

Parque Nacional da Serra do Itajaí (southern Brazil) shrub and herbs flora

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ABSTRACT: This paper aim to characterize the herbaceous and shrub species diversity of Parque Nacional da Serra do Itajaí (PNSI). We identified 643 herbaceous and shrub species distributed in 110 families being the most representative family Asteraceae (62 species), Melastomataceae (49) and Rubiaceae (30), besides a two new records for Santa Catarina (*Thelypteris glaziovii* T.F. Reed and *Pseudelephantopus spiralis* Cronquist). We recorded 22 exotic species. Thus, due to the vast diversity of life and the rather large territory, PNSI is one of the most important spots for biodiversity conservation in Santa Catarina.

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INTRODUCTION

Santa Catarina's flora is very well documented due to the memorable efforts of botanists such as Roberto Miguel Klein and Raulino Reitz, founders of Herbário Barbosa Rodrigues and *Flora Ilustrada Catarinense* authors. It is estimated that today 80% of the species are already published in the *Flora Ilustrada Catarinense* (Reitz 1965–1989 and Reis 1999–2011), meaning 3,784 species in 929 genera and 159 families, published in 189 fascicles and 15,008 pages (Reis 2011).

According to Flora do Brasil (2013), in Santa Catarina there are mentioned 4,434 angiosperm species (4,208 native), 420 ferns species *latu sensu* (415 native) and six gymnosperms (three native), totaling 4,860 taxa, which represents about 15% of all known plant species in Brazil and about 31% of the known species in the Atlantic rainforest (Stehmann *et al.* 2009).

Despite of being recorded, many of these species have very few samples, often quite long time ago, particularly not arboreal species, which are often excluded from forest surveys. According to Feelei and Silman (2011), the more a species are collected, the better it can be evaluated for its conservation status, as well as decide appropriate strategies for their preservation.

As pointed out by Gilliam and Roberts (2003), herbaceous synusia is neglected because it does not represent the structure of the forest and also because it does not have commercial value, unlike the trees, which may have economic value assigned to the timber. However, native species often have useful properties, but lack studies prospects for them. The economic importance of herbs and shrubs is, for example, the major source of secondary compounds, widely studied searching for new drugs, besides providing food, fibers, industrial inputs, ornamental, essences, spices, among many other uses to humans (Mentz *et al.* 1997; Coradin *et al.* 2011).

The Itajaí Valley is located in Santa Catarina, and is covered by Atlantic Subtropical Rainforest and has humid

mesothermal climate with hot summers (Cfa) (Köppen 1948). The Itajaí-Açu watershed covers approximately 15,000 km², and, as Leite and Klein (1990) pointed out, the vegetation of this area is known to be very rich in tree species, lianas and epiphytes, especially for tree species such as canela-preta (*Ocotea catharinensis* Mez), laranjeira-do-mato (*Sloanea guianensis* (Aubl.) Benth.), peroba (*Aspidosperma australe* Müll. Arg.) and tanheiro (*Alchornea triplinervia* (Spreng.) Müll. Arg.). Tree ferns dominates the understory like *Alsophila setosa* Kaulf., *Cyathea phalerata* Mart. and *Cyathea corcovadensis* (Raddi) Domin, besides the presence of shrubs of the genus *Psychotria* L. and *Mollinedia* Ruiz & Pavon (Sevegnani *et al.* 2013).

Thus, the objective of this study was to characterize the floristic diversity of herbaceous and shrub species of the largest remnants of Atlantic Subtropical Rainforest in southern Brazil, the Parque Nacional da Serra do Itajaí.

MATERIALS AND METHODS

Study Area

The Parque Nacional da Serra do Itajaí (PNSI) was created in June 2004 with more than 57,000 ha. It is covered by Rainforest (Oliveira-Filho 2009), distributed in sub-montane, montane and upper montane secondary and primary vegetation. The region is predominantly mountainous with altitudes ranging from about 30 to 1000 m. Part of it, which belonged to the former Parque Natural Municipal Nascentes do Garcia, is located in Blumenau city, in the Middle Itajaí Valley, between the coordinates 27°06' S and 49°10' W, in Santa Catarina (Figure 1), southern Brazil.

For logistics reasons, four locations were defined for field studies. The locations are: Parque Ecológico Spitzkopf, RPPN Buguerkopf, Morro do Sapo and Trilha da Chuva, all of them part of Parque Nacional da Serra do Itajaí. The PNSI is part of a major fragment of Atlantic Subtropical Rainforest, which has previously suffered from several human disturbances, but is now in an advanced stage of

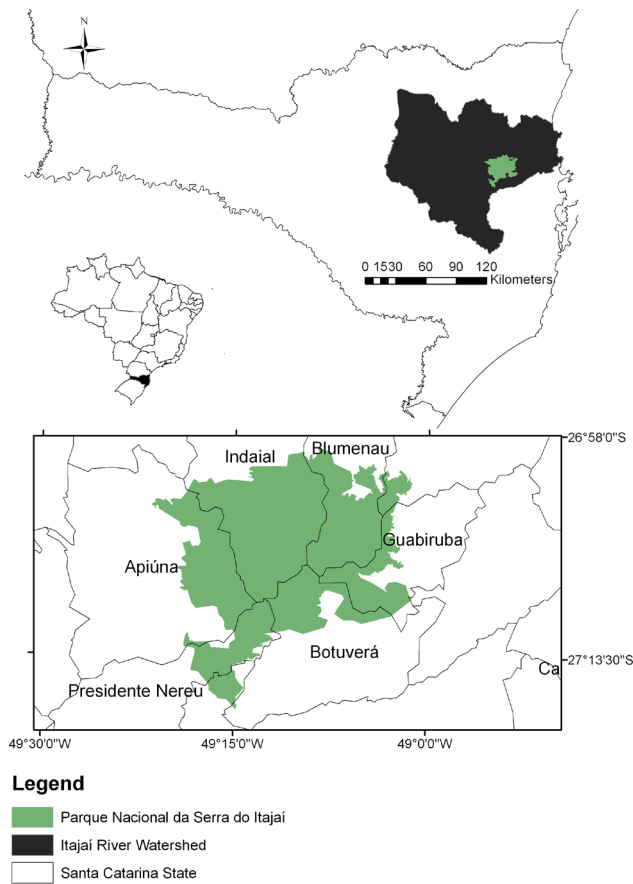


FIGURE 1. Location of the Parque Nacional da Serra do Itajaí, Itajaí Valley, Santa Catarina, Brazil.

regeneration. The climate is tropical humid with no dry season and thermal averages never below 15°C. Rainfall are abundant and evenly distributed throughout the year, however, there is a period of more intense rain during the summer, with less than 60 days with less than 100 mm rainfall. The relative humidity is high, ranging from 84–86% (Santa Catarina 1986).

Data collection

We collected fertile specimens by active search (Filgueiras *et al.* 1994), in previously mentioned locations. One to three fertile individuals of each species were collected and, after processed, deposited at the Herbarium Dr. Roberto Michael Klein (FURB). When necessary, we collected sterile samples, and these were grown in a greenhouse until flowering. We identified the material searching in the literature, discussing with taxonomists and compared it to materials with other herbaria collections. Angiosperm species were classified according to the Angiosperm Phylogeny Group III (APG 2009), ferns according to Smith *et al.* (2006) and adaptations of Rothfels *et al.* (2012), Kramer and Green (1990) for Lycophytes and Christenhusz *et al.* (2011) for Gymnosperms.

We compiled data published in *Flora Ilustrada Catarinense* (Reitz 1965), and herbariums FURB, FLOR, HBR, BHCb, CESJ, CNMT, CRI, FUEL, HEPH, HUCS, HVAT, ICN, JOI, LUSC, MBM, MFS, RB, UEC and UPCB through the *CRIA* database, aiming to increment the herbaceous-shrub list species already sampled at PNSI. We considered in this study all vascular plants with a height equal to or less than 3 m that were using soil or rocks as substrate. We

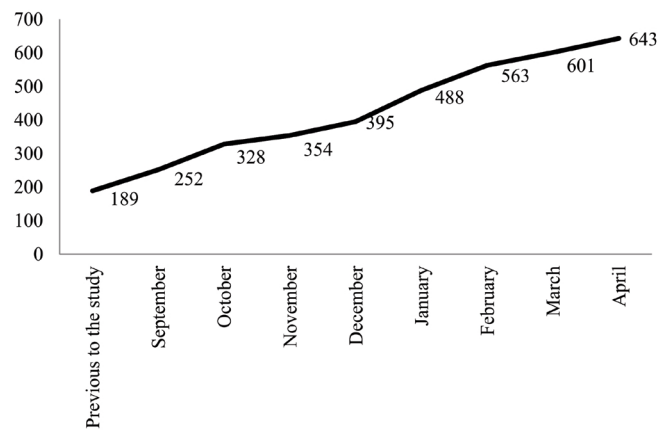


FIGURE 2. Collector curve by month of the species in the Parque Nacional da Serra do Itajaí, Itajaí Valley, Santa Catarina, Brazil. *Species previously collected and which were not collected in this study.

analyzed: species reported in the literature and collected species, new records for PNSI, new records for the state, exotic species, threatened species included at national and state red lists.

We classified the PNSI species by life form according to Raunkiaer (1934). A collector curve (Figure 2) was generated to determine if the species are well sampled. Field trips were made over a half year, during the warm season (September to April), to collect the specimens in reproductive stage. Plants which were not determined at species level were excluded from analysis to avoid overestimating the number of species.

