

# Checklist of the flora of the Restingas of Sergipe State, Northeast Brazil

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**ABSTRACT:** Using herbarium records, this study was held to evaluate the floristic composition of the restingas of Sergipe State. The results show considerable plant diversity, encompassing, as a whole, 831 species, belonging to 439 genera and 124 families. The most representative families were Fabaceae (99 species), Cyperaceae (61), and Myrtaceae (57). The most diverse genera were *Myrcia* DC. (15 species), *Rhynchospora* Vahl (14), *Chamaecrista* Moench (12), *Eugenia* L. (11) and *Cyperus* L. (10). Herbs comprise the predominant habit (325 species, 39%).

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## INTRODUCTION

Coastal ecosystems are dynamic environments subject to natural processes, such as deposition of marine sediment and wind action (Holzer *et al.* 2004), being among the most devastated by human occupation and by the extraction of resources, which are frequent in the Brazilian ecosystems (Sacramento *et al.* 2007).

In the sandy coastal plains, the *restinga* vegetation consists of a mosaic of plant communities subject to marine and fluvial-marine influence, though physiognomically distinct (CONAMA Resolution No. 07/1996). It is a very peculiar ecosystem, diverse in structure and flora composition (Assis *et al.* 2004). The physiognomies found may vary from psammophyllous-reptant herbaceous communities, in the region close to the seashore, to coastal forests, formed by shrub and tree species, in more distant areas of the ocean influence (Oliveira-Filho and Carvalho 1993).

The *restinga* vegetation plays a primary role in the consolidation of the substrate, and provides food resources for resident and migratory wildlife (Scherer *et al.* 2005). Despite its importance, its composition is not well known, requiring further studies (Pereira *et al.* 2001), particularly in Northeastern Brazil (Sacramento *et al.* 2007). In this region, the *restingas* comprise a strip of sandy substrate, that goes from Bahia state to the mouth of the Parnaíba River, between the states of Maranhão and Piauí (Almeida Jr. *et al.* 2007).

Despite the high diversity of species in the *restingas* of the Northeast (Almeida Jr. *et al.* 2007), there are still few studies done in this region, in comparison with the South and Southeast regions of the country, maybe because of its larger seashore extension. Published studies found in the Northeast Region include Freire (1990), Cabral-Freire and Monteiro (1993), Oliveira-Filho and Carvalho (1993), Matias and Nunes (2001), and, more recently, Sacramento *et al.* (2007). Besides being scanty, most of the works

comprise geographically restricted surveys (Almeida Jr. *et al.* 2009), with the exception of the review of two floristic surveys and herbarium collection, on the *restingas* of Ceará state, by Santos-Filho *et al.* (2011).

It is necessary to continue studies on these formations in order to improve our knowledge about the Brazilian *restingas* (Almeida Jr. *et al.* 2009). This is essential to support land use and occupation of the coastal region (Queiroz 2007), which is particularly important to protect the few areas along the Brazilian coast that are still occupied by remnants of native vegetation.

In Sergipe, Northeast's smallest state, published works in areas of *restinga* are still scarce, featured only by Santos *et al.* (2011). However, some studies, monographs and dissertations have already been done, as the floristic survey accomplished by Nascimento, Jr. (2011) in Santo Amaro das Brotas, on the north coast of the state.

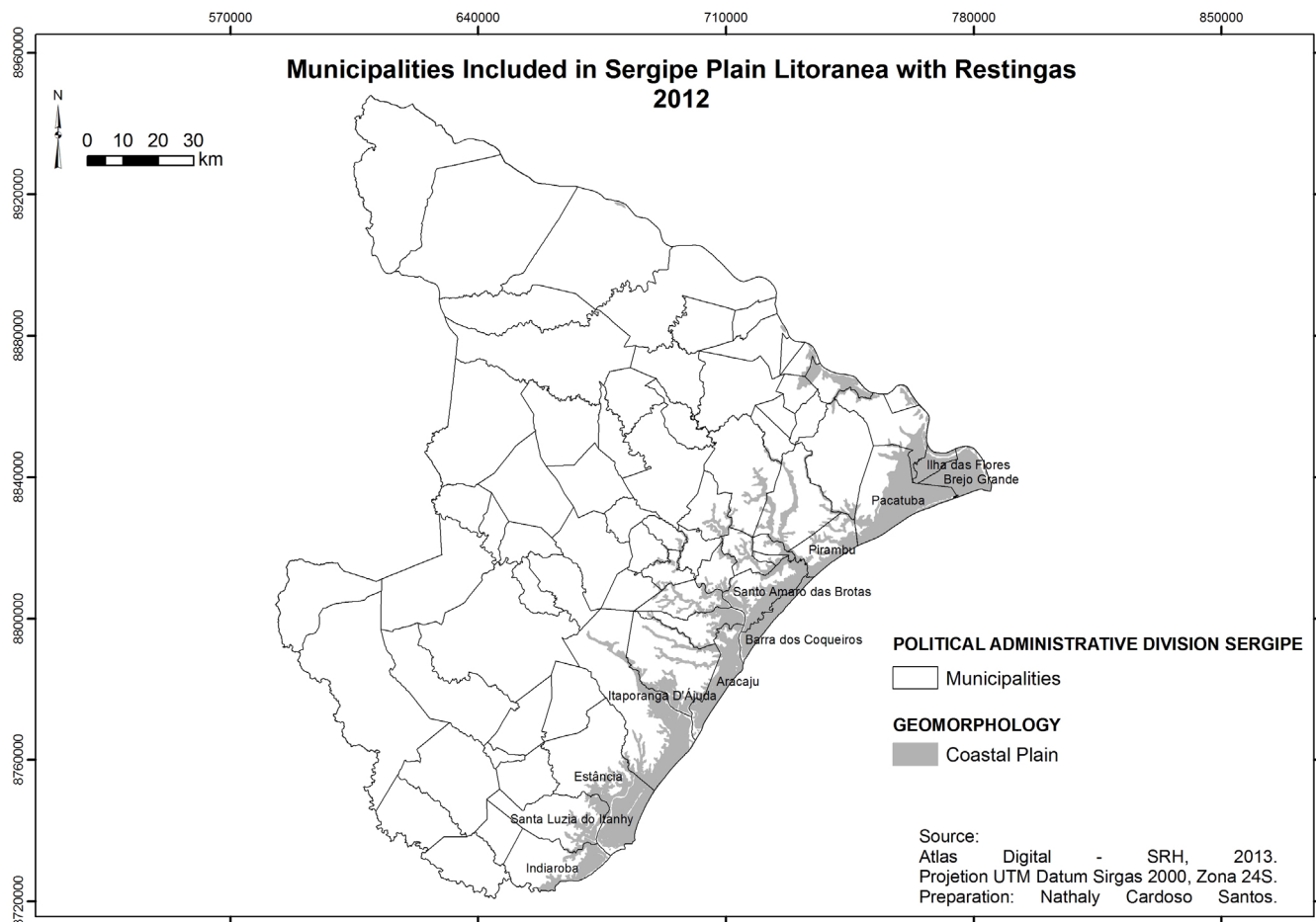
Although there are protected areas in the region (one Biological Reserve, on the northern coast of the state, and one Environmental Protection Area, on the southern coast), the increased occupation of Sergipe's coast is raising concerns about the threats to the conservation of these environments and their diversity.

