Myrsine affinis</i> A. DC	Mặt cắt	Primulaceae	Tree	Woo	x	x		
<i>Myrsine capitellata</i> Wall		Primulaceae	Tree	Woo			x	
<i>Primula henryi</i> (Hemsl.) Pax		Primulaceae	Herb	Orn			x	
<i>Primula petelotii</i> W. W. Smith		Primulaceae	Herb	Orn			x	
<i>Rapanea yunnanensis</i> Mez		Primulaceae	Tree	Woo			x	
<i>Helicia cauliflora</i> Merr.	Quần hoa ở thân	Proteaceae	Tree	Woo	x	x		
<i>Helicia cochinchinensis</i> Lour.		Proteaceae	Tree	Woo			x	
<i>Helicia excelsa</i> Blume	Mạ sưa cao	Proteaceae	Tree	Woo	x			
<i>Helicia excelsa</i> Blume	Mạ sưa cao	Proteaceae	Tree	Woo	x	x	x	
<i>Helicia formosana</i> Hemsl.		Proteaceae	Tree	Woo			x	
<i>Helicia grandifolia</i> H. Lec	Mạ sưa lá to	Proteaceae	Tree	Woo	x	x	x	x
<i>Heliciopsis lobata</i> Sleumer	Mạ sưa phân thùy	Proteaceae	Tree	Edi, Med	x	x	x	x
<i>Clematis armandii</i> Franch		Ranunculaceae	Liana	Med			x	
<i>Clematis buchaniana</i> DC.	Ông lão buchanan	Ranunculaceae	Liana	Med	x	x	x	x
<i>Clematis granulata</i> Ohwi.	Ông lão	Ranunculaceae	Liana	Med	x	x		x
<i>Ranunculus pennsylvanicus</i> L.f.	Mao cần vĩ	Ranunculaceae	Herb	Med	x	x		x
<i>Alphitonia philippinensis</i> Braid		Rhamnaceae	Tree	Woo			x	
<i>Berchemia annamensis</i> Pitard		Rhamnaceae	Shrub	Med			x	
<i>Berchemia giraldiana</i> Schneid.		Rhamnaceae	Shrub				x	
<i>Gouania leptostachya</i> DC.	Dây gỗ an	Rhamnaceae	Liana	Med	x	x		
<i>Gouania javanica</i> Miq.	Dây đòn gánh	Rhamnaceae	Liana	Med	x		x	x
<i>Paliurus tonkinensis</i> Pitard	Táo ta bắc bộ	Rhamnaceae	Tree		x	x		
<i>Rhamnus crelatus</i> Sie. & Zucc. var. <i>cambodiana</i> Tardieu	Bút mèo	Rhamnaceae	Tree	Med				x

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<i>Rhamnus nepalensis</i> Laws.		Rhamnaceae	Shrub				x	
<i>Ventilago leiocarpa</i> Benth.	Đồng trái láng	Rhamnaceae	Liana	Med	x	x		x
<i>Ziziphus oenoplia</i> Mill.	Táo ta	Rhamnaceae	Shrub	Edi, Med	x	x	x	x
<i>Carallia brachiata</i> Merr.	Trúc tiết	Rhizophoraceae	Tree	Woo	x	x		x
<i>Carallia lanceifolia</i> Roxb.		Rhizophoraceae	Tree	Woo			x	
<i>Rhoiptelea chiliantha</i> Diels & Hand.-Mazz.		Rhoipteleaceae	Tree	Woo			x	
<i>Agrimonia pilosa</i> Ledeb.	Tiên hạc thảo	Rosaceae	Herb	Med	x	x	x	x
<i>Duchesnea indica</i> Focke	Dâu đất	Rosaceae	Herb	Edi	x	x	x	x
<i>Eriobotrya bengalensis</i> (Roxb.) Hook. f	Tỳ bà nam á	Rosaceae	Tree	Woo	x	x	x	
<i>Eriobotrya deflexa</i> Nakai	Sơn tra lá lớn	Rosaceae	Tree	Woo	x	x		x
<i>Eriobotrya japonica</i> Lindl.	Sơn tra nhật bản	Rosaceae	Tree	Woo, Edi	x	x		
<i>Photinia beauverdiana</i> C.K. Schneid.		Rosaceae	Tree	Woo			x	
<i>Photinia benthamiana</i> Hance		Rosaceae	Tree	Woo			x	
<i>Photinia prunifolia</i> Lindl.	Dự lá prun	Rosaceae	Tree		x	x	x	
<i>Potentilla kleiniana</i> Wight & Arn.		Rosaceae	Herb				x	
<i>Prunus arborea</i> Kalkm.	Xoan đào	Rosaceae	Tree	Woo				x
<i>Prunus arborea</i> var. <i>montana</i> Kalkman	Xoan đào tía	Rosaceae	Tree	Woo	x	x	x	x
<i>Prunus calicina</i> Lindl. var. <i>salicida</i> Prun.	Mận	Rosaceae	Tree	Med,Orn,Edi				x
<i>Prunus cerasoides</i> D.Don		Rosaceae	Tree	Orn, Woo			x	
<i>Prunus fordiana</i> Dunn		Rosaceae	Tree	Woo			x	
<i>Prunus persica</i> Batsch	Đào	Rosaceae	Tree	Med,Orn,Edi			x	
<i>Prunus salicina</i> Lindl.	Sầu nước	Rosaceae	Tree	Woo	x	x	x	
<i>Prunus zippeliana</i> Miq.		Rosaceae	Tree	Woo			x	
<i>Pyrus pashia</i> Buch.-Ham. ex D. Don		Rosaceae	Shrub	Edi			x	
<i>Rhaphiolepis indica</i> (L.) Lindl.		Rosaceae	Tree	Woo			x	

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<i>Rosa laevigata</i> Michx.	Kim anh	Rosaceae	Shrub	Med	x		x	
<i>Rubus alceifolius</i> Poir.	Mâm xôi	Rosaceae	Shrub	Edi, Med	x	x	x	x
<i>Rubus asper</i> Wall. ex Don		Rosaceae	Shrub	Edi			x	
<i>Rubus assamensis</i> Focke		Rosaceae	Shrub	Edi			x	
<i>Rubus cochinchinensis</i> Tratt.	Ngây hương	Rosaceae	Shrub	Edi, Med	x	x	x	
<i>Rubus ellipticus</i> Sm.		Rosaceae	Shrub	Edi			x	
<i>Rubus feddei</i> H.Lev. & Van.		Rosaceae	Shrub	Edi			x	
<i>Rubus lecomtei</i> Card		Rosaceae	Shrub	Edi			x	
<i>Rubus leucanthus</i> Hance	Ngây trắng	Rosaceae	Shrub	Edi, Med	x	x	x	x
<i>Rubus ligulatifolius</i> T.H.Nguyễn & Yakovlev	Đùm đùm hương	Rosaceae	Shrub	Edi, Med	x	x		x
<i>Rubus multibractaeus</i> LevI. & Vaniot.	Re sum	Rosaceae	Shrub	Edi, Med	x	x		
<i>Rubus niveus</i> Thunb.		Rosaceae	Shrub	Edi			x	
<i>Rubus rosaefolius</i> Sm.		Rosaceae	Shrub	Edi			x	
<i>Rubus roseafolius</i> Smith var. <i>asper</i> Kuntze	Dum nhọn	Rosaceae	Shrub	Edi, Med	x	x		x
<i>Rubus triphyllus</i> Thunb.		Rosaceae	Shrub	Edi			x	
<i>Sorbus corymbifera</i> (Miq.) T.H.Nguyễn & Yakovlev		Rosaceae	Tree	Ep			x	
<i>Sorbus epidendron</i> Hand.-Mazz.		Rosaceae	Tree	Woo			x	
<i>Adina pilulifera</i> (Lamk.) Franch. ex Drake		Rubiaceae	Tree	Woo			x	
<i>Aidia cochinchinensis</i> Lour.	Găng nam bộ	Rubiaceae	Tree		x	x		x
<i>Aidia oxydonta</i> Yamazaki	Găng răng nhọn	Rubiaceae	Tree		x	x	x	x
<i>Anthocephalus indicus</i> A.Rich		Rubiaceae	Tree	Woo			x	
<i>Canthium parvifolium</i> Roxb		Rubiaceae	Tree	Woo			x	
<i>Canthium dicoccum</i> (Gaertn.) Teysm. & Binn.		Rubiaceae	Tree	Woo			x	