RESULTS

We recorded 643 species from Parque Nacional da Serra do Itajaí (PNSI) (Table 1), these species were distributed in 486 (75.58%) Angiosperms with 86 families (78.18%); 145 (22.55%) fern species, with 21 families (21.81%); 11 species (1.71%) of Lycophytes into two families (1.9%) and one Gymnosperm (<1%). The ten most representative families are in Figure 3. The most abundant life forms were phanerophytes and hemicriptophytes (Figure 4). At least two species, *Thelypteris glaziovii* T.F. Reed (Thelypteridaceae) and *Pseudelephantopus spiralis* Cronquist (Asteraceae) is confirmed to be a new record for Santa Catarina state.

A total of 215 herbaceous and shrubs species (33.17%) were not collected in this study, when compared to

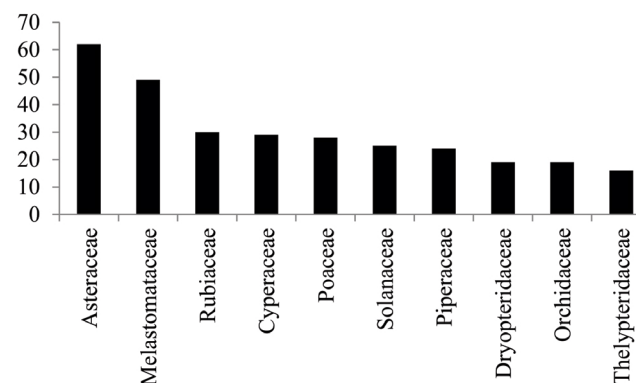


FIGURE 3. Ten most representative families in number of species in the herbaceous and shrubby of the Parque Nacional da Serra do Itajaí, Itajaí Valley, Santa Catarina, Brazil.

literature or CRIA data base. We found during the field trips 428 species, and 217 (33.74%) are new records for PNSI.

From the 643 species recorded in this study, 22 were exotic species (Table 1). We also found five threatened species and a new species of *Rhynchospora* Vahl is been described.

DISCUSSION

The importance of this Protected Areas for Atlantic Subtropical Rainforest (southern Brazil) biodiversity protection is proved, once again, by its richness. Adding up the tree species researched by the Management Plan of PNSI (Brasil 2009), where 340 tree and shrub species were recorded, as well as collections made by other researchers in PNSI, until now there were recorded 1,086 species of vascular.

We found epiphytes species in herbaceous stratum, growing over the leaf litter layer on top of Morro do Sapo and Spitzkopf such as *Prosthechea bulbosa* (Vell.) W.E. Higgins, *Prosthechea vespa* (Vell.) W.E. Higgins and *Coppensia flexuosa* (Lodd.) Campacci (Orchidaceae), *Vriesea erythrodactylon* (E. Morren) E. Morren ex Mez, *Vriesea rodigasiana* E. Morren and *Nidularium innocentii* Lem. (Bromeliaceae), *Pleiochiton blepharodes* (DC.) Reginato *et al.* (Melastomataceae) and species of *Nematanthus* Schrad. (Gesneriaceae) as has already been reported by Klein (1980).

The new record *Thelypteris glaziovii* had already been reported by Ponce (1998) in Santa Catarina and Rio Grande do Sul states, but no voucher was presented. Salino and Semir (2004) reduced its distribution only to southeastern Brazil, and more recently over a collection in Serra do Capivari, Campina Grande do Sul (Paraná), Schwartzburd and Xavier de Lima (2008) increased its distribution to Paraná state. Now we can confirm the reported made by Ponce (1998). *Pseudelphantopus spiralis* is a small ruderal herb, which a population of aproximated five individuals was found in a short stretch of the Spitzkopf's trail. Is quoted by flora of Brazil with distribution in the states of Bahia, São Paulo and Acre. Possibly, as it is similar with ruderal species *Elephantopus mollis*, is poorly sampled.

The 22 exotic species in PNSI, four ferns (*Deparia petersenii* (Kunze) M. Kato, *Macrothelypteris torresiana* (Gaudich.) Ching, *Nephrolepis pectinata* (Willd.) Schott. and *Thelypteris dentata* (Forssk.) E.P. St. John, which have already been registered by Gasper and Sevegnani (2010) and 17 angiosperms: *Thunbergia alata* Bojer ex Sims, *Centella asiatica* (L.) Urb., *Bidens pilosa* L., *Galinsoga parviflora* Cav., *Tithonia diversifolia* (Emsl.) A. Gray, *Youngia japonica* (L.) DC., *Impatiens walleriana* Hook.f., *Cardamine bonariensis* Juss. ex Pers, *Drymaria cordata* (L.) Willd. ex Schult., *Stellaria media* (L.) Vill., *Tradescantia zebrina* Bosse, *Sechium edule* (Jacq.) Sw., *Psidium guajava* L., *Plantago major* L., *Eleusine indica* (L.) Gaertn., *Brugmansia suaveolens* (Humb. & Bompl. ex Willd.) Bercht. & J. Presl, *Pilea microphylla* (L.) Liebm. and *Hedichyum coronarium* J.Koenig (Lista de Espécies da Flora do Brasil 2013; Schneider 2007).

Most of these exotic species were found near Spitzkopf, where in the past, some areas were used for agriculture and cattle. Likely, intense visits in the other areas studied

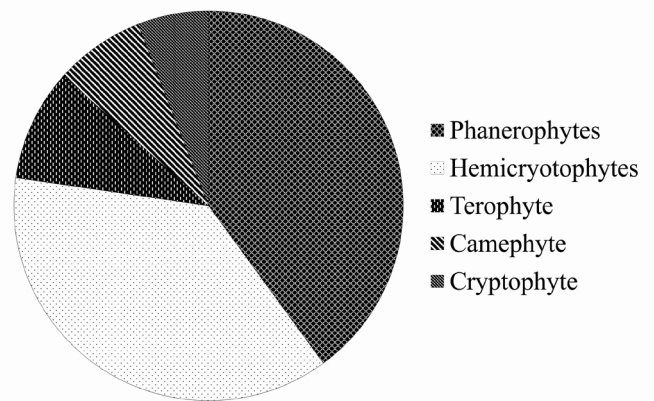


FIGURE 4. Distribution of the number of species in five forms sampled in the Parque Nacional da Serra do Itajaí, Itajaí Valley, Santa Catarina, Brazil.

may explain the fact, since many exotic species are closely related to human presence, current or past (Wright 2005). In the tracks margins we found some important invasive species such as *Impatiens walleriana* and *Hedichyum coronarium* with dense populations close to watercourse.

Five species in the PNSI are threatened, that is why we should consider important the conservation of this area. Two of these were already known by previous collections for PNSI, especially xaxim-bugio (*Dicksonia sellowiana* Hook.), as quoted by Gasper and Sevegnani (2010), classified as Critically Endangered (CR) in SC state and in Brazil as Vulnerable (VU), especially due to commercial exploitation (Windisch 2002). *Heliconia farinosa* Raddi (VU) is treated as threatened on the national list of IBAMA (2008), but apparently it is a common species in PNSI, often found in lowland areas, next to watercourses. *Microlepia speluncae* (L.T. Moore) was considered probably extinct (EX) in the state list of endangered species, but we found a small population in RPPN Bugarkopf. *Piper ulei* C. DC. (VU) was also found in a location close to a watercourse in Morro do Sapo, where there were some individuals, and finally, *Vanilla dietschiana* (Edwal) Garay. (VU) was found only once, an individual with several vegetative seedlings, from which a sample was collected in RPPN Bugarkopf.

According to the samples curve, the number of species for PNSI is not stabilized, since it remained tilted, showing that the Parque Nacional da Serra do Itajaí is a extremely rich area, and 1,086 vascular plant species does not express its real richness. PNSI represents 0.6% of the state territory, yet its richness corresponds to nearly 22.6% of the total species described in Santa Catarina. Thus, we confirm the need for more research in the field in order to try to unravel the true biodiversity that this area hosts. The presence of three species categorized as threatened, and two new records for the state, besides a new species reinforces the importance of this area for the conservation of Atlantic Subtropical Rainforest remnants. On the other hand, the presence of exotic species points out this area vulnerability, especially in areas of strong human influence.

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TABLE 1. Species list of Parque Nacional da Serra do Itajaí. FV: Life form, CA: camephytes, CR: criptophytes, H: hemicriptophytes, F: phanerophytes, T: therophytes and voucher Herbário FURB (Collectors: LAF: L.A. Funez, RR: R. Reitz, TJC: T.J. Cadorin, DBF: D.B. Falkenberg, AR: A. Reis, CRG: C.R. Grippa, ALG: A.L. de Gasper, MV: M. Verdi, RMK: R.M. Klein, ASS: A. Stival-Santos, AS: A. Salino, OSR: O.S. Ribas, AK: A. Korte, EC: E. Caglioni, NLS: N.L. de Souza, SD: S. Dreveck, JPM: J.P. Maçaneiro, MS: M. Sobral, MLS: M.L. Souza, LS: L. Sevegnani, DRL: D.R. da Luz, EK: E. Kiehn, FB: F.Bosio, AD: A. Domingos, RRP: R.R. Passold, LMC: L.M. Ceolin, FS: F. Steinbach, LBS: L.B. Smith.). The numbers represent the number of genera and species per family.

*exotic species, **threatened in SC, ***threatened in Brazil.