This work presents a list of species of Angiosperms collected in the *restingas* of Sergipe state, in an effort to fill the research gap of the *restingas* in this area.

## MATERIALS AND METHODS

### Study site

Situated in the Northeast Region, the state of Sergipe has an area of 21,918,354 km<sup>2</sup>, with a population of 2,068,017 inhabitants (IBGE 2010). Located between the coordinates 9°30' and 11°30' S, and 36°20' and 38°00' W, it is limited in the north by the state of Alagoas, in the east, by the Atlantic Ocean, and in the south and west, by the state of Bahia (Figure 1).



**FIGURE 1.** Municipalities in Sergipe located on the coastal plains, presenting restingas areas with floristic inventories.

Despite being the smallest state of Brazil, its coastline extension is 168 km, with 1,942,867 km<sup>2</sup> in coastal plains (SEMARH/SRH 2011), extending from the mouth of the São Francisco River to the mouth of the Real River (UFS/SEPLAN 1979). This area, formed by quaternary sediments, mostly from the Holocene, with predominance of marine dystrophic quartz sands and podzolic soils (Santos and Andrade 1992), in which are inserted the tracks of beaches, beach ridges, and dune formations (RADAMBRASIL 1983), is covered by *restinga* vegetation (SEMARH/SRH 2011).

In the coastal region of the state, there are two distinct climatic zones, differing in humidity and temperature levels (SEPLAG 2011). The East Coast (Megathermal Wet), encompassing seven municipalities (Aracaju, Barra dos Coqueiros, Brejo Grande, Estância, Indiaroba, Itaporanga D'ajuda, Santa Luzia do Itanhy e Santo Amaro das Brotas), has more than 1,600 mm of rainfall annually. The *Agreste* (Megathermal Sub-Humid to Dry), covering four municipalities (Pirambu, Pacatuba, Brejo Grande e Ilha das Flores), has an annual rainfall between 1,000 to 1,200 mm. The climate on the coast is humid, with average temperatures between 24°C and 26°C (UFS/SEPLAN 1979).

#### Data sampling and analysis

The data compilation for the Angiosperm flora of the *restingas* of Sergipe state was carried out from October 2011 to July 2013, by consulting the platform of the Reference Center on Environmental Information at the

*Specieslink* website (CRIA 2012). At first, all registers collected in the coastal plain of the state were considered, comprising the municipalities of Aracaju, Barra dos Coqueiros, Brejo Grande, Estância, Ilha das Flores, Indiaroba, Itaporanga D'Ajuda, Pacatuba, Pirambu, Santa Luzia do Itanhy, and Santo Amaro das Brotas. However, for inclusion in the flora of *restingas* of Sergipe state database, all vouchers should clearly indicate where they were collected, if in areas of *restinga*, sand dunes or along the coastal plain. All vascular plant species were listed, excluding exotic species.

Subsequently, the vouchers were checked at the Herbarium of the Federal University of Sergipe (ASE), to confirm or complement its taxonomic determination. The species classification follows the APG II System (2003), and the habit was obtained from the data of the exsiccate labels, following the definitions of Gonçalves and Lorenzi (2007).

Among all the exsiccates found, a voucher was selected for each species, preferably the ones identified by a specialist, and deposited at the collection of the Herbarium ASE (exsiccates registered in other Herbaria were also part of the original database). Species names have been revised and updated according to the database of the Botanical Garden of Rio de Janeiro (Lista de Espécies da Flora do Brasil 2013).