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<i>Canthium glabrum</i> Blume	Xương cá	Rubiaceae	Tree	Woo	x	x		
<i>Canthium horridum</i> Blume	Găng gai	Rubiaceae	Tree	Med	x			
<i>Dentella repens</i> J.R. & G.Forst. & Forst.	Ren	Rubiaceae	Shrub		x	x		
<i>Duperrea pavettaefolia</i> Pitard	Trang dọt sành	Rubiaceae	Shrub		x	x		
<i>Gardenia stenophylla</i> Merr.	Dành dành lá hẹp	Rubiaceae	Shrub	Med	x			
<i>Geophila repens</i> Johnston	Địa hào bò	Rubiaceae	Herb	Med, Anv	x	x		x
<i>Haldina cordifolia</i> Ridsdale	Gáo tròn	Rubiaceae	Tree	Woo	x	x		
<i>Hedyotis ampliflora</i> Hance		Rubiaceae	Herb	Med			x	
<i>Hedyotis biflora</i> Lam.	An điền hai hoa	Rubiaceae	Herb	Med	x	x	x	x
<i>Hedyotis capitellata</i> Wall. ex G.Don		Rubiaceae	Herb	Med			x	
<i>Hedyotis corymbosa</i> Lam.	Cóc mán	Rubiaceae	Herb	Med	x	x	x	x
<i>Hedyotis crassifolia</i> Blume	An điền lá dày	Rubiaceae	Herb	Med	x	x		x
<i>Hedyotis diffusa</i> Willd.	An điền lan	Rubiaceae	Herb	Med				x
<i>Hedyotis multiglomerulata</i> (Pit.) Ho		Rubiaceae	Herb	Med			x	
<i>Hedyotis petelotii</i> Merr.	An điền petelot	Rubiaceae	Herb	Med	x	x		
<i>Hedyotis pilulifera</i> Pitard.		Rubiaceae	Herb	Med			x	
<i>Hedyotis scandens</i> Roxb.	An điền leo	Rubiaceae	Liana	Med	x	x	x	
<i>Hedyotis trinervia</i> Roem. & Schult.	An điền ba gân	Rubiaceae	Herb	Med	x	x		x
<i>Hymenodictyon orixense</i> Mabb.	Tai ghé	Rubiaceae	Tree	Med, Woo	x	x		x
<i>Hymenodictyon excelsum</i> Wall.		Rubiaceae	Tree	Med, Woo			x	
<i>Ixora coccinea</i> Linn.		Rubiaceae	Shrub	Orn, Med			x	
<i>Ixora chinensis</i> Nakai	Trang tàu	Rubiaceae	Shrub	Orn	x	x		x
<i>Ixora henryi</i> Levl.	Trang henry	Rubiaceae	Shrub	Orn	x	x		x
<i>Ixora umbellata</i> Valet. ex Koord. & Valet.	Trang lá hoa	Rubiaceae	Shrub	Orn	x	x		
<i>Lasianthus chinensis</i> Benth.	Xú hương trung quốc	Rubiaceae	Tree	Med	x	x		x

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<i>Lasianthus eberhardii</i> Pitard	Xú hương	Rubiaceae	Tree	Med	x	x	x	x
<i>Leptomischus primuloides</i> Drake	Bạc cánh	Rubiaceae	Shrub	Med	x	x		x
<i>Morinda umbellata</i> L.		Rubiaceae	Shrub	Med			x	
<i>Mussaenda cambodiana</i> Pierre ex Pitard	Bướm bạc cam bột	Rubiaceae	Liana	Med	x	x	x	x
<i>Mussaenda densiflora</i> Li	Bướm bạc hoa dày	Rubiaceae	Liana	Med	x	x		
<i>Mussaenda glabra</i> Vahl	Bướm bạc nhẵn	Rubiaceae	Shrub	Med	x	x		x
<i>Mussaenda pilosissima</i> Valet	Bướm bạc lông	Rubiaceae	Liana	Med	x	x	x	x
<i>Mussaenda pubescens</i> Ait.f		Rubiaceae	Shrub	Med			x	
<i>Mycetia balansae</i> Drake	Khuẩn quả balansa	Rubiaceae	Herb	Med	x	x		x
<i>Mycetia longifolia</i> K.Schum.	Khuẩn quả lá dài	Rubiaceae	Herb	Med	x	x		x
<i>Myrioneuron effusum</i> Merr.	Vạn kinh tràn	Rubiaceae	Shrub	Med	x	x		x
<i>Myrioneuron tonkinense</i> Pitard	Vạn kinh bắc bộ	Rubiaceae	Shrub	Med	x	x		x
<i>Nauclea orientalis</i> (L.) L.		Rubiaceae	Tree	Woo			x	
<i>Neolamarckia cadamba</i> (Roxb.) Bosser	Gáo trắng	Rubiaceae	Tree	Woo	x	x		
<i>Neonauclea purpurea</i> Merr.	Vàng kiềng	Rubiaceae	Tree	Woo, Orn	x	x	x	x
<i>Neonauclea sessilifolia</i> Merr.	Gáo vàng	Rubiaceae	Tree	Woo, Orn				x
<i>Oldenlandia pendunculata</i> Pitard		Rubiaceae	Shrub	Med			x	
<i>Ophiorrhiza baviensis</i> Drake	Xà căn ba vì	Rubiaceae	Shrub	Med	x	x	x	x
<i>Ophiorrhiza japonica</i> Blume	Xà căn nhật	Rubiaceae	Shrub	Med	x	x		
<i>Paederia foetida</i> L.	Mơ tròn	Rubiaceae	Liana	Edi, Med	x	x	x	x
<i>Paederia scandens</i> Merr.	Mơ leo	Rubiaceae	Liana	Edi, Med	x	x		x
<i>Pavetta indica</i> L.		Rubiaceae	Tree	Woo			x	
<i>Psychotria baviensis</i> Pitard	Lầu ba vì	Rubiaceae	Shrub		x	x		x
<i>Psychotria fleuryi</i> Pitard	Lầu	Rubiaceae	Shrub		x			x
<i>Psychotria fleuryi</i> Pitard	Lầu	Rubiaceae	Shrub	Med				

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<i>Psychotria montana</i> Blume	Lầu núi	Rubiaceae	Shrub			x	x	
<i>Psychotria reevesii</i> Wall		Rubiaceae	Shrub				x	
<i>Psychotria rubra</i> Poitr	Lầu đỏ	Rubiaceae	Shrub		x			x
<i>Psychotria serpens</i> L.	Lầu bò	Rubiaceae	Shrub		x	x		
<i>Psychotria siamica</i> Hutch.	Lầu xiêm	Rubiaceae	Shrub		x	x		x
<i>Psychotria silvestris</i> Pitard	Lầu rừng	Rubiaceae	Shrub		x	x		
<i>Randia acuminatissima</i> Merr.		Rubiaceae	Tree				x	
<i>Randia spinosa</i> Poir		Rubiaceae	Tree	Woo, Med	x	x	x	x
<i>Rothmannia eucodon</i> (K. Schum.) Bremek	Găng cao	Rubiaceae	Tree	Orn, Woo	x	x		x
<i>Rubia cordifolia</i> L.	Ruột gà núi	Rubiaceae	Liana	Med	x	x		x
<i>Tarenna attenuata</i> Hutch.	Trền thon	Rubiaceae	Shrub		x	x		x
<i>Uncaria homomalla</i> Miq.	Câu đặng bắc	Rubiaceae	Shrub	Med	x	x		x
<i>Uncaria macrophylla</i> Wall. ex Roxb.		Rubiaceae	Shrub	Med			x	
<i>Uncaria scandens</i> (Smith) Hutch.	Câu đặng	Rubiaceae	Liana	Med	x	x		x
<i>Urophyllum longifolium</i> var. <i>annamense</i> Pierre & Pitard	Vĩ diệp trung bộ	Rubiaceae	Shrub		x	x		
<i>Wendlandia glabrata</i> DC.	Gạc nai	Rubiaceae	Tree	Woo			x	x
<i>Wendlandia paniculata</i> DC.	Hoắc quang	Rubiaceae	Tree		x	x	x	x
<i>Xanthophytum polyanthum</i> Pitard	Hoàng cành nhiều hoa	Rubiaceae	Tree	Med	x			
<i>Acronychia pedunculata</i> Miq.		Rutaceae	Tree	Edi, Med			x	
<i>Clausena dunniana</i> H.Lév.	Hồng bì rừng	Rutaceae	Tree	Edi, Med	x	x		x
<i>Clausena excavata</i> Burm.f.	Hồng bì dai	Rutaceae	Tree	Edi, Med	x	x	x	x
<i>Clausena indica</i> Oliv	Mắc mật	Rutaceae	Tree	Edi, Med	x	x		x
<i>Euodia bodinieri</i> Dode	Thôi chanh trắng	Rutaceae	Tree	Woo			x	x
<i>Euodia lepta</i> Merr	Ba chạc	Rutaceae	Tree	Med	x	x	x	x
<i>Euodia meliaefolia</i> Benth		Rutaceae	Tree	Med			x	

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<i>Glycosmis cymosa</i> Narayan ex Tanaka.	Cơm rượu bắc bộ	Rutaceae	Tree	Woo	x	x		x
<i>Glycosmis stenocarpa</i> Tanaka	Cơm rượu trái hẹp	Rutaceae	Shrub	Med	x	x		x
<i>Luvunga scanden</i> Ham		Rutaceae	Shrub	Med			x	
<i>Micromelum falcatum</i> (Lour.) Tanaka		Rutaceae	Shrub	Med			x	
<i>Micromelum hirsutum</i> Oliv.	Mắt trâu	Rutaceae	Tree	Med	x	x		x
<i>Micromelum integerrimum</i> Wight & Arn. ex M. Roem.	Mắt trâu bìa nguyên	Rutaceae	Shrub	Med	x	x		
<i>Micromelum minutum</i> Clausena		Rutaceae	Shrub	Med			x	
<i>Murraya glabra</i> (Guillaum.) Guillaum	Nguyệt quế nhẵn	Rutaceae	Shrub			x		
<i>Murraya paniculata</i> Jack.	Nguyệt quế	Rutaceae	Tree	Med, Orn	x	x		x
<i>Skimmia arborescens</i> A. Anders. ex Bamble		Rutaceae	Tree	Med			x	
<i>Tetradium glabrifolium</i> (Champ. ex Benth.) T.G. Hartley	Thôi chanh trắng	Rutaceae	Tree	Woo	x	x		
<i>Tetradium trichotomum</i> Lour.	Dầu dậu chẻ ba	Rutaceae	Tree	Med	x	x		
<i>Zanthoxylum rhesoides</i> Crake		Rutaceae	Tree	Woo, Edi			x	
<i>Zanthoxylum avicenniae</i> (Lam) DC		Rutaceae	Tree	Edi, Med	x	x	x	x
<i>Zanthoxylum evodiaefolium</i> Guillaum	Đắng cay ba lá	Rutaceae	Tree	Med	x	x		
<i>Zanthoxylum nitidum</i> DC.	Hoàng liệt	Rutaceae	Tree	Edi, Med	x	x		x
<i>Meliosma arnottiana</i> (Wight) Walp.		Sabiaceae	Tree	Woo			x	
<i>Meliosma fordii</i> Hemsl.	Mật sạ ford	Sabiaceae	Tree	Woo	x	x		x
<i>Meliosma henryi</i> Diels.	Mật sạ henry	Sabiaceae	Tree	Woo	x	x	x	x
<i>Meliosma simplicifolia</i> Walp.	Mật sạ lá đơn	Sabiaceae	Tree	Woo	x	x	x	x
<i>Casearia graveolens</i> Dalzell	Nuốt hôi	Salicaceae	Tree		x	x		x