FAMILIES/GENUS/SPECIES	FV	VOUCHER
Ferns & lycophytes		
Anemiaceae 1/3		
<i>Anemia phyllitidis</i> (L.) Sw.	H	LAF 1032
<i>Anemia raddiana</i> Link	H	ALG 546
<i>Anemia tomentosa</i> (Savigny) Sw.	H	LAF 1566
Aspleniaceae 2/10		
<i>Asplenium abscissum</i> Willd.	H	ALG 2487
<i>Asplenium brasiliense</i> Raddi	H	LAF 964
<i>Asplenium cirrhatum</i> Rich. ex Willd.	H	ALG 868
<i>Asplenium clausenii</i> Hieron.	H	ALG 549
<i>Asplenium inaequilaterale</i> Willd.	H	LAF 1940
<i>Asplenium kunzeanum</i> Klotzsch ex Rosenst.	H	LAF 1151
<i>Asplenium martianum</i> C. Chr.	H	LAF 1072
<i>Asplenium pseudonitidum</i> Raddi	H	ALG 813
<i>Asplenium uniseriale</i> Raddi	H	LS s/n

FAMILIES/GENUS/SPECIES	FV	VOUCHER
<i>Hymenasplenium triquetrum</i> (N. Murak. & R.C. Moran) L. Regalado & Prada	H	LAF 1716
Athyridaceae 2/10		
<i>Deparia peterseni</i> (Kunze) M.Kato*	H	LAF 1164
<i>Diplazium ambiguum</i> Raddi	H	LAF 1938
<i>Diplazium asplenioides</i> (Kunze) C. Presl	H	LAF 1714
<i>Diplazium cristatum</i> (Desr.) Alston	H	LAF 889
<i>Diplazium leptocarpon</i> Fée	H	ALG 971
<i>Diplazium lindbergii</i> (Mett.) Christ	H	AS 14798
<i>Diplazium plantaginifolium</i> (L.) Urb.	H	LAF 945
<i>Diplazium riedelianum</i> (Bong. ex Kuhn) Kuhn ex C. Chr.	H	LAF 1906
<i>Diplazium rostratum</i> Fée	H	LAF 1625
<i>Diplazium turgidum</i> Rosenst.	H	LAF 2043
Blechnaceae 2/11		
<i>Blechnum acutum</i> (Desv.) Mett.	H	LAF 950

TABLE 1. Continued.

FAMILIES/GENUS/SPECIES	FV	VOUCHER	FAMILIES/GENUS/SPECIES	FV	VOUCHER
<i>Blechnum austrobrasiliense</i> de la Sota	H	LAF 1808	Hymenophyllaceae 3/6		
<i>Blechnum brasiliense</i> Desv.	CA	LAF 922	<i>Abrodictyum rigidum</i> (Sw.) Ebihara and Dubuisson	H	LAF 1949
<i>Blechnum cordatum</i> (Desv.) Hieron.	CA	LAF 1098	<i>Trichomanes cristatum</i> Kaulf.	H	ALG 2456
<i>Blechnum divergens</i> (Kunze) Mett.	CA	LAF 1000	<i>Trichomanes elegans</i> Rich.	H	LAF 1524
<i>Blechnum occidentale</i> L.	H	LAF 1806	<i>Trichomanes pilosum</i> Raddi	H	LAF 1516
<i>Blechnum polypodioides</i> Raddi	H	LAF 871	<i>Vandenboschia radicans</i> (Sw.) Copel.	H	LAF 879
<i>Blechnum sampaioanum</i> Brade	H	ALG 578	<i>Vandenboschia rupestris</i> (Raddi) Ebihara & K. Iwats.	H	ALG 2479
<i>Blechnum schomburgkii</i> (Klotzsch) C. Chr.	CA	AK 3479	Lindsaeaceae 1/5		
<i>Blechnum unilaterale</i> Sw.	H	DBF 6190	<i>Lindsaea arcuata</i> Kunze	H	ALG 964
<i>Salpichlaena volubilis</i> (Kaulf.) Hook.	H	LAF 962	<i>Lindsaea bifida</i> (Kaulf.) Mett. ex Kuhn	H	ALG 650
Cyatheaceae 1/6			<i>Lindsaea lancea</i> (L.) Bedd.	H	LAF 873
<i>Cyathea atrovirens</i> (Langsd. & Fisch.) Domi	F	LAF 1904	<i>Lindsaea ovoidea</i> Fée	H	LAF 944
<i>Cyathea corcovadensis</i> (Raddi) Domin	F	LAF 1962	<i>Lindsaea quadrangularis</i> Raddi	H	LAF 1246
<i>Cyathea delgadii</i> Sternb.	F	RR 2262	Lomoriopsidaceae 2/2		
<i>Cyathea hirsuta</i> C. Presl	F	LAF 1096	<i>Lomariopsis marginata</i> (Schrad.) Kuhn	H	ALG 665
<i>Cyathea phalerata</i> Mart.	F	LAF 2044	<i>Nephrolepis pectinata</i> (Willd.) Schott*	H	ALG 558
<i>Cyathea uleana</i> (Samp.) Lehnert	F	EC 112	Lycopodiaceae 5/6		
Dennstaedtiaceae 6/8			<i>Diphasiastrum thyoides</i> (Humb. & Bonpl. ex Willd.) Holub	H	LAF 1529
<i>Blotiella lindeniana</i> (Hook.) R.M. Tryon	H	RR 3456	<i>Palhinhaea camporum</i> (B. Øllg. & P.G. Windisch) Holub	H	LAF 1008
<i>Dennstaedtia cicutaria</i> (Sw.) T. Moore	H	ALG 589	<i>Palhinhaea cernua</i> (L.) Franco & Vasc.	H	LAF 1031
<i>Dennstaedtia dissecta</i> (Sw.) T. Moore	H	LAF 1622	<i>Phlegmariurus reflexus</i> (Lam.) B. Øllg.	CA	ALG 975
<i>Dennstaedtia obtusifolia</i> (Willd.) T. Moore	H	ALG 590	<i>Pseudolycopodiella caroliniana</i> (L.) Holub	H	ALG 670
<i>Histiopteris incisa</i> (Thunb.) J. Sm.	H	LAF 1068	<i>Lycopodium clavatum</i> L.	H	LAF 1225
<i>Hypolepis acantha</i> Schwartsb.	H	LAF 1857	Lygodiaceae 1/1		
<i>Microlepia speluncae</i> (L.) T. Moore**	H	LAF 959	<i>Lygodium volubile</i> Sw.	H	LAF 1533
<i>Pteridium arachnoideum</i> (Kaulf.) Maxon	H	LAF 1576	Marattiaceae 3/5		
Dryopteridaceae 11/19			<i>Danaea geniculata</i> Raddi	CA	ALG 678
<i>Ctenitis anniesii</i> (Rosenst.) Copel.	H	LAF 1189	<i>Danaea moritziana</i> C. Presl	CA	LAF 938
<i>Ctenitis laetevirens</i> Salino & Morais	H	LAF 1701	<i>Danaea nodosa</i> (L.) Sm.	CA	LAF 1726
<i>Ctenitis pedicellata</i> (H. Christ) Copel.	H	LAF 1165	<i>Eupodium kaulfussii</i> (J. Sm.) Hook.	CA	LAF 1608
<i>Didymochlaena truncatula</i> (Sw.) J.Sm.	H	LAF 941	<i>Marattia cicutifolia</i> Kaulf.	CA	LAF 2055
<i>Elaphoglossum lingua</i> (C. Presl) Brack.	H	LAF 1565	Osmundaceae 2/2		
<i>Elaphoglossum vagans</i> (Mett.) Hieron.	H	LAF 1249	<i>Osmunda regalis</i> L.	H	ALG 821
<i>Lastreopsis amplissima</i> (C. Presl) Tindale	H	LAF 1250	<i>Osmundastrum cinnamomeum</i> (L.) C. Presl	H	ALG 2470
<i>Lomagramma guianensis</i> (Aubl.) Ching	H	ALG 869	Polypodiaceae 5/12		
<i>Megalastrum abundans</i> (Rosenst.) A.R. Sm. & R.C. Moran	CA	ALG 2496	<i>Campyloneurum acrocarpon</i> Fée	H	LAF 1907
<i>Megalastrum connexum</i> (Kaulf.) A.R. Sm. & R.C. Moran	CA	LAF 1076	<i>Campyloneurum minus</i> Fée	H	LAF 957
<i>Megalastrum oreocharis</i> Salino & Ponce	CA	LAF 1717	<i>Campyloneurum nitidum</i> (Kaulf.) C. Presl	H	LS s/n
<i>Mickelia scandens</i> (Raddi) R.C. Moran et al.	H	NLS 4	<i>Niphidium crassifolium</i> (L.) Lellinger	H	ALG 579
<i>Olfersia cervina</i> (L.) Kunze	H	ALG 853	<i>Pecluma chnoophora</i> Salino & Costa Assis	H	ALG 722
<i>Polybotrya cylindrica</i> Kaulf.	H	LAF 958	<i>Pecluma recurvata</i> (Kaulf.) M.G. Price	H	LAF 1075
<i>Polystichum montevidense</i> (Spreng.) Rosenst.	H	ALG 2472	<i>Pleopeltis hirsutissima</i> (Raddi) de la Sota	H	LAF 2069
<i>Rumohra adiantiformis</i> (G.Forst.) Ching	H	LAF 1607	<i>Pleopeltis lepidopteris</i> de la Sota	H	LS s/n
<i>Stigmatopteris brevinervis</i> (Fée) R.C. Moran	H	LAF 1942	<i>Serpocaulon catharinae</i> (Langsd. & Fisch.) A.R. Sm.	H	LAF 946
<i>Stigmatopteris caudata</i> (Raddi) C. Chr.	H	LAF 1142	<i>Serpocaulon fraxinifolium</i> (Jacq.) A.R. Sm.	H	LAF 2018
<i>Stigmatopteris heterocarpa</i> (Fée) Rosenst.	H	LAF 939	<i>Serpocaulon latipes</i> (Langsd. & L.Fisch.) A.R. Sm.	H	ALG 732
Dicksoniaceae 2/2			<i>Serpocaulon vacillans</i> (Link) A.R. Sm.	H	ALG 733
<i>Dicksonia sellowiana</i> Hook.***	F	ALG 593	Pteridaceae 6/12		
<i>Lophosoria quadripinnata</i> (J.F. Gmel.) C. Chr.	H	LAF 1006	<i>Adiantopsis chlorophylla</i> (Sw.) Fée	H	ALG 2443
Gleicheniaceae 3/7			<i>Adiantum pentadactylon</i> Langsd. & Fisch.	H	LAF 1730
<i>Dicranopteris flexuosa</i> (Schrad.) Underw.	H	LAF 1144	<i>Adiantum raddianum</i> C. Presl	H	LAF 604
<i>Dicranopteris nervosa</i> (Kaulf.) Maxon	H	LAF 2052	<i>Doryopteris collina</i> (Raddi) J. Sm.	H	ALG 737
<i>Gleichenella pectinata</i> (Willd.) Ching	H	LAF 1307	<i>Doryopteris crenulans</i> (Fée) H. Christ	H	ALG 2492
<i>Sticherus bifidus</i> (Willd.) Ching	H	LAF 1001	<i>Jamesonia myriophylla</i> (Sw.) Christenh.	H	ALG 738
<i>Sticherus lanuginosus</i> (Fée) Nakai	H	ALG 626	<i>Pityrogramma calomelanos</i> (L.) Link	H	LAF 1563
<i>Sticherus nigropaleaceus</i> (Sturm) J. Prado	H	LAF 2046	<i>Pteris altissima</i> Poir.	H	LAF 1725
<i>Sticherus squamosus</i> (Fée) J. Gonzáles	H	LAF 1223	<i>Pteris decurrens</i> C. Presl	H	LAF 1515
			<i>Pteris lechleri</i> Mett.	H	ALG 742