#### RESULTS

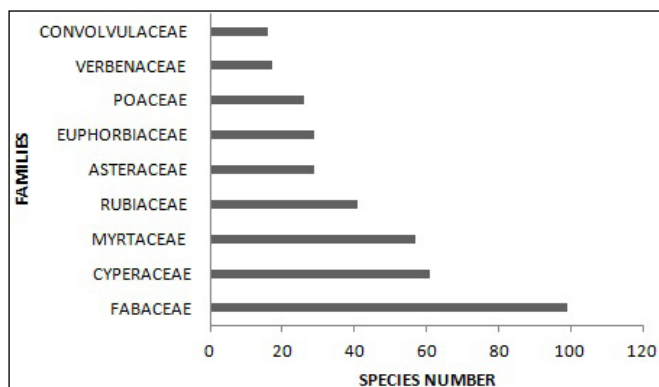
Altogether, 831 species in 439 genera and 124 families

were recorded in *restingas* of Sergipe (Table 1). The families with the largest number of species (Figure 2) were Fabaceae (99 species), Cyperaceae (61 species), and Myrtaceae (57 species).

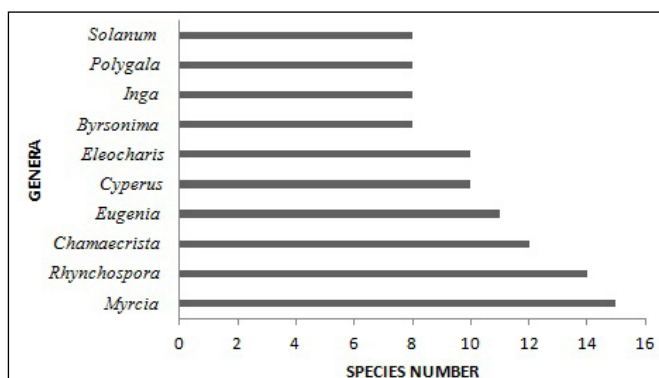
The nine most important families (with 16 or more species), account for 45% of the total species and 7% of the total families. On the other hand, 38 families presented only one species each, corresponding to 5% of the total species and 31% of the families.

The genera with the highest number of species (Figure 3) were *Myrcia* DC. (15 species), *Rhynchospora* Vahl (14 species), *Chamaecrista* Moench (12 species), *Eugenia* L. (11 species), and *Cyperus* L. (10 species), representing 7% of the total species.

Some specimens could not have their taxonomic determination confirmed to the species level due to the low quality of the vouchers. This conservative approach was adopted even for specimens belonging to genera with only one species referred to Brazil, as was the case of *Psilotum* sp. (Costa 435, ASE), *Langsdorffia* sp. (Landim 733, ASE), and *Mammea* sp. (Landim 1618, ASE), wherein each one of those genera has only one species recorded from Brazil, respectively, *P. nudum* (L.) P. Beauv. (Sylvestre 2014), *L. hypogaea* Mart. (Cardoso 2014) and *M. americana* L. (Bittrich 2014). For the same reason, *Lithrea* sp. (Carregosa-Silva 73, ASE) was also maintained indetermined to the species level, although only two species of this genus are found in Brazil, with different spatial ranges, being *L. molleoides* (Vell.) Engl. registered to south, southeast, midwest and northeast (only for the state of Bahia), and *L. brasiliensis* Marchand occurring in the south and southeast of Brazil (Silva-Luz and Pirani 2014).



**FIGURE 2.** Angiosperm plant families with higher species richness in the restingas of Sergipe.



**FIGURE 3.** Vascular plant genera with higher species richness in the restingas of Sergipe.

The herbaceous species were predominant among the flora of the *restingas* of Sergipe (325 species; 39% of the total), followed by shrubs (265 species; 32%), trees (155 species; 19%), and climbers (70 species; 8%). Epiphytes and parasites, considered together, are not very representative habits, portrayed by 16 species (2%).

## DISCUSSION

No endemic species were found in the *restingas* of Sergipe. In fact, there have not been established yet a set of unique species that could characterize the flora of the *restingas* (Almeida Jr. et al. 2007), possibly due to its wide latitudinal gradient and to the influence by the neighboring ecosystems, as *Mata Atlântica*, *Tabuleiro* and *Caatinga* (Freire 1990).

Fabaceae was also found as the family with more number of species in the *restingas* of the states of Ceará (Santos-Filho et al. 2011), Maranhão (Cabral-Freire and Monteiro 1993), Rio Grande do Norte (Almeida Jr. and Zickel 2009; Freire 1990) and Piauí (Santos-Filho unpublished data), being the second most important family in inventories in Pernambuco (Silva et al. 2008) and Bahia (Queiroz 2007) states and third most important family in inventories in Ceará (Matias and Nunes 2001) and Pernambuco states (Sacramento et al. 2007).

Therefore, these results reinforce the importance of this family in the dystrophic soils of *restingas*, which must be, at least partially, due to its symbiosis with nitrogen-fixing bacteria (Faria et al. 1994; Sprent 1994).

The second most abundant family in the *restingas* of Sergipe, Cyperaceae, was also the second most important family in floristic inventories in the *restingas* of the states of Ceará (Santos-Filho et al. 2011; Matias and Nunes 2001), Pernambuco (Almeida Jr. et al. 2007; Almeida Jr. et al. 2009), and Rio Grande do Norte (Almeida Jr. and Zickel 2009).