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<i>Flacourtia indica</i> (Burm. f.) Merr	Mùng quân	Salicaceae	Tree	Edi	x	x		
<i>Flacourtia rukam</i> Zoll. & Moritzi.	Hồng quân	Salicaceae	Tree	Edi	x	x		x
<i>Homalium ceylanicum</i> (Gardn.) Benth.	Chà ran tích lan	Salicaceae	Tree	Woo	x	x		
<i>Homalium myriandrum</i> Merr.	Chà ran vạn hoa	Salicaceae	Tree	Woo	x	x		x
<i>Hydnocarpus ilicifolia</i> King	Chùm bao ô rô	Salicaceae	Tree	Woo, Med	x	x		x
<i>Hydnocarpus kurzii</i> Warb.	Chùm bao	Salicaceae	Tree	Woo, Med	x	x		x
<i>Itoa orientalis</i> Hemsl.	Cuòm đỏ	Salicaceae	Tree	Woo	x	x		x
<i>Xylosma longifolium</i> Clos.	Mộc hương lá dài	Salicaceae	Tree	Woo	x	x	x	x
<i>Osyris arborea</i> Wall		Santalaceae	Shrub	Med			x	
<i>Scleropyrum wallichianum</i> (Wight & Arn.) Arn.		Santalaceae	Shrub				x	
<i>Allophyllus brachystachys</i> Radlk.		Sapindaceae	Tree				x	
<i>Allophyllus caudatus</i> Radlk.	Ngoại mộc có đuôi	Sapindaceae	Shrub		x	x		x
<i>Amesiodendron chinense</i> Hu	Trường mật	Sapindaceae	Tree	Woo				x
<i>Amesiodendron chinensis</i> (Merr.)Hu		Sapindaceae	Tree	Woo			x	
<i>Cardiospermum halicacabum</i> L.	Tầm phồng	Sapindaceae	Liana	Med	x	x		x
<i>Delavaya toxocarpa</i> Frank.	Dầu chòng	Sapindaceae	Tree	Med, Woo, Bio				x
<i>Dimocarpus fumatus</i> Leenh.	Nhãn rừng	Sapindaceae	Tree	Woo	x	x		
<i>Dinocarpus longana</i> (Lour.) Steud		Sapindaceae	Tree	Edi			x	
<i>Lepisanthes senegalensis</i> Leenh.	Lân hùng senegai	Sapindaceae	Tree	Med				x
<i>Litchi chinensis</i> Sonn.	Vải	Sapindaceae	Tree	Edi	x	x		
<i>Mischocarpus pentapetalus</i> Radlk.	Nây đỏ	Sapindaceae	Tree	Edi	x	x		
<i>Mischocarpus sundaicus</i> Blume	Nây sun đa	Sapindaceae	Tree	Woo, Edi				x
<i>Nephelium cuspidatum</i> Blume var. <i>bassacense</i> Leenh	Vải rừng	Sapindaceae	Tree	Woo, Edi	x	x	x	x

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<i>Pometia pinnata</i> forst. &Forst.f.	Sâng	Sapindaceae	Tree	Woo	x	x	x	x
<i>Sapindus saponaria</i> L.	Bồ hòn	Sapindaceae	Tree	Med,Bio			x	x
<i>Xerospermum noronhianum</i> (Blume) Blume	Trường	Sapindaceae	Tree	Woo, Edi	x	x		
<i>Eberhardtia tonkinensis</i> Lecomte	Công sữa	Sapotaceae	Tree	Woo,Bio	x	x	x	x
<i>Sarcosperma kachinense</i> Exell	Nhục tử cachin	Sapotaceae	Tree	Woo	x	x		
<i>Sinosideroxylon bonii</i> Aubr	Sén đất bon	Sapotaceae	Tree	Woo	x	x	x	
<i>Sinosideroxylon racemosum</i> (Pierre & Dubard) Aubr	Sén đất đuôi	Sapotaceae	Tree	Woo	x	x		
<i>Gymnotheca chinensis</i> Decne.	Lõa giáp	Saururaceae	Herb	Med	x	x		x
<i>Houttuynia cordata</i> Thunb.		Saururaceae	Shrub	Edi, Med			x	
<i>Saururus chinensis</i> (Lour.) Baill.	Hàm ếch	Saururaceae	Tree	Med	x	x	x	x
<i>Kadsura coccinea</i> (Lem.) A.C. Smith	Na rừng	Schisandraceae	Liana	Med	x	x		x
<i>Schisandra plena</i> A. C. Smith	Ngũ vị tử	Schisandraceae	Liana	Med	x	x		x
<i>Schisandra verrucosa</i> Gagnep		Schisandraceae	Liana	Med			x	
<i>Adenosma indica</i> Merr.	Tuyền hương ần	Scrophulariaceae	Herb	Med, Anv	x	x		
<i>Bacopa floribunda</i> Wettst.	Rau đắng bông	Scrophulariaceae	Herb	Med	x	x		
<i>Buddleja asiatica</i> Lour.	Búp lệ á	Scrophulariaceae	Shrub	Med	x	x		
<i>Limnophila aromatica</i> (Lamk.) Merr.		Scrophulariaceae	Herb	Edi			x	
<i>Limnophylla heterophylla</i> Benth.	Ngò nước	Scrophulariaceae	Herb	Edi	x	x		
<i>Limnophylla repens</i> Benth.	Om bò	Scrophulariaceae	Herb	Med	x	x		x
<i>Lindernia crustacea</i> F.Muell.	Lữ đằng cần	Scrophulariaceae	Herb	Med	x	x		
<i>Lindernia micrantha</i> D.Don	Lữ đằng cong	Scrophulariaceae	Herb	Med	x	x		x
<i>Lindernia ruellioides</i> Penn.	Lữ đằng dang nõ	Scrophulariaceae	Herb	Med	x	x		x
<i>Mazus pumilus</i> (Burm.f) Steen		Scrophulariaceae	Herb	Edi			x	
<i>Paulownia fargesii</i> Franch.		Scrophulariaceae	Tree	Woo			x	
<i>Scoparia dulcis</i> L.	Cam thảo nam	Scrophulariaceae	Herb	Med	x	x	x	x
<i>Torenia chevalieri</i> Bonati	Tô liên chevalier	Scrophulariaceae	Herb	Orn	x	x		

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<i>Torenia concolor</i> Lindl.	Tô liên cùng màu	Scrophulariaceae	Herb	Med, Orn	x	x	x	x
<i>Torenia scandens</i> Bonati		Scrophulariaceae	Herb	Med, Orn				
<i>Ailanthus triphysa</i> Alston	Càng hom	Simaroubaceae	Tree	Med, Woo	x	x	x	x
<i>Brucea javanica</i> (L.) Merr.		Simaroubaceae	Shrub	Med			x	
<i>Eurycoma longifolia</i> Jack		Simaroubaceae	Tree	Med			x	
<i>Picrasma javanica</i> Blume	Khô diệp	Simaroubaceae	Tree	Med	x	x		x
<i>Heterosmilax gaudichaudiana</i> Maxim.	Khúc khắc	Smilacaceae	Liana	Med				x
<i>Heterosmilax paniculata</i> Gagnep.	Khúc khắc cột ghi ngắn	Smilacaceae	Liana	Med				x
<i>Heterosmilax polyandra</i> Gagnep.		Smilacaceae	Liana	Med			x	
<i>Smilax aberrans</i> Gagnep.		Smilacaceae	Liana	Med			x	
<i>Smilax aspericaulis</i> Wall. ex A. DC		Smilacaceae	Liana	Med	x	x	x	
<i>Smilax biumbellata</i> T.Koyama	Kim cang hai tán	Smilacaceae	Liana	Med				x
<i>Smilax corubularia</i> Kunth	Kim cang	Smilacaceae	Liana	Med				x
<i>Smilax ferox</i> Wall. ex Kunth	Kim cang gai	Smilacaceae	Liana	Med	x	x		
<i>Smilax glabra</i> Wall.ex Roxb.		Smilacaceae	Liana	Med	x	x	x	
<i>Smilax lanceifolia</i> Roxb.		Smilacaceae	Liana	Med			x	
<i>Smilax sp.1</i>	Kim cang	Smilacaceae	Liana	Med	x			
<i>Smilax sp.2</i>	Kim cang	Smilacaceae	Liana			x		
<i>Smilax sp.3</i>		Smilacaceae	Liana	Med			x	
<i>Datura suaveolens</i> (Willd.) Bercht. et Presl.		Solanaceae	Herb	Poi			x	
<i>Lycianthes biflora</i> (Lour.) Bitter	Cà hai hoa	Solanaceae	Herb	Med	x	x	x	x
<i>Lycianthes bigeminata</i> (Nees) Bitter		Solanaceae	Herb				x	
<i>Lycopersicon esculentum</i> Mill.	Cà tô mách chim	Solanaceae	Herb		x	x		
<i>Nicotiana tabacum</i> L.	Thuốc lá	Solanaceae	Herb	Med	x	x		