TABLE 1. Continued.

FAMILIES/GENUS/SPECIES	FV	VOUCHER	FAMILIES/GENUS/SPECIES	FV	VOUCHER
<i>Pteris podophylla</i> Sw.	H	LAF 1911	Apocynaceae 3/5		
<i>Pteris splendens</i> Kaulf.	H	ALG 743	<i>Forsteronia leptocarpa</i> (Hook. & Arn.) A. DC.	F	TJC 761
Saccolmataceae 1/2			<i>Mandevilla atrovioleacea</i> (Stadelm.) Woodson	F	MS s/n
<i>Saccoloma inaequale</i> (Kunze) Mett.	H	LAF 970	<i>Mandevilla immaculata</i> Woodson	F	AR 842
<i>Saccoloma elegans</i> Kaulf.	H	LAF 952	<i>Mandevilla urophylla</i> (Hook.) Woodson	F	LAF 1531
Schizaeaceae 1/1			<i>Oxypetalum pedicellatum</i> Decne.	F	DBF 4832
<i>Schizaea elegans</i> (Vahl) Sw.	H	LAF 1706	Aquifoliaceae 1/3		
Salviniaceae 1/1			<i>Ilex dumosa</i> Reissek	F	CRG 596
<i>Salvinia minima</i> Baker	H	LS s/n	<i>Ilex microdonta</i> Reissek	F	MS s/n
Selaginellaceae 1/5			<i>Ilex theezans</i> Mart.	F	LAF 1611
<i>Selaginella contigua</i> Baker	H	LAF 1508	Araceae 3/6		
<i>Selaginella decomposita</i> Spring	H	LAF 1019	<i>Anthurium acutum</i> N.E. Br.	CA	LAF 1245
<i>Selaginella flexuosa</i> Spring	H	LAF 1512	<i>Anthurium pentaphyllum</i> (Aubl.) G. Don	F	LAF 936
<i>Selaginella muscosa</i> Spring	H	LAF 1509	<i>Asterostigma tweedianum</i> Schott	CR	LAF 893
<i>Selaginella sulcata</i> (Desv. ex Poir.) Spring ex Mart.	H	LAF 1511	<i>Philodendron appendiculatum</i> Nadruszand Mayo	H	LAF 1220
Tectariaceae 1/4			<i>Philodendron propinquum</i> Schott	H	TJC 3049
<i>Tectaria buchtienii</i> (Rosenst.) Maxon	H	LAF 1078	<i>Philodendron roseopetiolatum</i> Nadrusz & Mayo	H	ALG 2466
<i>Tectaria incisa</i> Cav.	H	LAF 1684	Araliaceae 3/4		
<i>Tectaria pilosa</i> (Fée) R.C. Moran	H	LAF 884	<i>Dendropanax australis</i> Fiaschi & Jung-Mend.	F	LAF 1720
<i>Tectaria vivipara</i> Jermy & T.G. Walker	H	LAF 1718	<i>Hydrocotyle leucocephala</i> Cham. & Schltdl.	H	LAF 1073
Thelypteridaceae 2/16			<i>Hydrocotyle pusilla</i> A. Rich.	H	LAF 1514
<i>Macrothelypteris torresiana</i> (Gaudich.) Ching*	H	LAF 994	<i>Schefflera angustissima</i> (Marchal) Frodin	F	MV 3607
<i>Thelypteris amambayensis</i> Ponce	H	LAF 1498	Arecaceae 2/3		
<i>Thelypteris conspersa</i> (Schrad.) A.R. Sm.	H	LAF 1811	<i>Bactris setosa</i> Mart.	F	LAF 1936
<i>Thelypteris decurtata</i> (Kunze) de la Sota	H	LAF 1814	<i>Geonoma pohliana</i> Mart.	F	LAF 1860
<i>Thelypteris dentata</i> (Forssk.) E.P. St. John*	H	LAF 998	<i>Geonoma schottiana</i> Mart.	F	LAF 965
<i>Thelypteris glaziovii</i> (Christ) C.F. Reed	H	LAF 1066	Asteraceae 35/62		
<i>Thelypteris gymnosora</i> Ponce	H	LAF 1177	<i>Achyrocline satureioides</i> (Lam.) DC.	T	LAF 1887
<i>Thelypteris longifolia</i> (Desv.) R.M. Tryon	H	LAF 1724	<i>Adenostemma brasiliense</i> (Pers.) Cass.	CA	LAF 1574
<i>Thelypteris opposita</i> (Vahl) Ching	H	LAF 1519	<i>Ageratum conyzoides</i> (L.) L.	T	LAF 920
<i>Thelypteris pachyrhachis</i> (Kunze ex Mett.) Ching	H	LAF 1735	<i>Baccharis anomala</i> DC.	T	LAF 1029
<i>Thelypteris ptarmica</i> (Kunze) C.F. Reed	H	ALG 961	<i>Baccharis conyzoides</i> (Less.) DC.	T	LAF 1172
<i>Thelypteris raddii</i> Ponce	H	ALG 955	<i>Baccharis crispa</i> Spreng.	CA	LAF 1082
<i>Thelypteris recumbens</i> (Rosenst.) C.F. Reed	H	LAF 1793	<i>Baccharis lateralis</i> Baker	F	LAF 1443
<i>Thelypteris regnelliana</i> (C. Chr.) Ponce	H	LAF 1030	<i>Baccharis malmei</i> Joch. Müll.	F	LAF 2037
<i>Thelypteris retusa</i> C.F. Reed	H	LAF 1017	<i>Baccharis microdonta</i> DC.	F	LAF 1879
<i>Thelypteris vivipara</i> (Raddi) C.F. Reed	H	LAF 887	<i>Baccharis montana</i> DC.	F	DBF 3912
Gymnosperms			<i>Baccharis oblongifolia</i> (Ruiz & Pav.) Pers.	F	LAF 2051
Podocarpaceae 1/1			<i>Baccharis oxyodonta</i> DC.	F	LAF 1922
<i>Podocarpus sellowii</i> Klotzsch ex Endl.	F	MS s/n	<i>Baccharis semiserrata</i> DC.	F	LS s/n
Angiosperms			<i>Baccharis trimera</i> (Less.) DC.	F	LAF s/n
Acanthaceae 7/9			<i>Baccharis urvilleana</i> Brongn.	F	DBF 3880
<i>Aphelandra chamissoniana</i> Nees	F	LAF 929	<i>Baccharis vulneraria</i> Baker	T	LAF 1222
<i>Aphelandra liboniana</i> Linden ex Hook. f.	F	LAF 1070	<i>Bidens pilosa</i> L.*	T	LAF 1889
<i>Hygrophila costata</i> Nees	T	LAF 1491	<i>Calyptocarpus bistratus</i> (DC.) H. Rob.	T	LAF 1782
<i>Justicia carnea</i> Lindl.	F	LAF 917	<i>Chaptalia nutans</i> (L.) Polák	CA	LAF 935
<i>Mendoncia puberula</i> Mart.	F	LAF 2065	<i>Chevreulia acuminata</i> Less.	H	LAF 1881
<i>Mendoncia velloziana</i> Mart.	F	LAF 932	<i>Chromolaena laevigata</i> (Lam.) R.M. King & H. Rob.	F	LAF 1947
<i>Ruellia brevifolia</i> (Pohl) C. Ezcurra	F	LAF 1847	<i>Conyza bonariensis</i> (L.) Cronquist	T	DRL s/n
<i>Staurogyne eustachya</i> Lindau	CA	LAF 1148	<i>Conyza primulifolia</i> (Lam.) Cuatrec. & Lourteig	T	LAF 1864
<i>Thunbergia alata</i> Bojer ex Sims*	F	LAF 1788	<i>Critoniopsis quinqueflora</i> (Less.) H. Rob.	F	EK s/n
Amaranthaceae 4/5			<i>Cyrtocymura scorpioides</i> (Lam.) H. Rob.	F	LAF 1093
<i>Alternanthera philoxeroides</i> (Mart.) Griseb.	H	LAF 1493	<i>Eclipta prostrata</i> (L.) L.	T	LAF 1809
<i>Alternanthera tenella</i> Colla	H	LAF 1758	<i>Elephantopus mollis</i> Kunth	CA	LAF 1686
<i>Celosia grandifolia</i> Moq.	CA	LAF 910	<i>Erechtites hieracifolius</i> (L.) Raf. ex DC.	T	LAF 1168
<i>Chamissoa altissima</i> (Jacq.) Kunth	F	LAF 1613	<i>Erechtites valerianifolius</i> (Link ex Spreng.) DC.	T	LAF 921
<i>Hebanthe pulverulenta</i> Mart.	F	RR 9695	<i>Galinsoga parviflora</i> Cav.*	T	LAF 1759
Apiaceae 1/1			<i>Gamochaeta coarctata</i> (Willd.) Kerguelen	T	LS s/n
<i>Centella asiatica</i> (L.) Urb.*	H	LAF 1071	<i>Gamochaeta simplicicaulis</i> (Willd. ex Spreng.) Cabrera	T	LAF 1047

TABLE 1. Continued.