The importance of Cyperaceae in the flora of the *restingas* may be, in addition to its high efficiency in habitats with poor soils and high light incidence (Bove et al. 2003), influenced by the arrival of ruderal species of this family in areas at an early or advanced stage of degradation. Two of the three species of Cyperaceae (*Cyperus sphacelatus* Rottb. and *Cyperus* sp.), classified as ruderal species, found in a floristic survey in a 6km stretch, in Boa Viagem beach, Pernambuco state (Leite and Andrade 2004), were not found in a survey conducted previously in the same location, in 1951 (Andrade-Lima 1951 *apud* Leite and Andrade 2004). The presence of these opportunistic species in coastal ecosystems is not unusual, and 34 ruderal species, from a total of 47 have been found by Leite and Andrade (2004).

Although Myrtaceae is the third most important family in the *restingas* of Sergipe, it was found to be the largest family in number of species in studies in Pernambuco (Sacramento et al. 2007; Silva et al. 2008) and Bahia (Queiroz 2007), the second largest in Rio Grande do Norte (Freire 1990), and the third in Paraíba (Almeida Jr. et al. 2009). This is a very important family in Neotropical forests, being the sixth most important family in the Atlantic domain (Stehmann et al. 2009) and the first in number of species in lowland rain forests (Oliveira-Filho and Fontes 2000).

**TABLE 1.** List of the 831 species of plants collected in restinga areas of Sergipe.

FAMILIES/SPECIES	VOUCHER	HABIT
<b>Pteridophyta</b>		
<b>BLECHNACEAE</b>		
<i>Blechnum serrulatum</i> Rich.	Fonseca S/N (UFP)	Herb
<b>DENNSTAEDTIACEAE</b>		
<i>Pteridium caudatum</i> (L.) Maxon	Nascimento-Júnior 1083 (ASE)	Herb
<b>LOMARIOPSIDACEAE</b>		
<i>Nephrolepis</i> sp.	Costa 436 (ASE)	Herb
<b>LYGODIACEAE</b>		
<i>Lygodium venustum</i> Sw.	Farias 202 (ASE)	Shrub
<i>Lygodium volubile</i> Sw.	Nascimento-Júnior 1128 (ASE)	Shrub
<b>POLYPODIACEAE</b>		
<i>Microgramma vacciniifolia</i> (Langsd. & Fisch.) Copel.	Viana 927 (ASE)	Epiphyte
<i>Serpocaulon triseriale</i> (Sw.) A.R.Sm.	Nascimento-Júnior 1016 (ASE)	Epiphyte
<b>PSILOACEAE</b>		
<i>Psilotum</i> sp.	Costa 435 (ASE)	Herb
<b>PTERIDACEAE</b>		
<i>Acrostichum aureum</i> L.	Costa 257 (ASE)	Herb
<b>Angiosperms</b>		
<b>ACANTHACEAE</b>		
<i>Aphelandra nitida</i> Nees & Mart.	Sant'Ana 478 (CEPEC)	Shrub
<i>Ruellia geminiflora</i> Kunth	Oliveira 360 (ASE)	Herb
<b>ADOXACEAE</b>		
<i>Sambucus australis</i> Cham. & Schltdl.	Oliveira, D.M. 91 (ASE)	Tree
<b>AIZOACEAE</b>		
<i>Sesuvium portulacastrum</i> (L.) L.	Fonseca 768 (ASE)	Herb
<b>ALISMATACEAE</b>		
<i>Echinodorus tenellus</i> (Mart.) Buchenau	Ramos 35 (ASE)	Herb
<i>Sagittaria guayanensis</i> Kunth	Ribeiro 260 (UEC)	Herb
<i>Sagittaria lancifolia</i> L.	Carneiro 732 (ASE)	Herb
<b>AMARANTHACEAE</b>		
<i>Alternanthera brasiliana</i> (L.) Kuntze	Oliveira, D.M. 174 (ASE)	Herb
<i>Alternanthera littoralis</i> P.Beauv. var. <i>maritima</i>	Pergentino 2 (ASE)	Herb
<i>Blutaparon portulacoides</i> (A.St.-Hil.) Mears	Nascimento-Júnior 1082 (ASE)	Herb
<i>Chenopodium ambrosioides</i> L.	Oliveira, D.M. 92 (ASE)	Herb
<i>Froelichia</i> sp.	Mattos-Silva 3013 (ASE)	Shrub
<i>Gomphrena duriuscula</i> Moq.	Silva 3013 (CEPEC)	Herb
<i>Pfaffia glomerata</i> (Spreng.) Pedersen	Oliveira, D.M. 199 (ASE)	Herb
<b>ANACARDIACEAE</b>		
<i>Anacardium occidentale</i> L.	Landim 3 (ASE)	Tree
<i>Lithrea</i> sp.	Carregosa-Silva 73 (ASE)	Tree
<i>Schinus terebinthifolius</i> Raddi	Landim 1482 (ASE)	Tree
<i>Spondias purpurea</i> L.	Oliveira, D.M. 149 (ASE)	Tree
<i>Tapirira guianensis</i> Aubl	Farney 2907 (ASE)	Tree
<i>Thyrsodium spruceanum</i> Benth.	Fonseca R. 245 (ASE)	Tree
<b>ANNONACEAE</b>		
<i>Annona cacans</i> Warm.	Galvão 25002 (ASE)	Tree
<i>Annona coriacea</i> Mart.	Oliveira, D.M. 82 (ASE)	Tree
<i>Annona muricata</i> L.	Santos 1 (ASE)	Tree
<i>Annona pickelii</i> (Diels) H.Rainer	Amorim 3459 (CEPEC)	Shrub
<i>Annona salzmännii</i> A. DC.	Carvalho 4340 (CEPEC)	Shrub
<i>Duguetia gardneriana</i> Mart.	Silva 2996 (CEPEC)	Herb
<i>Duguetia moricandiana</i> Mart.	Fonseca 131 (RB)	Shrub
<i>Guatteria pogonopus</i> Mart.	Fonseca 7 (ASE)	Tree
<i>Xylopia brasiliensis</i> Spreng.	Oliveira 400 (ASE)	Tree
<i>Xylopia laevigata</i> (Mart.) R.E.Fr.	Landim 415 (ASE)	Tree
<i>Xylopia nitida</i> Dunal	Fonseca 428 (ASE)	Shrub
<b>APOCYNACEAE</b>		
<i>Allamanda</i> sp.	Landim 424 (ASE)	Tree
<i>Blepharodon costae</i> Fontella & Morillo	Carneiro, E. 382 (IPA)	Climber