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<i>Physalis angulata</i> L.		Solanaceae	Herb	Edi, Med	x	x	x	x
<i>Solanum cyanocarphium</i> Blume		Solanaceae	Herb	Med			x	
<i>Solanum erianthum</i> D.Don	Cà gỗ	Solanaceae	Shrub	Med	x	x	x	x
<i>Solanum melongena</i> L.		Solanaceae	Herb	Edi			x	
<i>Solanum nigrum</i> L.	Thù lù đực	Solanaceae	Herb	Edi, Med	x	x	x	x
<i>Solanum surallensis</i> Burm.f.		Solanaceae	Herb				x	
<i>Solanum torvum</i> Sw.	Cà nông	Solanaceae	Herb	Edi, Med	x	x		
<i>Solanum virginianum</i> L.		Solanaceae	Herb				x	
<i>Duabanga grandiflora</i> (Roxb.ex DC.) Walp.	Phay	Sonneratiaceae	Tree	Woo,Orn	x	x	x	x
<i>Turpinia hatuyenensis</i> T.Đ.Đai & Yakovlev	Côi hà tuyên	Staphylleaceae	Tree		x	x		
<i>Turpinia indochinensis</i> Merr.		Staphylleaceae	Tree	Woo			x	
<i>Turpinia montana</i> (Blume) Kurz	Côi núi	Staphylleaceae	Tree	Woo	x	x	x	x
<i>Stemona pierrei</i> Gagnep.	Bách bộ Piere	Stemonaceae	Liana	Med	x	x		
<i>Stemona tuberosa</i> Lour.	Bách bộ	Stemonaceae	Liana	Med			x	x
<i>Alniphyllum eberhardtii</i> Guillaum.	Bồ đề xanh	Styracaceae	Tree	Woo			x	x
<i>Rehderodendron kweichowense</i> H. H. Hu		Styracaceae	Tree	Woo			x	
<i>Rehderodendron macrocarpum</i> H. H. Hu		Styracaceae	Tree	Woo			x	
<i>Styrax annamensis</i> Guillaum		Styracaceae	Tree	Woo			x	
<i>Styrax crotonoides</i> C.B.Clarke	Bồ đề lá cù đèn	Styracaceae	Tree	Woo	x			
<i>Styrax tonkinensis</i> (PierreCraib ex Hartwiss	An tức bắc bộ	Styracaceae	Tree	Med, Woo, Fib, Bio	x	x	x	x
<i>Symplocos cambodiana</i> Hall.f.	Dung cam bột	Symplocaceae	Tree	Woo	x	x	x	
<i>Symplocos cochinchinensis</i> (Lour.) S. Moore	Dung nam bộ	Symplocaceae	Tree	Woo	x	x	x	
<i>Symplocos glauca</i> (Thunb) Koidz.		Symplocaceae	Tree	Woo			x	

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<i>Symplocos groffii</i> Merr		Symplocaceae	Tree	Woo			x	
<i>Symplocos hookeri</i> C.B. Clarke		Symplocaceae	Tree	Woo			x	
<i>Symplocos lancifolia</i> Sieb. & Zucc	Dung lá thon	Symplocaceae	Tree	Med, Woo	x	x	x	x
<i>Symplocos laurina</i> (Retz) Wall.	Dung lá trà	Symplocaceae	Tree	Med, Woo	x	x	x	
<i>Symplocos longifolia</i> Fletch.	Dung lá dài	Symplocaceae	Tree	Med, Woo				x
<i>Symplocos rigida</i> Clarke	Dung lá chiếc	Symplocaceae	Tree	Woo	x	x	x	x
<i>Symplocos sp.</i>		Symplocaceae	Tree	Woo			x	
<i>Symplocos viridissima</i> Brand.	Dung rất xanh	Symplocaceae	Tree	Woo	x	x		
<i>Symplocos wikstroemiifolia</i> Hayata		Symplocaceae	Tree	Woo			x	
<i>Tacca chantrieri</i> Andre	Râu hùm hoa tía	Taccaceae	Herb	Med	x	x	x	x
<i>Tacca plantaginea</i> (Hance) Drenth	Hôi đầu	Taccaceae	Herb			x		
<i>Tapiscia sinensis</i> Oliv.	Trương hôi	Tapisciaceae	Tree	Woo	x	x		
<i>Adinandra annamensis</i> Gagnep.	Hồng đạm trung bộ	Theaceae	Tree	Woo	x	x		
<i>Adinandra integerrima</i> T. Anders. ex Dyer in Hook.		Theaceae	Tree	Woo			x	
<i>Adinandra millettii</i> Benth. & Hook. f. ex Hance	Súm millett	Theaceae	Tree	Woo	x	x		
<i>Camellia caudata</i> Wall.	Trà hoa đuôi	Theaceae	Tree	Orn	x	x	x	x
<i>Camellia hamyenensis</i> M. Sealy	Trà hoa vàng hàm yên	Theaceae	Tree	Orn, Med	x			x
<i>Camellia phanii</i> Hakoda & N. Tran	Trà hoa phan	Theaceae	Tree	Orn, Med	x			
<i>Camellia sinensis</i> Kuntze.	Trà	Theaceae	Tree	Orn, Med	x	x		
<i>Camellia sinensis</i> var. <i>assamica</i> (J.W. Mast.) Kitam.	Chè san	Theaceae	Tree	Orn, Med			x	x
<i>Camellia sp. 1</i>	Trà hoa vàng	Theaceae	Tree			x		
<i>Camellia sp. 2</i>	Trà hoa đỏ	Theaceae	Tree	Orn				x
<i>Eurya acuminata</i> DC. var. <i>euprista</i> Korth.	Son trà nhọn	Theaceae	Tree					x

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<i>Eurya japonica</i> Thunb.	Sơn trà nhật	Theaceae	Tree		x	x		x
<i>Gordonia axillaris</i> (Roxb. ex Ker-Gawl.) Endl	Gò đồng nách	Theaceae	Tree	Orn	x	x	x	
<i>Schima noronhae</i> Reinw.		Theaceae	Tree	Woo				
<i>Schima wallichii</i> Choisy	Vối thuốc	Theaceae	Tree	Woo	x	x	x	x
<i>Stewartia calcicola</i> T.L. Ming & J. Li		Theaceae	Tree	Woo			x	
<i>Daphne composita</i> (Chen et al.) Gilg in Engl. & Prantl	Dó kép	Thymelaeaceae	Shrub			x		
<i>Wikstroemia meyeniana</i> Warb.in Perkins		Thymelaeaceae	Herb	Fib			x	
<i>Wikstroemia nutans</i> Champ. ex Benth	Niệt dó thông	Thymelaeaceae	Shrub			x		
<i>Paris polyphylla</i> Smith	Bảy lá một hoa	Trilliaceae	Herb	Med	x	x		
<i>Aphananthe aspera</i> (Thunb.) Planch. in DC	U du nhám	Ulmaceae	Tree	Woo				x
<i>Aphananthe lissophylla</i> Gagnep.		Ulmaceae	Tree	Woo			x	
<i>Celtis philippensis</i> Blanco	Sếu philippin	Ulmaceae	Tree	Woo				x
<i>Celtis sinensis</i> Person		Ulmaceae	Tree	Orn, Woo			x	
<i>Celtis tetrandra</i> Roxb.	Ma trá tứ hùng	Ulmaceae	Tree	Orn, Woo				x
<i>Gironniera cuspidata</i> Kurz	Ngát tron	Ulmaceae	Tree	Woo				x
<i>Gironniera subaequalis</i> Planch.	Ngát	Ulmaceae	Tree	Woo			x	x
<i>Trema angustifolia</i> Blume		Ulmaceae	Tree				x	
<i>Trema cananbina</i> Lour.	Trần mai cần	Ulmaceae	Tree	Woo				x
<i>Trema orientalis</i> Blume	Hu đay	Ulmaceae	Tree	Edi, Med, Fib			x	x
<i>Trema tomentosa</i> (Roxb.) Hara.		Ulmaceae	Tree	Woo			x	
<i>Boehmeria clidemioides</i> Miq. var <i>diffusa</i> Hand.- Mazz.	Gai	Urticaceae	Shrub	Med	x	x		
<i>Boehmeria holoseracea</i> Blume.		Urticaceae	Shrub	Med			x	