FAMILIES/GENUS/SPECIES	FV	VOUCHER	FAMILIES/GENUS/SPECIES	FV	VOUCHER
<i>Heterocondylus alatus</i> (Vell.) R.M. King & H. Rob.	F	LS s/n	Cleomaceae 1/1		
<i>Jaegeria hirta</i> (Lag.) Less.	T	LAF 992	<i>Cleome parviflora</i> Kunth	T	LAF 1239
<i>Leptostelma maximum</i> D. Don	T	LAF 1558	Caprifoliaceae 1/1		
<i>Mikania buddleiaefolia</i> DC.	F	RR 3804	<i>Valeriana scandens</i> L.	F	LAF 1015
<i>Mikania glomerata</i> Spreng.	F	RR 8966	Caryophyllaceae 2/2		
<i>Mikania hoffmanniana</i> Dusén ex Malme	F	RR 9218	<i>Drymaria cordata</i> (L.) Willd. ex Schult.*	T	LAF 2032
<i>Mikania involucrata</i> Hook. & Arn.	F	RR 3915	<i>Stellaria media</i> (L.) Vill.*	T	LAF 2027
<i>Mikania lanuginosa</i> DC.	F	LS s/n	Celastraceae 1/2		
<i>Mikania lindbergii</i> Baker	F	RR 9140	<i>Maytenus boaria</i> Molina	F	s/coletor
<i>Mikania rufescens</i> Sch. Bip. ex Baker	F	RR 9627	<i>Maytenus evonymoides</i> Reissek	F	AK 6141
<i>Mikania sericea</i> Hook. & Arn.	F	FB s/n	Clethraceae 1/1		
<i>Mikania smaragdina</i> Dusén ex Malme	F	RMK 2436	<i>Clethra scabra</i> Pers.	F	LAF 1530
<i>Pentacalia desiderabilis</i> (Velloso) Cuatrec.	F	ALG 538	Clusiaceae 1/1		
<i>Piptocarpha axillaris</i> (Less.) Baker	F	AD s/n	<i>Clusia criuva</i> Cambess.	F	LAF 1543
<i>Piptocarpha oblonga</i> (Gardner) Baker	F	LAF 1033	Commelinaceae 4/7		
<i>Piptocarpha quadrangularis</i> (Vell.) Baker	F	LAF 1186	<i>Commelina diffusa</i> Burm.f.	H	LAF 1849
<i>Piptocarpha regnellii</i> (Sch. Bip.) Cabrera	F	RRP s/n	<i>Commelina obliqua</i> Vahl	H	LAF 1227
<i>Pluchea sagittalis</i> Less.	T	LAF 1898	<i>Dichorisandra paranaensis</i> D. Maia et al.	H	LAF 1523
<i>Praxelis pauciflora</i> (Kunth) R.M. King & H. Rob.	T	LAF 1513	<i>Tradescantia fluminensis</i> Vell.	H	LAF 1285
<i>Pseudelephantopus spiralis</i> Cronquist	T	LAF 1804	<i>Tradescantia zanonii</i> (L.) Sw.	H	LAF 1680
<i>Pterocaulon alopecuroides</i> (Lam.) DC.	T	LAF 1917	<i>Tradescantia zebrina</i> Bosse*	H	LAF 2061
<i>Senecio brasiliensis</i> (Spreng.) Less.	T	ALG 2464	<i>Tripogandra diuretica</i> (Mart.) Handlos	H	LAF 1238
<i>Solidago chilensis</i> Meyen	T	LAF 1888	Convolvulaceae 1/1		
<i>Steyermarkina pyrifolia</i> (DC.) R.M. King & H. Rob.	T	RR 8964	<i>Merremia dissecta</i> (Jacq.) Hallier f.	F	LAF 1819
<i>Symphyopappus itatiayensis</i> (Hieron.) R.M. King & H. Rob.	T	MS s/n	Costaceae 1/1		
<i>Tithonia diversifolia</i> (Hemsl.) A. Gray*	F	LAF 1205	<i>Costus scaber</i> Ruizand Pav.	CR	LAF 1232
<i>Trixis lessingii</i> DC.	T	ASS 1350	Cucurbitaceae 3/3		
<i>Vernonanthura montevidensis</i> (Spreng.) H. Rob.	T	LAF 1821	<i>Cayaponia pilosa</i> (Vell.) Cogn.	H	TJC 725
<i>Vernonanthura tweediana</i> (Baker) H. Rob.	T	DRL s/n	<i>Sechium edule</i> (Jacq.) Sw.*	H	LAF 1792
<i>Youngia japonica</i> (L.) DC.*	CA	LAF 1555	<i>Wilbrandia ebracteata</i> Cogn.	H	LAF 1085
Balsaminaceae 1/1			Cunoniaceae 2/2		
<i>Impatiens walleriana</i> Hook.f.*	CA	LAF 1752	<i>Lamanonia ternata</i> Vell.	H	CRG 592
Begoniaceae 1/9			<i>Weinmannia discolor</i> Gardner	H	RMK 2373
<i>Begonia angulata</i> Vell.	CA	LAF 1745	Cyclanthaceae 1/1		
<i>Begonia capanemae</i> Brade	CA	LAF 1704	<i>Asplundia polymera</i> (Hand.-Mazz.) Harling	H	LAF 1605
<i>Begonia convolvulacea</i> (Klotzsch) A. DC.	H	LAF 961	Cyperaceae 10/29		
<i>Begonia fischeri</i> Schrank	CA	LAF 1226	<i>Beccerelia cymosa</i> Brongn.	CR	LAF 927
<i>Begonia fruticosa</i> (Klotzsch) A. DC.	H	LAF 875	<i>Carex brasiliensis</i> A. St.-Hil.	CR	ALG 2463
<i>Begonia hammoniae</i> Irmsch.	F	LAF 2038	<i>Carex seticulmis</i> Boeckeler	CR	LAF 1023
<i>Begonia hispida</i> Schott ex A. DC.	H	RR s/n	<i>Cyperus andreas</i> Maury	CR	LAF 1162
<i>Begonia radicans</i> Vell.	H	LAF 1063	<i>Cyperus chalaranthus</i> J. Presl & C. Presl	CR	LAF 1010
<i>Begonia semperflorens</i> Link & Otto	CA	LAF 1041	<i>Cyperus esculentus</i> L.	CR	LAF 1559
Bignoniaceae 2/2			<i>Cyperus haspan</i> L.	CR	LAF 1918
<i>Fridericia chica</i> (Bonpl.) L.G. Lohmann	F	DBF 3918	<i>Cyperus hermaphroditus</i> (Jacq.) Standl.	CR	LAF 1560
<i>Tanaecium pyramidatum</i> (Rich.) L.G. Lohmann	F	LAF 1237	<i>Cyperus luzulae</i> (L.) Retz.	CR	LAF 1568
Brassicaceae 1/1			<i>Cyperus virens</i> Michx.	CR	LAF 997
<i>Cardamine bonariensis</i> Juss. ex Pers.*	T	LAF 2073	<i>Eleocharis debilis</i> Kunth	H	LAF 1614
Bromeliaceae 2/5			<i>Eleocharis maculosa</i> (Vahl) Roem. & Schult.	H	LAF 1873
<i>Nidularium innocentii</i> Lem.	H	LAF 1482	<i>Eleocharis minima</i> Kunth	H	LAF 1149
<i>Vriesea carinata</i> Wawra	H	LAF 928	<i>Eleocharis sellowiana</i> Kunth	H	LAF 1874
<i>Vriesea incurvata</i> Gaudich.	H	LAF 1217	<i>Fimbristylis dichotoma</i> (L.) Vahl	CR	LAF 1789
<i>Vriesea erythrodactylon</i> (E.Morren) E. Morren ex Mez	H	LAF 1734	<i>Kyllinga odorata</i> Vahl	CR	LAF 1206
<i>Vriesea rodigasiana</i> E.Morren	H	LAF 1481	<i>Kyllinga pumila</i> Michx.	CR	LAF 1554
Campanulaceae 2/2			<i>Pleurostachys foliosa</i> Kunth	H	LAF 1084
<i>Lobelia xalapensis</i> Kunth	T	LAF 1025	<i>Pleurostachys gaudichaudii</i> Brongn.	H	LAF 925
<i>Siphocampylus convolvulaceus</i> (Cham.) G. Don	F	LBS 6276	<i>Pleurostachys stricta</i> Kunth	H	LAF 1013
Cannaceae 1/1			<i>Pleurostachys urvillei</i> Brongn.	H	LAF 967
<i>Canna indica</i> L.	CR	LAF 1751	<i>Pycnus lanceolatus</i> (Poir.) C.B. Clarke	CR	LAF 1484
			<i>Pycnus polystachyos</i> (Rottb.) P. Beauv.	CR	LAF 267
			<i>Rhynchospora nervosa</i> (Vahl) Boeckeler	CR	LAF 1483

TABLE 1. Continued.