TABLE 1. CONTINUED.

FAMILIES/SPECIES	VOUCHER	HABIT
<i>Blepharodon pictum</i> (Vahl) W.D. Stevens	Prata 2668 (ASE)	Climber
<i>Ditassa crassifolia</i> Decne.	Landim 423 (ASE)	Tree
<i>Forsteronia montana</i> Müll. Arg.	Sant'Ana 473 (ASE)	Shrub
<i>Hancornia speciosa</i> Gomes	Nascimento-Júnior 728 (ASE)	Climber
<i>Himatanthus bracteatus</i> (A.DC.) Woodson	Sant'Ana 377 (CEPEC)	Climber
<i>Himatanthus obovatus</i> (Müll. Arg.) Woodson	Farias 69 (ASE)	Tree
<i>Mandevilla hirsuta</i> (A.Rich.) K.Schum	Prata 2680 (ASE)	Climber
<i>Mandevilla moricandiana</i> (A.DC.) Woodson	Viana160 (ASE)	Climber
<i>Mandevilla scabra</i> (Hoffmanns. ex Roem. & Schult.) K. Schum.	Souza 39 (ASE)	Climber
<i>Mandevilla tenuifolia</i> (J.C.Mikan) Woodson	Freire 20 (ASE)	Climber
<i>Oxypetalum banksii</i> R.Br. ex Schult.	Carregosa-Silva 72 (ASE)	Climber
<i>Temnadenia odorifera</i> (Vell.) J.F.Morales	Sant'Ana 475 (CEPEC)	Tree
ARACEAE		
<i>Anthurium affine</i> Schott	Landim 387 (ASE)	Herb
<i>Anthurium bellum</i> Schott	Sant'Ana 477 (CEPEC)	Herb
<i>Anthurium longipes</i> N.E. Br.	Gonçalves 126 (UB)	Herb
<i>Anthurium maricense</i> Nadrusz & Mayo	Farney 2818 (RB)	Herb
<i>Anthurium raimundii</i> Mayo et al.	Prata 3117 (ASE)	Herb
<i>Anthurium solitarium</i> Schott	Gonçalves 127 (UB)	Herb
<i>Lemna aequinoctialis</i> Welw.	Nascimento-Júnior 909 (ASE)	Herb
<i>Philodendron acutatum</i> Schott	Landim 202 (ASE)	Herb
<i>Philodendron imbe</i> Schott ex Kunth.	Oliveira, E. V. S. 38 (ASE)	Epiphyte
<i>Syngonium vellozianum</i> Schott	Prata 3039 (ASE)	Climber
ARALIACEAE		
<i>Hydrocotyle bonariensis</i> Lam.	Oliveira, E.V.S. 1 (ASE)	Herb
<i>Schefflera morototoni</i> (Aubl.) Maguire et al.	Sant'Ana 387 (CEPEC)	Herb
ARECACEAE		
<i>Allagoptera arenaria</i> (Gomes) Kuntze	Silva 3023 (CEPEC)	Shrub
<i>Allagoptera brevicalyx</i> Moraes	Amorim 1529 (CEPEC)	Shrub
<i>Allagoptera campestris</i> (Mart.) Kuntze	Landim 1522 (ASE)	Shrub
<i>Astrocaryum</i> sp.	Vasconcelos 30 (ASE)	Tree
<i>Attalea barreirensis</i> Glassman	Amorim 1531 (CEPEC)	Shrub
<i>Bactris glassmanii</i> Med.-Costa & Noblick ex A.J.Hend	Nascimento-Júnior 1068 (ASE)	Shrub
<i>Syagrus coronata</i> (Mart.) Becc.	Prata 2961 (ASE)	Shrub
<i>Syagrus romanzoffiana</i> (Cham.) Glassman	Fonseca S/N (UFP)	Shrub
<i>Syagrus schizophylla</i> (Mart.) Glassman	Silva 3043 (CEPEC)	Shrub
ARISTOLOCHIACEAE		
<i>Aristolochia birostris</i> Duch.	Farney 2718 (ASE)	Climbers
ASTERACEAE		
<i>Acanthospermum hispidum</i> DC.	Oliveira, D.M. 98 (ASE)	Herb
<i>Achyrocline</i> sp.	Campos 138 (ASE)	Herb
<i>Ageratum conyzoides</i> L.	Prata 2649 (ASE)	Herb
<i>Albertinia brasiliensis</i> Spreng.	Carneiro 722 (ASE)	Shrub
<i>Aspilia</i> sp.	Prata 2756 (ASE)	Herb
<i>Bidens ferulifolia</i> (Jacq.) Sweet	Oliveira, D.M. 139 (ASE)	Herb
<i>Calea candolleana</i> (Gardner) Baker	Jardim 329 (CEPEC)	Climber
<i>Conocliniopsis prasiifolia</i> (DC.) R.M.King & H.Rob.	Ramos 11 (ASE)	Shrub
<i>Conyza canadensis</i> (L.) Cronquist	Oliveira, D.M. 58 (ASE)	Herb
<i>Eclipta prostrata</i> (L.) L.	Nascimento-Júnior 1133 (ASE)	Herb
<i>Elephantopus hirtiflorus</i> DC.	Sant'Ana 399 (CEPEC)	Herb
<i>Eremanthus capitatus</i> (Spreng.) MacLeish	Jardim 330 (CEPEC)	Shrub
<i>Eupatorium prasiifolium</i> var. <i>glanduliferum</i> R.E.Fr.	Farney 2629 (ASE)	Herb
<i>Koanophyllon baccharifolium</i> (Gardner) R.M.King & H.Rob.	Oliveira 495 (ASE)	Shrub
<i>Lepidaploa arenaria</i> (Mart. ex DC.) H.Rob.	Silva 2987 (CEPEC)	Herb
<i>Lepidaploa chalybaea</i> (Mart. ex DC.) H.Rob.	Oliveira 492 (ASE)	Herb
<i>Lepidaploa mucronifolia</i> (DC.) H.Rob.	Landim 1513 (ASE)	Herb
<i>Lessingianthus glabratus</i> (Less.) H.Rob.	Campos 238 (ASE)	Shrub
<i>Litothamnus nitidus</i> (DC.) W.C. Holmes	Prata 2803 (ASE)	Tree
<i>Lourteigiaballotifolia</i> (Kunth) R.M.King & H.Rob.	Landim 181 (ASE)	Shrub