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<i>Boehmeria malabarica</i> Wedd.	Gai mã lai	Urticaceae	Shrub	Med	x	x		x
<i>Boehmeria nivea</i> Gaudich.	Gai tuyết	Urticaceae	Shrub	Edi, Med, Fib	x	x	x	x
<i>Boehmeria tonkinensis</i> Gagnep.	Gai bắc bộ	Urticaceae	Shrub		x	x		
<i>Debregeasia longifolia</i> (Burm.f.) Wedd.	Đề gia	Urticaceae	Shrub					x
<i>Debregeasia squamata</i> King. ex Hook.f.	Trúng cua	Urticaceae	Shrub		x	x		
<i>Debregeasia velutina</i> Gaud.	Trúng cua lông	Urticaceae	Shrub	Med	x	x		x
<i>Dendrocnide sinuata</i> Chew	Han trắng	Urticaceae	Tree	Poi	x	x		x
<i>Dendrocnide urentissima</i> Chew.	Mán voi	Urticaceae	Tree	Poi	x	x	x	x
<i>Elatostema colonieae</i> Gagnep		Urticaceae	Herb				x	
<i>Elatostema atropurpurea</i> Gagnep.	Cao hùng đen tía	Urticaceae	Herb	Edi	x	x	x	
<i>Elatostema atropurpurea</i> Gagnep.	Cao hùng đen tía	Urticaceae	Herb	Edi				x
<i>Elatostema balansae</i> Gagnep.	Cao hùng balansa	Urticaceae	Herb	Med	x	x	x	x
<i>Elatostema baviensis</i> Gagnep.	Cao hùng ba vì	Urticaceae	Herb	Edi	x	x		
<i>Elatostema dissecta</i> Wedd.	Cao hùng cắt hai	Urticaceae	Herb	Edi	x	x		
<i>Elatostema eurhynchnm</i> Miq.	Cao hùng chùy	Urticaceae	Herb	Med	x	x		
<i>Elatostema gagnepainiana</i> Schoter	Cao hùng gagnepain	Urticaceae	Herb	Med	x	x		
<i>Elatostema lineolatum</i> Wight	Cao hùng nhọn	Urticaceae	Herb	Med	x	x		x
<i>Gonostegia hirta</i> Miq.	Thuộc vôi lông	Urticaceae	Shrub	Med	x	x		
<i>Gonostegia pentandra</i> Miq.	Thuộc vôi	Urticaceae	Herb	Med	x	x		x
<i>Laportea interrupta</i> Chew	Cây ngứa	Urticaceae	Shrub	Poi	x	x		
<i>Oreocnide intergrifolia</i> Mig.	Nai bìa nguyên	Urticaceae	Shrub	Med	x	x		
<i>Pellionia cristulata</i> Gagnep.	Phu lệ mỏng nhỏ	Urticaceae	Herb	Med	x	x		
<i>Pellionia macroceras</i> Gagnep.	Phu lệ sừng to	Urticaceae	Herb	Med				x
<i>Pellionia trichosanthes</i> Gagnep.	Phu lệ	Urticaceae	Herb	Med	x	x		x
<i>Pilea hookeriana</i> Wedd	Nan ông hooke	Urticaceae	Herb	Med	x	x		x

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<i>Pilea peploides</i> Hook. & Arn	Nan ông núi đá	Urticaceae	Herb	Med	x	x		x
<i>Poikilospermum suaveolens</i> Merr.	Rum thom	Urticaceae	Shrub	Med	x	x		x
<i>Pouzolzia pentandra</i> Benn		Urticaceae	Shrub	Med			x	
<i>Pouzolzia hirta</i> (Blume) Miq.	Thuộc vôi	Urticaceae	Shrub	Med				x
<i>Pouzolzia sanguinea</i> (Blume) Merr		Urticaceae	Shrub	Med	x	x	x	x
<i>Villebrunea frutescens</i> Blume		Urticaceae	Shrub				x	
<i>Valeriana hardwickii</i> Wall. hardwickii Wall.		Valerianaceae	Herb	Med			x	
<i>Rinorea bengalensis</i> (Wall.) Kuntze	Quần diệp bengal	Violaceae	Tree		x	x	x	
<i>Viola philippica</i> var. <i>pseudojaponica</i> (Nakai) Y.S.Chen	Hoa tím tâm ngắn	Violaceae	Herb	Orn	x	x		
<i>Viola</i> sp.		Violaceae	Herb	Orn			x	
<i>Viola tonkinensis</i> Gagnep.		Violaceae	Herb	Orn			x	
<i>Viscum ovalifolium</i> Wall. ex DC.	Ghi lá xoan	Viscaceae	Epiph.	Med				
<i>Ampelopsis cantoniensis</i> (Hook. & Arn.) Planch		Vitaceae	Liana	Med			x	
<i>Ampelopsis heterophylla</i> Sieb. & Zucc.	Song nho dị diệp	Vitaceae	Liana	Med	x	x		x
<i>Cayratia corniculata</i> (Benth.) Gagnep.		Vitaceae	Liana	Med			x	
<i>Cayratia geniculate</i> (Blume) Gagnep.		Vitaceae	Liana	Med	x	x	x	
<i>Cayratia japonica</i> Gagnep.	Vác nhật	Vitaceae	Liana	Med	x	x		x
<i>Cayratia trifolia</i> Domin	Vác	Vitaceae	Liana	Med	x	x		x
<i>Cissus asamica</i> (Laws.) Craib.	Hồ đăng	Vitaceae	Liana	Med	x	x		
<i>Cissus repens</i> Lamk.	Dây chìa vôi	Vitaceae	Liana	Med	x	x		x
<i>Cissus subtetragona</i> Planch.		Vitaceae	Liana	Med			x	
<i>Cissus triloba</i> (Lour.) Merr.		Vitaceae	Liana	Med			x	
<i>Leea compactiflora</i> Kurz	Gối hạc lá hoa	Vitaceae	Shrub	Med	x	x		x

Scientific name	Vietnamese name	Family	Plant habit	Use	Cham Chu	Bac Me	Phia Oac	Nam Xuan Lac
<i>Leea rubra blume ex Spreng.</i>	Gối hạc ta	Vitaceae	Shrub	Med	x	x		
<i>Tetrastigma beauvaisi Gagnep.</i>	Dây đen	Vitaceae	Liana	Med	x	x		x
<i>Tetrastigma henryi Gagnep.</i>	Tứ thư henry	Vitaceae	Liana	Med	x	x		
<i>Tetrastigma obtecta (Wall.) Planch.</i>		Vitaceae	Liana	Med			x	
<i>Tetrastigma petelotii Gagnep.</i>	Tứ thư petelot	Vitaceae	Liana	Med	x	x		x
<i>Tetrastigma planicaule (Hook.) Gagnep.</i>	Dây quai ba lô	Vitaceae	Liana	Med	x	x	x	x
<i>Tetrastigma quadrangulum Gagnep. & Craib</i>		Vitaceae	Liana	Med			x	
<i>Dianella ensifolia (L.) DC.</i>		Xanthorrhoeaceae	Shrub	Poi			x	
<i>Alpinia blepharocalyx K. Schum.</i>	Riềng bẹ	Zingiberaceae	Herb	Med	x	x	x	
<i>Alpinia chinensis (Koenig in Retz.) Rosc</i>	Lương khung	Zingiberaceae	Herb	Med		x		
<i>Alpinia conchigera Griff</i>	Giềng rừng	Zingiberaceae	Herb	Med	x	x	x	
<i>Alpinia globosa (Lour.) Horan</i>		Zingiberaceae	Herb	Edi, Med	x	x	x	x
<i>Amomum echinosphaera K. Schum</i>		Zingiberaceae	Herb	Med			x	
<i>Amomum longiligulare T.L. Wu</i>	Sa nhân	Zingiberaceae	Herb	Med	x	x		x
<i>Amomum muricarpum Elmer</i>	Sa nhân mũi	Zingiberaceae	Herb	Med	x	x		x
<i>Amomum thyrsoideum Gagnep.</i>		Zingiberaceae	Herb	Med			x	
<i>Amomum villosum Lour.</i>	Mè ché bà	Zingiberaceae	Herb	Edi, Med	x	x		x
<i>Curcuma aromatica Salisb.</i>	Nghệ trắng	Zingiberaceae	Herb	Med	x	x		
<i>Curcuma longa L.</i>	Nghệ	Zingiberaceae	Herb	Med	x	x		
<i>Globba clarkei Baker</i>		Zingiberaceae	Herb	Med			x	
<i>Hedychium coronarium J. Koenig</i>	Ngải tiên	Zingiberaceae	Herb	Med	x		x	x
<i>Hedychium ellipticum Buch.- Ham ex Smith</i>	Ngải tiên bầu dục	Zingiberaceae	Herb	Med	x	x		
<i>Kaempferia candida Wall</i>	Địa liên trắng	Zingiberaceae	Herb	Med	x	x		
<i>Kaempferia galanga L.</i>	Thiên liên	Zingiberaceae	Herb	Med, Orn	x			
<i>Kaempferia rotunda L.</i>	Cắm địa	Zingiberaceae	Herb	Med, Orn	x			

Scientific name	Vietnamese name	Family	Plant habit	Use	Cham Chu	Bac Me	Phia Oac	Nam Xuan Lac
<i>Silvum tonkinense</i> Baill	Sa nhân giác	Zingiberaceae	Herb	Med	x	x	x	
<i>Zingiber cassumunar</i> Roxb.		Zingiberaceae	Herb				x	
<i>Zingiber officinale</i> Rosc.	Gừng	Zingiberaceae	Herb	Edi, Med	x	x		
<i>Zingiber sp.</i>	Giềng lá nhỏ	Zingiberaceae	Herb		x	x		
<i>Zingiber zerumbet</i> Smith.	Gừng gió	Zingiberaceae	Herb	Med	x	x		x