FAMILIES/GENUS/SPECIES	FV	VOUCHER	FAMILIES/GENUS/SPECIES	FV	VOUCHER
<i>Rhynchospora</i> sp. nov.	CR	LAF 1798	Linderniaceae 2/3		
<i>Scleria distans</i> Poir.	H	LAF 1539	<i>Lindernia diffusa</i> (L.) Wettst.	T	LAF 1526
<i>Scleria latifolia</i> Sw.	H	LAF 911	<i>Lindernia rotundifolia</i> (L.) Alston	T	LAF 1883
<i>Scleria panicoides</i> Kunth	H	LAF 914	<i>Micranthemum umbrosum</i> (Walter ex J.F. Gmel.)	H	LAF 1882
<i>Scleria secans</i> (L.) Urb.	H	LAF 1086	Loganiaceae 1/2		
Ericaceae 2/3			<i>Spigelia pusilla</i> Mart.	CA	LAF 1018
<i>Agarista eucalyptoides</i> (Cham. & Schltdl.) G.Don	F	LS s/n	<i>Spigelia tetraptera</i> Taub.	F	LAF 1210
<i>Agarista niederleinii</i> (Sleumer) Judd	F	RMK 2313	Lythraceae 2/4		
<i>Gaylussacia brasiliensis</i> (Spreng.) Meisn.	F	CRG s/n	<i>Cuphea calophylla</i> Cham. & Schltdl.	CA	LAF 1503
Erythroxylaceae 1/2			<i>Cuphea carthagenensis</i> (Jacq.) J.F. Macbr.	CA	LAF 1178
<i>Erythroxylum amplifolium</i> Baill.	F	LS s/n	<i>Cuphea racemosa</i> (L.f.) Spreng.	CA	LAF 995
<i>Erythroxylum vacciniifolium</i> Mart.	F	LS s/n	<i>Heimia apetala</i> (Spreng.) S.A. Graham & Gandhi	F	LAF 1490
Euphorbiaceae 5/5			Malpighiaceae 2/2		
<i>Acalypha gracilis</i> Spreng.	F	LAF 1619	<i>Bunchosia fluminensis</i> Griseb.	F	LAF 930
<i>Actinostemon concolor</i> (Spreng.) Müll. Arg.	F	ALG 2523	<i>Byrsonima ligustrifolia</i> Mart.	F	FST s/n
<i>Aparisthium cordatum</i> (A. Juss.) Baill.	F	LAF 1528	Malvaceae 4/7		
<i>Croton celtidifolius</i> Baill.	F	ASS 1320	<i>Byttneria australis</i> A. St.-Hil.	F	LAF 1732
<i>Sebastiania argutidens</i> Pax & K.Hoffm.	F	LS s/n	<i>Pavonia fruticosa</i> (Mill.) Fawc. & Rendle	F	LMC s/n
Fabaceae 5/7			<i>Pavonia nemoralis</i> A. St.-Hil.	F	LAF 1542
<i>Dahlstedtia pentaphylla</i> (Taub.) Burkart	F	LAF 1505	<i>Sida planicaulis</i> Cav.	CA	LAF 1564
<i>Dalbergia frutescens</i> (Vell.) Britton	F	ASS 1306	<i>Sida rhombifolia</i> L.	CA	LAF 1179
<i>Desmodium adscendens</i> (Sw.) DC.	H	LAF 1902	<i>Triumfetta rhomboidea</i> Jacq.	F	LAF 1848
<i>Desmodium incanum</i> DC.	H	LAF 1174	<i>Triumfetta semitriloba</i> Jacq.	F	LAF 2021
<i>Desmodium subsericum</i> Malme	CA	DBF 3955	Marantaceae 4/6		
<i>Erythrina speciosa</i> Andrews	F	RR8970	<i>Calathea monophylla</i> (Vell.) Körn.	CR	LAF 1231
<i>Inga marginata</i> Kunth	F	LAF 1170	<i>Ctenanthe lanceolata</i> Peterson	CR	LAF 1532
Gentianaceae 1/1			<i>Ctenanthe muellerii</i> Petersen	CR	LAF 1143
<i>Macrocarpaea rubra</i> Malme	T	LAF 1083	<i>Ctenanthe setosa</i> (Roscoe) Eichler	CR	LAF 1596
Gesneriaceae 2/3			<i>Maranta divaricata</i> Roscoe	CR	LAF 1957
<i>Nematanthus australis</i> Chautems	CA	LAF 2033	<i>Stromanthe papillosa</i> Petersen	CR	LAF 1616
<i>Nematanthus fissus</i> (Vell.) L.E. Skog	CA	LAF 2027	Marcgraviaceae 1/1		
<i>Sinningia curtiflora</i> (Malme) Chautems	CR	LAF 1604	<i>Schwartzia brasiliensis</i> (Choisy) Bedell ex Gir.-Cañas	F	LAF 1699
Gratiolaceae 3/3			Melastomataceae 6/49		
<i>Bacopa stricta</i> (Schrud.) Wettst. ex Edwall	T	MLS 821	<i>Bertolonia acuminata</i> Gardner	CA	LAF 1541
<i>Scoparia dulcis</i> L.	T	LAF 1494	<i>Bertolonia mosenii</i> Cogn.	CA	LAF 1687
<i>Stemodia trifoliata</i> (Link) Rchb.	T	LAF 1243	<i>Leandra acutiflora</i> (Naudin) Cogn.	F	LAF 1254
<i>Stemodia verticillata</i> (Mill.) Hassl.	T	LAF 1756	<i>Leandra australis</i> (Cham.) Cogn.	F	ALG 819
Griselinaceae 1/1			<i>Leandra barbinervis</i> (Cham. ex Triana) Cogn.	F	FB s/n
<i>Griselinia ruscifolia</i> (Gay) Ball	F	TJC 2587	<i>Leandra bergiana</i> Cogn.	F	LAF 1781
Heliconiaceae 1/1			<i>Leandra carassana</i> (DC.) Cogn.	F	LAF 1621
<i>Heliconia farinosa</i> Raddi***	CR	LAF 892	<i>Leandra dasytricha</i> (A. Gray) Cogn.	F	LAF 1200
Hypoxidaceae 1/1			<i>Leandra echinata</i> Cogn.	F	LAF 1092
<i>Hypoxis decumbens</i> L.	CR	LAF 1502	<i>Leandra fallax</i> (Cham.) Cogn.	F	LAF 1064
Iridaceae 1/2			<i>Leandra fragilis</i> Cogn.	F	ALG 973
<i>Sisyrinchium palmifolium</i> L.	H	ASS 1352	<i>Leandra glazioviana</i> Cogn.	F	LAF 1050
<i>Sisyrinchium vaginatum</i> Spreng.	H	LAF 1248	<i>Leandra hirtella</i> Cogn.	F	LAF 1214
Juncaceae 1/2			<i>Leandra horrida</i> Cogn.	F	RR 8972
<i>Juncus microcephalus</i> Kunth	H	LAF 1208	<i>Leandra kleinii</i> Brade	F	RR 563
<i>Juncus tenuis</i> Willd.	H	LAF 1233	<i>Leandra laevigata</i> Cogn.	F	LAF 1198
Lamiaceae 5/8			<i>Leandra laxa</i> Cogn.	F	MS s/n
<i>Aegiphila obducta</i> Vell.	F	LAF 2081	<i>Leandra melastomoides</i> Raddi	F	LAF 1624
<i>Hyptis fasciculata</i> Benth.	T	DRL s/n	<i>Leandra planifilamentosa</i> Brade	F	LAF 1587
<i>Hyptis heterodon</i> Epling	T	LAF 1892	<i>Leandra purpureovillosa</i> Hoehne	F	LAF 1215
<i>Hyptis inodora</i> Schrank	T	LAF 1088	<i>Leandra quinqueidentata</i> Cogn.	F	RMK 2374
<i>Hyptis lacustris</i> A. St.-Hil. ex Benth.	T	LAF 1807	<i>Leandra regnellii</i> (Triana) Cogn.	F	LAF 1043
<i>Marsypianthes chamaedrys</i> (Vahl) Kuntze	T	LAF 1242	<i>Leandra reitzii</i> Wurdack	F	MS s/n
<i>Ocimum carnosum</i> (Spreng.) Link & Otto ex Benth.	CA	LAF 1197	<i>Leandra scabra</i> DC.	F	RMK 2362
<i>Peltodon radicans</i> Pohl	H	LAF 1812	<i>Leandra sublanata</i> Cogn.	F	MS 8638
Lauraceae 1/1			<i>Leandra tetraquetra</i> Cogn.	F	LAF 1683
<i>Endlicheria paniculata</i> (Spreng.) J.F. Macbr.	F	LAF 1886			

TABLE 1. Continued.