TABLE 1. CONTINUED.

FAMILIES/SPECIES	VOUCHER	HABIT
<i>Mikania lucida</i> S.F.Blake	Landim 397 (ASE)	Herb
<i>Praxelis kleinoides</i> (Kunth) Sch. Bip.	Carvalho S/N (CEPEC)	Shrub
<i>Rolandra fruticosa</i> (L.) Kuntze	Viana 646 (ASE)	Herb
<i>Sphagneticola trilobata</i> (L.) Pruski	Nascimento-Júnior 835 (ASE)	Herb
<i>Stilpnopappus</i> sp.	Costa 273 (ASE)	Herb
<i>Tilesia baccata</i> (L.f.) Pruski	Fonseca R. 251 (ASE)	Shrub
<i>Trichogonia</i> sp.	Souza 40 (ASE)	Shrub
<i>Tridax procumbens</i> L.	Nascimento-Júnior 871 (ASE)	Climber
<i>Vernonia</i> sp.	Landim 1487 (ASE)	Herb
BALANOPHORACEAE		
<i>Langsdorffia</i> sp.	Landim 733 (ASE)	Parasite
BIGNONIACEAE		
<i>Adenocalymma</i> sp.	Santana 909 (ASE)	Climber
<i>Anemopaegma album</i> Mart. ex DC.	Landim 418 (ASE)	Climber
<i>Bignonia corymbosa</i> (Vent.) L.G.Lohmann	Carneiro 723 (ASE)	Climber
<i>Fridericia conjugata</i> (Vell.) L.G.Lohmann	Nascimento-Júnior 719 (ASE)	Climber
<i>Jacaranda macrantha</i> Cham.	Gomes 266 (HVASF)	Tree
<i>Jacaranda obovata</i> Cham.	Nascimento-Júnior 1034 (ASE)	Shrub
<i>Lundia cordata</i> (Vell.) DC.	Landim 143 (ASE)	Shrub
<i>Tabebuia aurea</i> (Silva Manso) Benth. & Hook.f. ex S.Moore	Jardim 326 (CEPEC)	Tree
BIXACEAE		
<i>Bixa orellana</i> L.	Oliveira, D.M. 220 (ASE)	Tree
<i>Cochlospermum vitifolium</i> (Willd.) Spreng.	Oliveira, D.M. 157 (ASE)	Tree
BONNETIACEAE		
<i>Bonnetia anceps</i> Mart. & Zucc.	Fonseca ASE N. 535 (ASE)	Tree
<i>Bonnetia stricta</i> (Nees) Nees & Mart.	Santos, L.A.S. 623 (ASE)	Shrub
BORAGINACEAE		
<i>Cordia nodosa</i> Lam.	Cruz 86 (ASE)	Shrub
<i>Cordia pilosa</i> M. Stapf & Taroda	Carvalho 4342 (CEPEC)	Tree
<i>Cordia taguhyensis</i> Vell.	Carvalho 4342 (ASE)	Tree
<i>Euploca polyphylla</i> (Lehm.) J.I.M.Melo & Semir	Ramos 20 (ASE)	Herb
<i>Heliotropium indicum</i> L.	Oliveira 373 (ASE)	Herb
<i>Heliotropium polyphyllum</i> Lehm.	Jardim 321 (CEPEC)	Herb
<i>Heliotropium salicoides</i> Cham.	Amorim 1543 (CEPEC)	Herb
<i>Varronia curassavica</i> Jacq.	Nascimento-Júnior 976 (ASE)	Shrub
<i>Varronia globosa</i> Jacq.	Coletor desconhecido 4801 (ASE)	Shrub
<i>Varronia polycephala</i> Lam.	Carneiro 497 (ASE)	Shrub
BROMELIACEAE		
<i>Aechmea aquilega</i> (Salisb.) Griseb.	Landim 199 (ASE)	Herb
<i>Aechmea lingulata</i> (L.) Baker	Martinelli 15345 (ASE)	Herb
<i>Aechmea lingulatoides</i> Leme & H. Luther	Martinelli 1534 (RB)	Herb
<i>Aechmea mertensii</i> (G.Mey.) Schult. & Schult.f.	Souza, G. 365 (CEPEC)	Epiphyte
<i>Aechmea multiflora</i> L.B.Sm.	Martinelli 15344 (ASE)	Shrub
<i>Ananas bracteatus</i> (Lindl.) Schult. & Schult.f.	Campos 211 (ASE)	Herb
<i>Cryptanthus alagoanus</i> Leme & J.A.Siqueira	Siqueira-Filho 2360 (HVASF)	Herb
<i>Cryptanthus pickelii</i> L.B.Sm.	Landim 732 (ASE)	Epiphyte
<i>Cryptanthus sergipensis</i> I.Ramírez	Sant'Ana 388 (CEPEC)	Epiphyte
<i>Hohenbergia catingae</i> Ule	Landim 248 (ASE)	Herb
<i>Hohenbergia ramageana</i> Mez	Landim 249 (TEPB)	Herb
<i>Hohenbergia ridleyi</i> (Baker)	Martinelli 15343 (ASE)	Herb
BURMANNIACEAE		
<i>Burmannia capitata</i> (Walt. Ex J.F.Gmel.) Mart.	Amorim 3468 (CEPEC)	Shrub
BURSERACEAE		
<i>Protium bahianum</i> D. C.Daly	Landim 1123 (ASE)	Shrub
<i>Protium heptaphyllum</i> subsp. <i>heptaphyllum</i> (Aubl.) Marchand	Araújo 15 (ASE)	Tree
<i>Tetragastris occhionii</i> (Rizzini) Daly	Farney 2920 (ASE)	Shrub
CACTACEAE		
<i>Cereus fernambucensis</i> subsp. <i>fernambucensis</i> Lem.	Landim 1147 (ASE)	Herb
<i>Melocactus violaceus</i> Pfeiffer.	Nascimento-Júnior 536 (ASE)	Herb