Annex 4. Assessment of conservation status

Species	IUCN	VNRDB	ND 06/2019	CITES	Cham Chu	Bac Me	Phia Oac	Nam Xuan Lac
<i>Acanthephippium gougahensis</i> (Guillaumin) Seidenf.			IIA	II	x	x		
<i>Actinodaphne ellipticibacca</i> Kosterm.	VU	VU			x	x		
<i>Aerides crassifolia</i> C.S.P.Parish ex Burb.			IIA			x		
<i>Aerides falcatum</i> Lindl.		VU	IIA				x	
<i>Aerides rosea</i> Lodd. ex Lindl. & Paxton			IIA			x		
<i>Aglaia spectabilis</i> Jain & Bennet.		VU			x	x		x
<i>Alniphyllum eberhardtii</i> Guillaum		EN						
<i>Alniphyllum eberhardtii</i> Guillaum.		EN						
<i>Anaphora liparioides</i> Gagnep			IIA				x	
<i>Anoectochilus calcareus</i> Aver.		EN	IA	II	x	x	x	
<i>Anoectochilus lanceolatus</i> Lindl.			IIA					x
<i>Anoectochilus setaceus</i> Blume		EN	IA			x	x	
<i>Anthogonium gracile</i> Wall. & Lindl.			IIA	II	x	x		
<i>Appendicula cornuta</i> Blume			IIA				x	
<i>Arachnis bilingnis</i> (Benth. ex Hook. f.) Schltr.			IIA				x	
<i>Ardisia silvestris</i> Pit.		VU			x			x
<i>Aristolochia indica</i> L.		VU			x	x		x
<i>Arundina graminifolia</i> (D. Don) Hochr.			IIA	II	x	x	x	x
<i>Asarum maximum</i> Hemsl.			IIA				x	
<i>Asarum balansae</i> Franch.		EN	IIA		x	x		x
<i>Asarum caudigerum</i> Hance		VU	IIA		x	x	x	
<i>Aucuba japonica</i> Thunb.		CR			x	x	x	
<i>Balanophora laxiflora</i> Hemsley		EN			x	x		
<i>Beilschmiedia balansae</i> Lecomte	EN							x
<i>Bulbophyllum affine</i> Lindl.			IIA				x	
<i>Bulbophyllum sigaldiae</i> Guillaum			IIA	II	x	x		

<i>Bulbophyllum simondii</i> Gagnep			IIA	II	x	x		
<i>Bulbophyllum spadiceiflorum</i> Tix.			IIA				x	
<i>Bulbophyllum stenobulbon</i> Parish & Reichb. F			IIA	II	x	x		
<i>Bulbophyllum tixieri</i> Seidenf.			IIA				x	
<i>Burretiodendron hsienmu</i> W.Y.Chun & F.C.How	EN	EN	IIA		x	x		x
<i>Calamus nambariensis</i> Becc.		VU	IIA				x	x
<i>Calamus platyacanthus</i> Warb. & Becc.		VU	IIA		x	x		
<i>Calamus poilanei</i> Conrard		EN	IIA		x	x		x
<i>Calanthe brachycahina</i> Gagnep.			IIA				x	
<i>Calanthe clavata</i> Lindl			IIA	II	x	x	x	
<i>Calanthe densiflora</i> Lindl			IIA	II	x	x	x	x
<i>Calanthe herbacea</i> Lindl.			IIA	II	x	x		
<i>Calanthe triplicata</i> Ames			IIA	II	x	x		x
<i>Calocedrus rupestris</i> Aver., T.H.Nguyễn & P.K.Lôc	EN		IIA		x	x		
<i>Canarium pimela</i> K.D.Koenig		VU			x	x		x
<i>Canthium dicoccum</i> (Gaertn.) Teysm. & Binn.		VU					x	
<i>Castanopsis cerebrina</i> (Hickel & A.Camus) Barnett		EN					x	
<i>Castanopsis formosana</i> Hayata		EN			x	x		x
<i>Cherirostylis spathulata</i> J.J. Smith			IIA	II	x	x		
<i>Chukrasia tabularis</i> A.Juss.		VU			x			
<i>Chukrasia tabularis</i> A.Juss.		VU			x			x
<i>Cibotium barometz</i> (L.) J. Sm.			IIA	II	x		x	x
<i>Cinnamomum balansae</i> H. Lecomte	EN	VU	IIA					x
<i>Cinnamomum parthenoxylon</i> (Jack) Meisn		CR	IIA		x			
<i>Codonopsis javanica</i> (Blume) Hook.f.		VU	IIA				x	
<i>Coelogyne fimbriata</i> Lindl.			IIA			x		
<i>Coelogyne nitida</i> (Wall. ex D.Don) Lindl.			IIA				x	

<i>Corymborkis veratrifolia</i> Blume			IIA					x
<i>Cupressus vietnamensis</i> (Farjon & T.H.Nguyên) Silba	EN	CR	IA			x		
<i>Curculigo orchioides</i> Gaertn		EN					x	
<i>Cyathea chinensis</i> Copel.			IIA	PL2	x		x	
<i>Cyathea contaminans</i> Cop			IIA	II	x			
<i>Cyathea gigantea</i> Holttum			IIA	II	x		x	x
<i>Cycas diannanensis</i> Z.T.Guan & G.D.Tao			IIA	II	x			x
<i>Cymbidium sinense</i> (Jacks. ex Andrews) Willd.			IIA				x	
<i>Dalbergia assamica</i> Benth				II	x	x		
<i>Dalbergia multiflora</i> Prain				II	x			
<i>Dendrobium anosmum</i> Lindl.			IIA			x		
<i>Dendrobium brymerianum</i> Rchb.f.			IIA					x
<i>Dendrobium chlorostylum</i> Gagnep.			IIA	II	x	x		
<i>Dendrobium chrysanthum</i> Wall. ex Lindl.		EN	IIA			x		
<i>Dendrobium chryseum</i> Rolfe			IIA	II	x	x	x	
<i>Dendrobium fimbriatum</i> Hook. f.		VU	IIA	II	x	x		x
<i>Dendrobium lindleyi</i> Steud.			IIA					x
<i>Dendrobium nobile</i> Lindl		EN	IIA		x	x		
<i>Dendrobium thyrsiflorum</i> B.S.Williams			IIA			x		
<i>Didymoplexiopsis khiriwongensis</i> Seidenf.			IIA	II	x	x		x
<i>Diospyros mollis</i> Griff.		EN			x	x		
<i>Diplopanax stachyanthus</i> Hand.-Mazz	VU						x	
<i>Dipterocarpus retusus</i> Blume.	EN	VU			x			x
<i>Disporopsis longifolia</i> Craib		VU	IIA		x	x	x	x
<i>Drynaria bonii</i> H.Christ		VU	IIA		x			x
<i>Drynaria fortunei</i> (Kuntze ex Mett.) J. Smith		EN	IIA				x	
<i>Dysosma difformis</i> T.H.Wang		EN	IIA		x	x		x
<i>Embelia parviflora</i> Wall. ex A. DC.		VU			x			x
<i>Epipogium roseum</i> (D. Don) Lind.			IIA					x
<i>Eria coronaria</i> (Lindl.) Rchb.f.			IIA			x	x	x

<i>Fernandoa bracteata</i> Steenis			IIA		x	x		x
<i>Fernandoa brilletii</i> Steen.			IIA		x	x		
<i>Fernandoa serrata</i> Steen.			IIA		x	x		x
<i>Fibraurae recissa</i> Pierre			IIA		x	x		x
<i>Fibraurae tinctoria</i> Lour.			IIA		x	x		
<i>Fibraurae tinctoria</i> Lour.			IIA					
<i>Fibraurea recisa</i> Pierre			IIA				x	
<i>Garcinia fagraeoides</i> A. Chev			IIA		x	x		x
<i>Gastrochilus yunnanensis</i> Schltr.			IIA	II	x	x		x
<i>Gnetum montanum</i> Markgr.				III	x		x	
<i>Goniothalamus macrocalyx</i> Bân	VU	VU			x	x		x
<i>Goodyera fumata</i> Thwaites			IIA	II	x	x		x
<i>Goodyera hispida</i> Lindl.			IIA		x			x
<i>Goodyera schlechtendaliana</i> Rchb. f.			IIA				x	
<i>Gynostemma pentaphyllum</i> (Thunb.) Makino		EN			x	x	x	x
<i>Habenaria poilanei</i> Gagnep.			IIA	II	x	x		x
<i>Helicia grandifolia</i> H. Lec	VU				x		x	
<i>Homalomena gigantea</i> Engl.		VU			x	x		x
<i>Homalonema pierreana</i> Engler.		VU					x	
<i>Huperzia serrata</i> (Thunb.) Trevis.			IIA				x	
<i>Illicium difengbi</i> B. N. Chang		VU			x			x
<i>Illicium ternstroemioides</i> A.C.Sm.	VU						x	
<i>Kadsura coccinea</i> (Lem.) A.C. Smith			IIA		x	x		x
<i>Liparis conopea</i> Aver		EN	IIA				x	
<i>Liparis cordifolia</i> Hook.f.			IIA					x
<i>Liparis penduliflora</i> Szlach			IIA	II	x	x		x
<i>Liparis petiolata</i> Hunt & Summ			IIA	II	x	x		
<i>Liparis piriformis</i> Szlach			IIA					x
<i>Lithocarpus bacgiangensis</i> (Hickel & A. Camus) A. Camus		VU					x	
<i>Lithocarpus bacgiangensis</i> A. Camus		VU			x	x		
<i>Lithocarpus balansae</i> (Drake) A. Camus		VU			x	x	x	