FAMILIES/GENUS/SPECIES	FV	VOUCHER	FAMILIES/GENUS/SPECIES	FV	VOUCHER
<i>Leandra xanthocoma</i> (Naudin) Cogn.	F	ASS 1334	<i>Habenaria parviflora</i> Lindl.	CR	LAF 1549
<i>Miconia budlejoides</i> Triana	F	AD s/n	<i>Malaxis excavata</i> (Lindl.) Kuntze	H	AK 3353
<i>Miconia chartacea</i> Triana	F	LAF 1693	<i>Microchilus arietinus</i> (Rchb. f. & Warm.) Ormerod	H	LAF 2212
<i>Miconia cubatanensis</i> Hoehne	F	DBF 3836	<i>Microchilus austrobrasiliensis</i> (Porsch) Ormerod	H	LAF 1937
<i>Miconia inconspicua</i> Miq.	F	CRG 619	<i>Prescottia densiflora</i> (Brongn.) Lindl.	H	LAF 934
<i>Miconia lymanii</i> Wurdack	F	RR 8994	<i>Prescottia stachyoides</i> (Sw.) Lindl.	H	LAF 2113
<i>Miconia sellowiana</i> Naudin	F	ALG 2461	<i>Prosthechea bulbosa</i> (Vell.) W.E. Higgins	H	LAF 1592
<i>Miconia tristis</i> Spring	F	SD 1033	<i>Prosthechea vespa</i> (Vell.) W.E. Higgins	H	LAF 1479
<i>Miconia valtheri</i> Naudin	F	LAF 1580	<i>Psilochilus dusenianus</i> Kraenzl. ex Garay & Dunst.	H	TJC 1330
<i>Ossaea amygdaloides</i> Triana	F	LAF 1213	<i>Psilochilus modestus</i> Barb. Rodr.	H	LAF 1677
<i>Ossaea confertiflora</i> (DC.) Triana	F	LAF 1685	<i>Sauroglossum nitidum</i> (Vell.) Schltr.	H	LAF 2149
<i>Ossaea meridionalis</i> D'El Rei Souza	F	LAF 1595	<i>Vanilla dietschiana</i> Edwall**	H	LAF 1707
<i>Ossaea sanguinea</i> Cogn.	F	LAF 1517	Orobanchaceae 1/1		
<i>Pleiochiton blepharodes</i> (DC.) Reginato <i>et al.</i>	CA	LAF 1545	<i>Velloziella westermanni</i> Dusén	F	LAF 2045
<i>Pleiochiton ebracteatum</i> Triana	CA	LAF 1863	Oxalidaceae 1/2		
<i>Tibouchina catharinensis</i> Brade	F	s/coletor	<i>Oxalis hispidula</i> Zucc.	CR	LAF 1007
<i>Tibouchina clinopodifolia</i> (DC.) Cogn.	T	LAF 1065	<i>Oxalis triangularis</i> A. St.-Hil.	CR	LAF 1780
<i>Tibouchina dusenii</i> Cogn.	F	MS s/n	Passifloraceae 1/4		
<i>Tibouchina mutabilis</i> (Vell.) Cogn.	F	LAF 1180	<i>Passiflora capsularis</i> L.	F	LAF 969
<i>Tibouchina pilosa</i> Cogn.	F	LAF 1550	<i>Passiflora haematostigma</i> Mart. ex Mast.	F	DBF 3904
<i>Tibouchina sellowiana</i> Cogn.	F	FST s/n	<i>Passiflora jilekii</i> Wawra	F	LMC s/n
<i>Tibouchina urvilleana</i> (DC.) Cogn.	F	LAF 1548	<i>Passiflora truncata</i> Regel	F	DBF 3807
<i>Tibouchina versicolor</i> Cogn.	F	DBF 3895	Phrymaceae 1/1		
Meliaceae 3/3			<i>Mazus japonicus</i> (Thunb.) Kuntze*	T	LAF 1755
<i>Cabralea canjerana</i> (Vell.) Mart.	F	CRG 572	Phyllanthaceae 1/2		
<i>Guarea macrophylla</i> Vahl	F	LAF 1028	<i>Phyllanthus caroliniensis</i> Walter	T	LAF 1002
<i>Trichilia pallens</i> C. DC.	F	ASS 1335	<i>Phyllanthus lindbergii</i> Müll. Arg.	T	LAF 1091
Monimiaceae 1/2			Phytolaccaceae 1/1		
<i>Mollinedia clavigera</i> Tul.	F	MS s/n	<i>Phytolacca thyrsiflora</i> Fenzl ex J.A. Schmidt	T	LAF 1914
<i>Mollinedia schottiana</i> (Spreng.) Perkins	F	AD s/n	Piperaceae 2/24		
Moraceae 2/2			<i>Peperomia alata</i> Ruiz & Pav.	CA	LAF 1705
<i>Dorstenia carautae</i> C.C. Berg	CA	LAF 923	<i>Peperomia glabella</i> (Sw.) A. Dietr.	H	LAF 1012
<i>Sorocea bonplandii</i> (Baill.) W.C. Burger <i>et al.</i>	F	JPM 31	<i>Peperomia hispidula</i> (Sw.) A. Dietr.	CA	LAF 1026
Myrtaceae 4/7			<i>Peperomia ibiramana</i> Yunck.	H	LAF 916
<i>Eugenia kleinii</i> D. Legrand	F	DBF 4831	<i>Peperomia renifolia</i> Dahlst.	H	LAF 881
<i>Eugenia sclerocalyx</i> D. Legrand	F	RR s/n	<i>Peperomia urocarpa</i> Fisch. & C.A. Mey.	H	LAF 876
<i>Eugenia uniflora</i> L.	F	LAF 1492	<i>Piper alnoides</i> Kunth	F	LAF 1044
<i>Marlieria tomentosa</i> Griseb.	F	TJC 1244	<i>Piper amplum</i> Kunth	F	LAF 1600
<i>Myrceugenia alpigena</i> (DC.) Landrum	F	MS s/n	<i>Piper arboreum</i> Aubl.	F	LAF 1244
<i>Myrceugenia glaucescens</i> (Cambess.) D. Legrand & Kausel	F	ASS 769	<i>Piper caldense</i> C. DC.	F	LAF 1601
<i>Psidium guajava</i> L.*	F	LAF 1496	<i>Piper cernuum</i> Vell.	F	LAF 1912
Nyctaginaceae 2/2			<i>Piper corcovadensis</i> (Miq.) C. DC.	F	AK 3345
<i>Guapira opposita</i> (Vell.) Reitz	F	CRG 566	<i>Piper crassinervium</i> Kunth	F	LAF 2022
<i>Neea pendulina</i> Heimerl	F	LAF 1039	<i>Piper dilatatum</i> Rich.	F	MS s/n
Ochnaceae 2/3			<i>Piper gaudichaudianum</i> Kunth	F	LAF 1741
<i>Ouratea parviflora</i> Engl.	F	LAF 1729	<i>Piper hispidum</i> Sw.	F	LAF 908
<i>Ouratea vaccinioides</i> Engl.	F	LS s/n	<i>Piper malacophyllum</i> (C. Presl) C. DC.	F	LAF 1737
<i>Sauvagesia vellozii</i> (Vell. ex A. St.-Hil.) Sastre	CA	LAF 1544	<i>Piper mollicomum</i> (Kunth) Steud.	F	LAF 1692
Onagraceae 2/2			<i>Piper mosenii</i> C. DC.	F	LAF 907
<i>Fuchsia regia</i> (Vand. ex Vell.) Munz	F	LAF 1062	<i>Piper piritubanum</i> Yunck.	F	ASS 1297
<i>Ludwigia longifolia</i> (DC.) H. Hara	T	DBF 3883	<i>Piper reitzii</i> Yunck.	F	ASS 1336
Orchidaceae 14/19			<i>Piper rivinoides</i> (Kunth) C. DC.	F	LAF 1959
<i>Aspidogyne decora</i> (Rchb.f.) Garay & G.A. Romero	H	LAF 991	<i>Piper ulei</i> C. DC.**	F	LAF 1820
<i>Brachystele camporum</i> (Lindl.) Schltr.	H	DBF 6202	<i>Piper viminifolium</i> Trel.	F	LAF 1801
<i>Cleistes libonii</i> (Rchb. f.) Schltr.	CR	LAF 2062	Plantaginaceae 1/2		
<i>Cleistes revoluta</i> (Barb. Rodr.) Schltr.	CR	RR9619	<i>Plantago major</i> L.*	CA	LAF 1247
<i>Coppensia flexuosa</i> (Lodd.) Campacci	H	LAF 1593	<i>Plantago tomentosa</i> Lam.	CA	LAF 1087
<i>Corymborkis flava</i> (Sw.) Kuntze	H	LAF 1944	Poaceae 14/28		
<i>Epidendrum secundum</i> Jacq.	H	LAF 1594	<i>Andropogon bicornis</i> L.	T	LAF 1698
			<i>Bromus catharticus</i> Vahl	T	RR 455

TABLE 1. Continued.