TABLE 1. CONTINUED.

FAMILIES/SPECIES	VOUCHER	HABIT
<i>Melocactus zehntneri</i> (Britton & Rose) Luetzelb.	Prata 2995 (ASE)	Herb
<i>Opuntia dillenii</i> (Ker Gawl.) Haw.	Conceição 1 (ASE)	Shrub
<i>Pilosocereus catingicola</i> subsp. <i>salvadorensis</i> (Werderm.) Zappi	Menezes148 (ASE)	Shrub
<i>Pilosocereus gounellei</i> (F.A.C. Weber) Byles & G.D. Rowley	Oliveira, E.V.S. 47 (ASE)	Shrub
CALOPHYLLACEAE		
<i>Kielmeyera argentea</i> Choisy	Prata 3023 (ASE)	Shrub
<i>Kielmeyera coriacea</i> Mart.	Silva 2981 (CEPEC)	Tree
<i>Kielmeyera neglecta</i> Saddi	Santana 901 (ASE)	Tree
<i>Kielmeyera rugosa</i> Choisy	Campos 218 (ASE)	Shrub
CANNABACEAE		
<i>Celtis spinosa</i> Spreng.	Prata 2755 (ASE)	Shrub
CAPPARACEAE		
<i>Cynophalla hastata</i> (Jacq.) J.Presl	Landim 427 (HUEFS)	Tree
<i>Cynophalla flexuosa</i> (L.) J.Presl	Nascimento-Júnior 864 (ASE)	Tree
<i>Physostemon rotundifolium</i> Mart. & Zucc.	Santana 87 (ASE)	Herb
<i>Physostemon guianense</i> (Aubl.) Malme	Silva 2980 (CEPEC)	Shrub
CELASTRACEAE		
<i>Maytenus distichophylla</i> Mart. ex Reissek	Landim 417 (ASE)	Shrub
<i>Maytenus obtusifolia</i> Mart.	Landim 735 (ASE)	Shrub
<i>Maytenus opaca</i> Reissek	Campos 130 (ASE)	Shrub
CHRYSOBALANACEAE		
<i>Chrysobalanus icaco</i> L.	Farney 2745 (ASE)	Shrub
<i>Couepia impressa</i> Prance	Fonseca 540 (ASE)	Tree
<i>Couepia racemosa</i> Benth. ex Hook.f.	Ramos 7347 (ASE)	Tree
<i>Hirtella ciliata</i> Mart. & Zucc.	Amorim 1507 (CEPEC)	Tree
<i>Hirtella racemosa</i> Lam.	Fonseca R. 399 (ASE)	Tree
<i>Licania apétala</i> var. <i>apétala</i> (E.Mey.) Fritsch	Farney 2919 (RB)	Shrub
<i>Licania corniculata</i> Prance	Prata 3094 (ASE)	Shrub
<i>Licania littoralis</i> Warm.	Silva 3007 (CEPEC)	Shrub
<i>Parinari littoralis</i> Prance	Amorim 3457 (CEPEC)	Tree
<i>Parinari rodolphii</i> Huber	Prata 2818 (ASE)	Tree
CLUSIACEAE		
<i>Clusia nemorosa</i> G.Mey.	Carneiro 462 (ASE)	Tree
<i>Clusia paralicola</i> G. Mariz	Prata 2993 (ASE)	Tree
<i>Garcinia gardneriana</i> (Planch. & Triana) Zappi	Viana 926 (ASE)	Tree
<i>Mammea</i> sp.	Landim 1618 (ASE)	Shrub
<i>Symphonia globulifera</i> L. f.	Nascimento-Júnior 732 (ASE)	Shrub
COMBRETACEAE		
<i>Conocarpus erectus</i> L.	Oliveira, E.V.S. 4 (ASE)	Tree
<i>Laguncularia racemosa</i> (L.) C.F.Gaertn	Oliveira, E.V.S. 5 (ASE)	Tree
COMMELINACEAE		
<i>Commelina erecta</i> L.	Carregosa-Silva 71 (ASE)	Herb
<i>Dichorisandra</i> sp.	Landim 1470 (ASE)	Herb
<i>Tradescantia</i> sp.	Santana 213 (ASE)	Herb
CONNARACEAE		
<i>Connarus</i> sp.	Amaral 739 (ASE)	Climber
<i>Pseudoconnarus</i> sp.	Melo 16 (ASE)	Shrub
<i>Rourea</i> sp.	Cruz 21 (HUEFS)	Shrub
CONVOLVULACEAE		
<i>Evolvulus phyllanthoides</i> Moric.	Silva 2990 (UFRN)	Shrub
<i>Evolvulus pterocaulon</i> Moric.	Prata 1688 (ASE)	Shrub
<i>Evolvulus thymiflorus</i> Choisy	Santos, L.A.S. 604 (ASE)	Herb
<i>Ipomoea asarifolia</i> (Desr.) Roem. & Schult.	Nascimento-Júnior 980 (ASE)	Herb
<i>Ipomoea batatoides</i> Choisy	Santos, E. 475 (ASE)	Climber
<i>Ipomoea imperati</i> (Vahl) Griseb	Cervi 3626 (UPCB)	Climber
<i>Ipomoea incarnata</i> (Vahl) Choisy	Oliveira 473 (ASE)	Climber
<i>Ipomoea pes-caprae</i> (L.) R.Br	Santos, S.S.C. 4 (ASE)	Herb
<i>Ipomoea sericophylla</i> Meisn.	Oliveira 388 (ASE)	Climber
<i>Ipomoea batatas</i> (L.) Lam.	Oliveira, D.M. 141 (ASE)	Herb