<i>Lithocarpus bonnetii</i> (Hickel & A. Camus) A. Camus		EN			x			
<i>Lithocarpus fenestratus</i> (Roxb.) Rehd		VU				x		
<i>Lithocarpus finettii</i> (Hickel & A. Camus) A. Camus		EN					x	
<i>Lithocarpus vestitus</i> (Hickel & A. Camus) A. Camus		EN					x	
<i>Ludisia discolor</i> (Ker Gawl.) A.Rich.			IIA					x
<i>Magnolia balansae</i> A.DC.		VU				x		
<i>Magnolia grandis</i> (Hu & W.C.Cheng) V.S.Kumar	CR					x		
<i>Mahonia duclouxiana</i> Gagnep.			IIA			x		
<i>Manglietia dandyi</i> (Gagnep.) Dandy in S. Nilsson		VU					x	
<i>Markhamia stipullata</i> Seem		VU			x	x	x	x
<i>Melientha suavis</i> Pierre		VU			x	x	x	x
<i>Michelia balansae</i> Dandy		VU			x			
<i>Mitrephora calcarea</i> Diels ex Ast		VU			x	x		
<i>Murraya glabra</i> (Guillaum.) Guillaum		VU				x		
<i>Nervilia fordii</i> Schltr.		EN	IIA	II	x	x		x
<i>Oberonia emarginata</i> King & Pantl.			IIA					x
<i>Oberonia ensiformis</i> Lindl.			IIA					x
<i>Ophiopogon tonkinensis</i> Rodr.		VU			x	x		
<i>Paphiopedilum helenae</i> Aver	CR	CR	IA			x		
<i>Paphiopedilum hirsutissimum</i> Stein	VU	VU	IA	I	x	x		
<i>Paphiopedilum malipoense</i> S.C.Chen & Z.H.Tsi	EN	EN	IA	I	x	x		
<i>Parashorea chinensis</i> H.Wang	EN				x			
<i>Paris caobangensis</i> Y.H.Ji, H.Li & Z.K.Zhou			IIA				x	
<i>Paris polyphylla</i> Smith	VU	EN	IIA		x	x	x	
<i>Peliosanthes teta</i> Andr.		VU			x			
<i>Peliosanthes teta</i> Andr.		VU						x

<i>Phaius tonkinensis</i> (Aver.) Aver.			IIA					X
<i>Phoebe macrocarpa</i> C. Y. Wu		VU			x	x	x	
<i>Pholidota longipes</i> S.C.Chen & Z.H.Tsi			IIA			x		
<i>Pinus fenzeliana</i> Hand.-Mazz.		VU	IIA		x	x		
<i>Podocarpus neriifolius</i> D.Don				III	x			
<i>Polygonatum punctatum</i> Royl		EN			x	x		x
<i>Porpax grandiflora</i> Seidenf.			IIA				x	
<i>Quercus platycalyx</i> Hickel & A.Camus		VU			x	x		
<i>Rauvofia verticillata</i> Baill.		VU			x			
<i>Rhoiptelea chiliantha</i> Diels & Hand.-Mazz.	VU	EN					x	
<i>Siliquamomum tonkinense</i> Baill	VU				x	x	x	
<i>Spiranthes sinensis</i> (Pers.) Ames			IIA				x	
<i>Stemona pierrei</i> Gagnep.		VU			x	x		
<i>Stephania dielsiana</i> C. Y. Wu		VU	IIA		x	x	x	x
<i>Stephania hernandiifolia</i> (Willd.) Spreng			IIA					x
<i>Stephania japonica</i> Miers			IIA					x
<i>Stephania japonica</i> var. <i>discolor</i> (Blume) Forman			IIA		x	x		
<i>Stephania rotunda</i> Lour.			IIA		x	x	x	x
<i>Strychnos ignatii</i> Berg.		VU			x			x
<i>Tacca chantrieri</i> Andre		VU			x			
<i>Taxus chinensis</i> (Pilg.) Rehd.	EN	VU	IIA	II	x	x		
<i>Tinospora sagittata</i> (Oliv.) Gagnep		VU						x
<i>Vanda concolor</i> Blume			IIA					x
<i>Vrydagzynea albida</i> Blume			IIA					x
<i>Woonyoungia septentrionalis</i> (Dandy) Y.W.Law	VU					x		
<i>Xylopiya pierrei</i> Hance	VU							x
<i>Zeuxine abbreviata</i> Hook.f.			IIA	II	x	x		x
<i>Zeuxine nervosa</i> Benth. ex C.B.Clarke.			IIA					x

Annex 5. Some new species and new recorded species

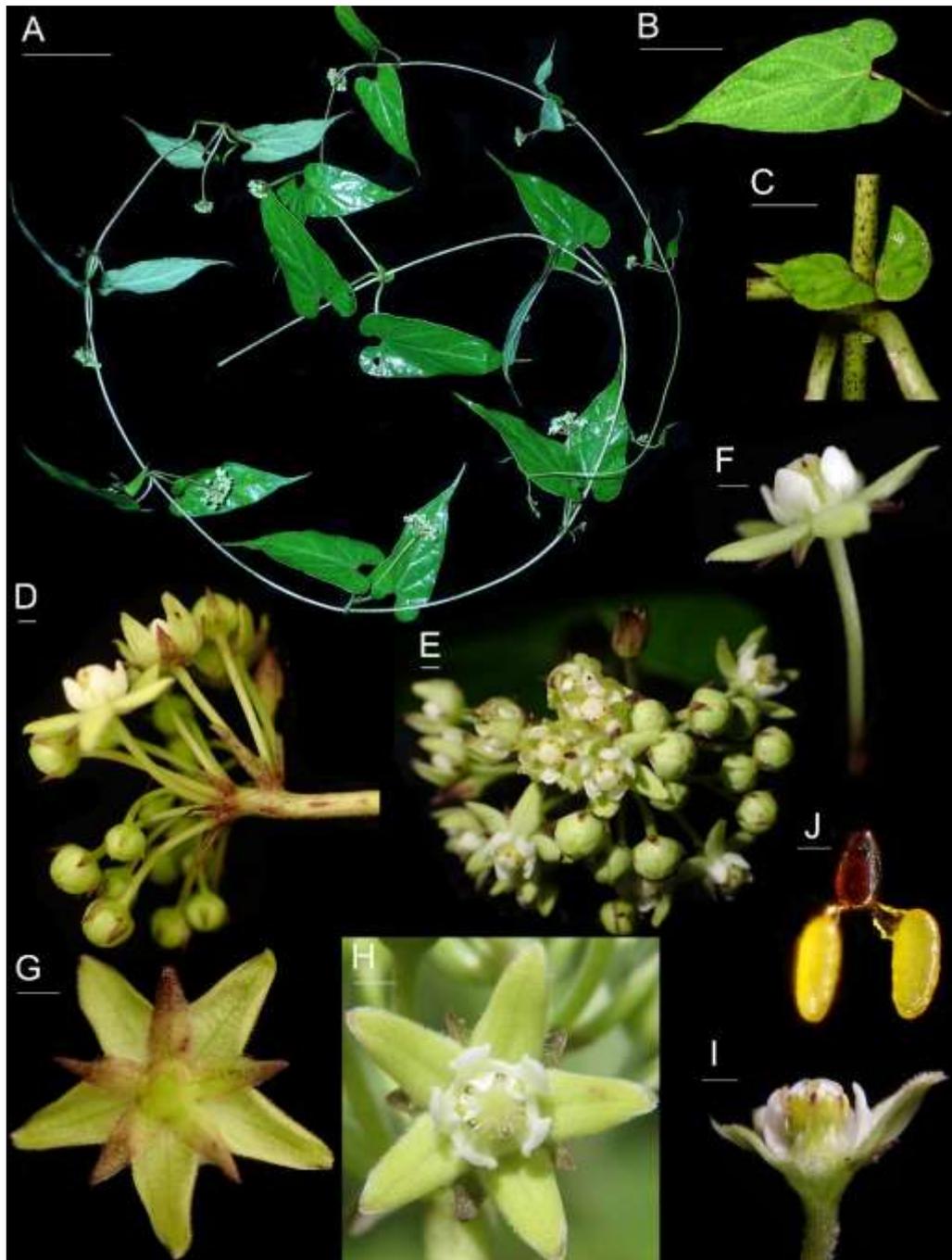


Figure 44. *Cynanchum officinale*

A. Fresh flowering specimen. B. Leaf, adaxial view. C. Stipules. D-E. Inflorescences. F. Flower with pedicel, side view. G-H. Flower, behind and straight views. I. Flower, side view (petal removed). J. Pollinaria. Scale bars: A = 5 cm; B = 2.5 cm; C = 1 cm; D-I = 1 mm; J = 50 μm .