FAMILIES/GENUS/SPECIES	FV	VOUCHER	FAMILIES/GENUS/SPECIES	FV	VOUCHER
<i>Chusquea bambusoides</i> (Raddi) Hack.	H	RR s/n	<i>Emmeorrhiza umbellata</i> (Spreng.) K. Schum.	F	LAF 1785
<i>Chusquea discolor</i> Hack.	H	RR s/n	<i>Faramaea montevidensis</i> (Cham. & Schltdl.) DC.	F	RR 9527
<i>Chusquea leptophylla</i> Nees	H	RR s/n	<i>Hoffmannia peckii</i> K.Schum.	F	LAF 1703
<i>Chusquea oligophylla</i> Rupr.	H	RR 18104	<i>Margaritopsis astrellantha</i> (Wernham)	F	TJC 1246
<i>Colanthesia intermedia</i> (McClure & L.B.Sm.) McClure	H	s/coletor	L. Andersson		
<i>Eleusine indica</i> (L.) Gaertn.*	H	LAF 1488	<i>Mitracarpus hirtus</i> (L.) DC.	T	LAF 1241
<i>Ichnanthus pallens</i> (Sw.) Munro ex Benth.	H	LAF 1570	<i>Posoqueria latifolia</i> (Rudge) Schult.	F	ALG 435
<i>Merostachys multiramea</i> Hack.	H	TJC 14	<i>Psychotria brachypoda</i> (Müll. Arg.) Britton	F	LAF 1201
<i>Merostachys petiolata</i> Döll	H	RR 18110	<i>Psychotria hastisepala</i> Müll. Arg.	F	AK 3371
<i>Merostachys speciosa</i> Spreng.	H	RR s/n	<i>Psychotria leiocarpa</i> Cham. & Schltdl.	F	LAF 1236
<i>Ocellochloa rudis</i> (Nees) Zuloaga & Morrone	H	RR 9220	<i>Psychotria nemorosa</i> Gardner	F	LAF 1572
<i>Olyra latifolia</i> L.	H	LAF 888	<i>Psychotria nuda</i> (Cham. & Schltdl.) Wawra	F	LAF 885
<i>Panicum polygonatum</i> Schrad.	H	LAF 1817	<i>Psychotria officinalis</i> (Aubl.) Raeusch. ex Sandwith	F	LAF 1690
<i>Panicum schwackeanum</i> Mez	H	LAF 1885	<i>Psychotria stachyoides</i> Benth.	F	LAF 1209
<i>Panicum sellowii</i> Nees	H	LAF 1797	<i>Psychotria stenocalyx</i> Müll. Arg.	F	
<i>Paspalum conjugatum</i> P.J. Bergius	H	LAF 1487	<i>Psychotria suterella</i> Müll. Arg.	F	LAF 877
<i>Paspalum corcovadense</i> Raddi	H	LAF 1606	<i>Rudgea jasminoides</i> (Cham.) Müll. Arg.	F	LAF 1234
<i>Paspalum notatum</i> Flügge	H	LAF 1540	<i>Rudgea parquoides</i> (Cham.) Müll. Arg.	F	CRG 553
<i>Paspalum nutans</i> Lam.	H	LS s/n	<i>Sabicea villosa</i> Willd. ex Schult.	F	LAF 2025
<i>Paspalum pauciciliatum</i> (Parodi) Herter	H	LAF 1553			
<i>Paspalum pumilum</i> Nees	H	LAF 1536	Rutaceae 1/1		
<i>Paspalum umbrosum</i> Trin.	H	LAF 1557	<i>Esenbeckia grandiflora</i> Mart.	F	CRG 565
<i>Paspalum urvillei</i> Steud.	H	LAF 1802			
<i>Pharus lappulaceus</i> Aubl.	H	LAF 1850	Sapindaceae 2/4		
<i>Sacciolepis vilvroides</i> (Trin.) Chase	H	LAF 1919	<i>Allophylus petiolulatus</i> Radlk.	F	LAF 1869
<i>Setaria parviflora</i> (Poir.) M. Kerguelen	T	LAF 1203	<i>Paullinia carpopoda</i> Cambess.	F	LAF 1184
			<i>Paullinia elegans</i> Cambess.	F	LAF 1188
Polygalaceae 1/1			<i>Paullinia trigonia</i> Vell.	F	LAF 1870
<i>Polygala paniculata</i> L.	T	LAF 1074			
Polygonaceae 2/2			Scrophuraceae 1/1		
<i>Polygonum acuminatum</i> Kunth	H	LAF 1916	<i>Buddleja stachyoides</i> Cham. & Schltdl.	T	LAF 1046
<i>Ruprechtia laxiflora</i> Meisn.	F	ASS 1289			
Pontederiaceae 2/2			Solanaceae 7/25		
<i>Eichhornia crassipes</i> (Mart.) Solms	CR	LAF 1597	<i>Aureliana fasciculata</i> (Vell.) Sendtn.	F	LAF 2049
<i>Heteranthera reniformis</i> Ruiz & Pav.	H	LAF s/n	<i>Aureliana wettsteiniana</i> (Witasek) Hunz. & Barboza	F	AK 3459
Primulaceae 3/6			<i>Brugmansia suaveolens</i> (Humb. & Bonpl. ex Willd.) Bercht. & J. Presl*	F	LAF 1463
<i>Cybianthus brasiliensis</i> (Mez) G.Agostini	F	LAF 1682	<i>Brunfelsia uniflora</i> (Pohl) D. Don	F	ALG 2458
<i>Myrsine coriacea</i> (Sw.) R. Br. ex Roem. & Schult.	F	LAF 1948	<i>Capsicum recurvatum</i> (Witasek) Hunz	F	LAF 1561
<i>Myrsine gardneriana</i> A. DC.	F	AK 7096	<i>Cestrum bracteatum</i> Link & Otto	F	LAF 1757
<i>Myrsine lineata</i> (Mez) Imkhan.	F	RR559	<i>Physalis pubescens</i> L.	T	LAF 1095
<i>Myrsine loefgrenii</i> (Mez) Imkhan.	F	MS s/n	<i>Solanum americanum</i> Mill.	T	LAF 1146
<i>Stylogyne pauciflora</i> Mez	F	LAF 1537	<i>Solanum didymum</i> Dunal	F	ALG 539
Rosaceae 1/4			<i>Solanum diploconos</i> (Mart.) Bohs	F	MS s/n
<i>Rubus brasiliensis</i> Mart.	F	RR 9200	<i>Solanum flaccidum</i> Vell.	F	DBF 3828
<i>Rubus imperialis</i> Cham. & Schltdl.	F	LAF 1048	<i>Solanum granuloso-leprosum</i> Dunal	F	LMC s/n
<i>Rubus rosifolius</i> Sm. ex Baker	F	LAF 1903	<i>Solanum inodorum</i> Vell.	F	ASS 1314
<i>Rubus urticifolius</i> Poir	F	LAF 1286	<i>Solanum lacerdae</i> Dusén	F	DBF 3857
Rubiaceae 17/30			<i>Solanum mauritianum</i> Scop.	F	ALG 2467
<i>Amaioua guianensis</i> Aubl.	F	FS s/n	<i>Solanum megalochiton</i> Mart.	F	DBF 3930
<i>Amaioua intermedia</i> Mart. ex Schult. & Schult. f.	F	RMK 2422	<i>Solanum melissarum</i> Bohs	F	DBF 3614
<i>Borreria palustris</i> (Cham. & Schltdl.) Bacigalupo & E.L.Cabral	H	LAF 1240	<i>Solanum pinetorum</i> (L.B. Sm. & Downs) Bohs	F	LMC s/n
<i>Chomelia brasiliensis</i> A. Rich.	F	AK 565	<i>Solanum pseudocapsicum</i> L.	F	ASS 1309
<i>Coccocypselum cordifolium</i> Nees & Mart.	H	LAF 918	<i>Solanum rufescens</i> Sendtn.	F	DBF 3833
<i>Coccocypselum geophiloides</i> Wawra	H	LAF 1014	<i>Solanum santaecatharinae</i> Dunal	F	LS s/n
<i>Coccocypselum hasslerianum</i> Chodat	H	LAF 926	<i>Solanum schwackei</i> Glaz.	F	LAF 2020
<i>Coccocypselum lanceolatum</i> (Ruiz & Pav.) Pers.	H	LAF 1027	<i>Solanum stipulatum</i> Vell.	F	AK 3351
<i>Cordia concolor</i> (Cham.) Kuntze	F	AK 3475	<i>Solanum variabile</i> Mart.	F	ASS 1316
<i>Coussarea contracta</i> (Walp.) Benth. & Hook. f. ex Müll. Arg.	F	MS s/n	<i>Solanum wacketii</i> Witasek	F	ASS 778
<i>Diodia saponariifolia</i> (Cham. & Schltdl.) K. Schum.	H	LAF 1552			
			Symplocaceae 1/2		
			<i>Symplocos glandulosomarginata</i> Hoehne	F	MS s/n
			<i>Symplocos tenuifolia</i> Brand	F	RR 4130
			Theaceae 1/1		
			<i>Laplacea fruticosa</i> (Schrad.) Kobuski	F	MS s/n

FAMILIES/GENUS/SPECIES	FV	VOUCHER
Thymelaeaceae 1/1		
<i>Daphnopsis fasciculata</i> (Meisn.) Nevling	F	ASS 1342
Thyphaceae 1/1		
<i>Typha domingensis</i> Pers.	CR	LAF 1618
Urticaceae 4/10		
<i>Boehmeria caudata</i> Sw.	F	LAF 999
<i>Boehmeria cylindrica</i> (L.) Sw.	F	LAF 1877
<i>Phenax sonneratii</i> (Poir.) Wedd.	F	LAF 1497
<i>Phenax uliginosus</i> Wedd.	F	LAF 1171
<i>Pilea microphylla</i> (L.) Liebm.*	CA	LAF 1723
<i>Pilea pubescens</i> Liebm.	CA	LAF 1575
<i>Pilea rhizobola</i> Miq.	F	LAF 1016

FAMILIES/GENUS/SPECIES	FV	VOUCHER
<i>Urera baccifera</i> (L.) Gaudich.	F	LAF 1872
<i>Urera caracasana</i> (Jacq.) Gaudich. ex Griseb.	F	LAF 1823
<i>Urera nitida</i> Brack	F	LAF 1796
Vitaceae 1/1		
<i>Cissus paullinifolia</i> Vell.	F	RR 551
Winteraceae 1/2		
<i>Drimys angustifolia</i> Miers	F	LAF 2070
<i>Drimys brasiliensis</i> Miers	F	ALG 2532
Zingiberaceae 1/2		
<i>Hedychium coronarium</i> J. König*	CR	LAF 1617
<i>Renealmia petasites</i> Gagnep.	CR	LAF 1230