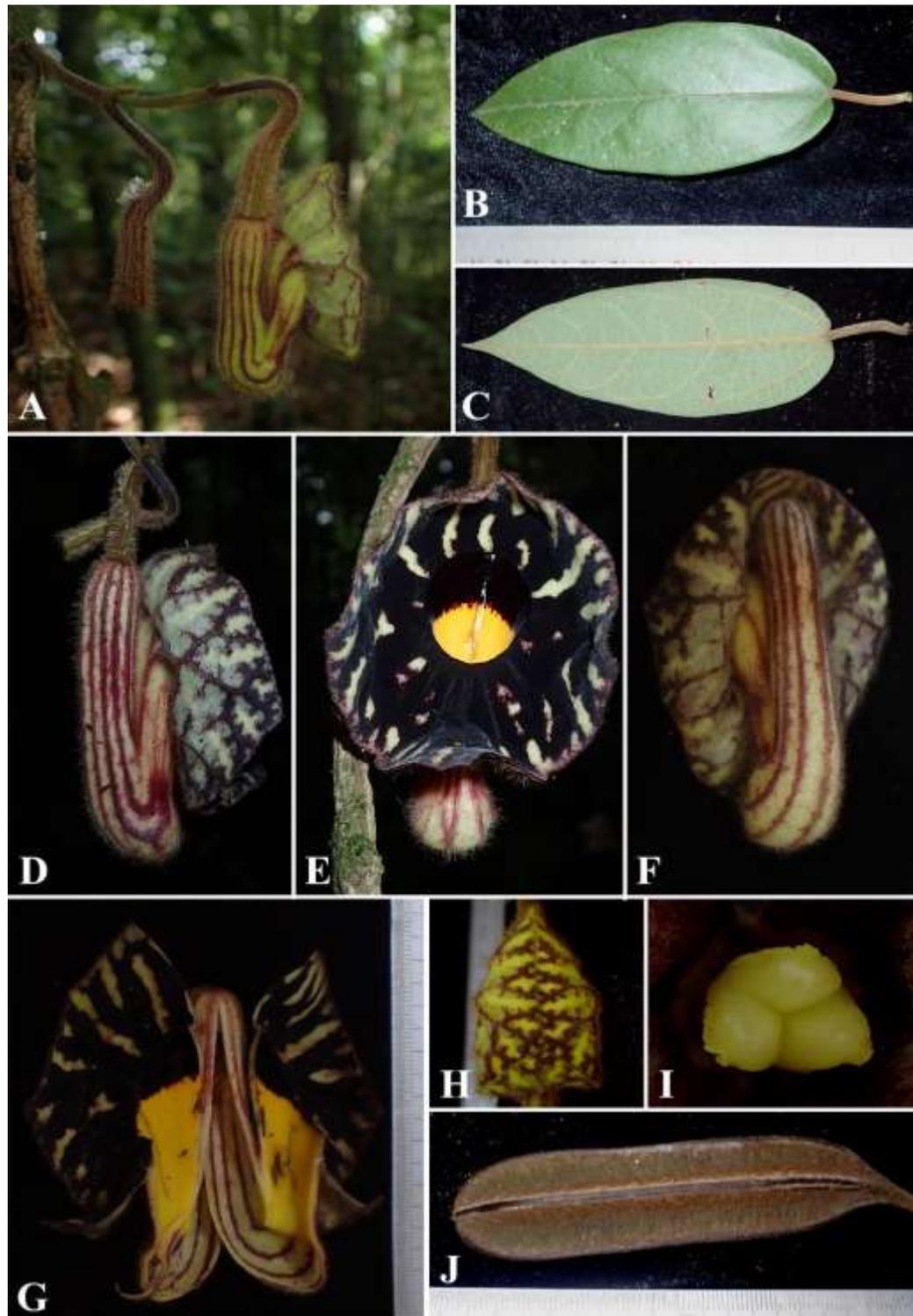


Figure 45. *Aristolochia austroyunnanensis*

A. cymose inflorescence; B. adaxial leaf surface; C. abaxial leaf surface; D. lateral view of opened flower; E. frontal view of opened flower; F. dorsal view of opened flower; G. longitudinal dissection of opened flower; H. flower in pre-anthesis; I. top view of gynostemium; J. shape of capsule.



Figure 46. *Jasminanthes vietnamensis* (Apocynaceae, Aslepiadoideae) - A new species expected from limestone mountain Northern Vietnam



Figure 47. *Begonia bacmeensis* V.T. Pham & C.W. Lin, a new species from Bac Me limestone mountain of Ha Giang province



Figure 48. *Hoya vangviengensis*, a new record species for flora of Vietnam from Cham Chu and Bac Me limestone mountains

Annex 6. Some threaddened species in the study areas

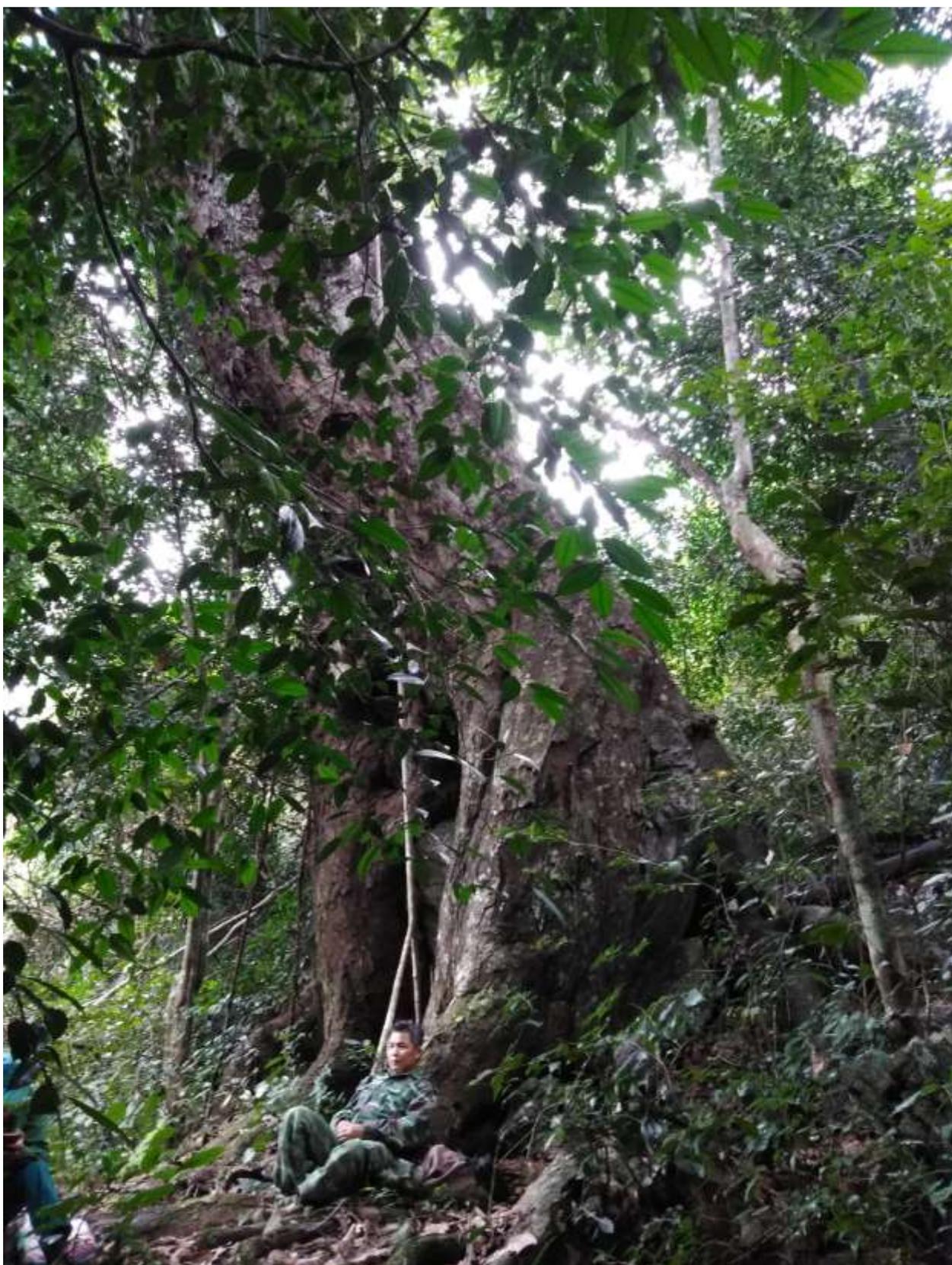


Figure 49. A big trunk of *Burretiodendron hsienmu* in Bac Me NR

Annex 7. Some interesting conifers species in the study areas



Figure 50. *Calocedrus rupestris* in Bac Me NR

Annex 8. Some interesting orchid species in the study areas



Figure 51. *Paphiopedilum hirsutissimum* in the top of limestone mountain

Annex 9. Some interesting Magnolia species in the study areas



Figure 52. Magnolia species in Phia Oac - Phia Den NP

Annex 10. Some local activities were harmfully affected for vegetation and flora of the study areas



Figure 53. The trace of *Ficus vasculosa* illegal cutting in the Cham Chu NR forest



Figure 54. The trace of *Burretiodendron hsienmu* illegal cutting in the Cham Chu NR forest



Figure 55. Tube of *Stephania rotunda* were collected in Bac Me NR



Figure 56. Transferring the tube of *Stephania rotunda* by boat inside the Bac Me NR



Figure 57. Corn farm in the centre of Cham Chu NR



Figure 58. Agricultural farm up to 700 m a.s.l. in Bac Me NR



Figure 59. Rice farm at centre of Bac Me NR



Figure 60. Mineral extraction in Nam Xuan Lac SHCA

Annex 11. Some activities of the field survey and scientific of the group



Figure 61. The camp site of the group inside of forest



Figure 62. Writing specimens labels and fixing in the field work



Figure 63. Dr. Pham Van The is presenting on the “Guideline for Biodiversity Investigation and Monitoring in Phia Oac – Phia Den National Park”



Figure 64. Dr. Pham Van The is presenting on the methodology of Biodiversity Monitoring in Phia Oac – Phia Den National Park



Figure 65. Three work groups are practicing on the " Selection target species and habitat for Biodiversity Monitoring" methodology



Figure 66. A group leader is presenting on her group idea for "Selection target species and habitat for Biodiversity Monitoring"