TABLE 1. CONTINUED.

FAMILIES/SPECIES	VOUCHER	HABIT
<i>Jacquemontia bracteosa</i> Meisn.	Miranda 6116 (HST)	Climber
<i>Jacquemontia montana</i> (Mor.) Meisn.	Nascimento-Júnior 1033 (ASE)	Climber
<i>Jacquemontia evolvuloides</i> (Mor.) Meisn.	Farias 143 (ASE)	Herb
<i>Merremia aegyptia</i> (L.) Urb.	Ramos 7344 (ASE)	Herb
<i>Merremia macrocalyx</i> (Ruiz et Pavon) O'Donell.	Santana 103 (ASE)	Climber
<i>Merremia umbellata</i> (L.) Hallier f.	Carneiro 138 (ASE)	Climber
COSTACEAE		
<i>Costus spiralis</i> (Jacq.) Roscoe	Oliveira, D.M. 184 (ASE)	Herb
CUCURBITACEAE		
<i>Cucurbita moschata</i> Duchesne	Carvalho, C.M. 1 (ASE)	Climber
<i>Luffa operculata</i> (L.) Cogn.	Oliveira, D.M. 227 (ASE)	Herb
CYPERACEAE		
<i>Abildgaardia baeothryon</i> A.St.-Hil.	Nascimento-Júnior 1033 (ASE)	Herb
<i>Abildgaardia ovata</i> (Burm.f.) Kral	Carvalho 4316 (CEPEC)	Herb
<i>Bolboschoenus robustus</i> (Pursh) Soják	Soledade 11908 (ASE)	Herb
<i>Bulbostylis capillaris</i> (L.) Kunth ex C.B.Clarke	Viana 522 (ASE)	Herb
<i>Bulbostylis conifera</i> (Kunth) C.B.Clarke	Prata 1690 (ASE)	Herb
<i>Bulbostylis junciformis</i> (Kunth) C.B.Clarke	Alves 2050 (CEPEC)	Herb
<i>Cyperus aggregatus</i> (Willd.) Endl.	Costa, S.M. 166 (ASE)	Herb
<i>Cyperus articulatus</i> L.	Braguini 3 (ASE)	Herb
<i>Cyperus compressus</i> L.	Silva 130 (ASE)	Herb
<i>Cyperus haspan</i> L.	Alves 2057 (CEPEC)	Herb
<i>Cyperus hermaphroditus</i> Jacq. (Standl.)	Santos, L.A.S. 625 (ASE)	Herb
<i>Cyperus laxus</i> Lam.	Prata 2688 (ASE)	Herb
<i>Cyperus ligularis</i> L.	Costa, S.M. 162 (ASE)	Herb
<i>Cyperus maritimus</i> Poir.	Ramos 1 (ASE)	Herb
<i>Cyperus squarrosus</i> L.	Silva 121 (ASE)	Herb
<i>Cyperus surinamensis</i> Rottb.	Silva 129 (ASE)	Herb
<i>Eleocharis acutangula</i> (Roxb.) Schult.	Costa, S. M. 5 (EAC)	Herb
<i>Eleocharis equisetoides</i> (Elliott) Torr.	Costa 164 (ASE)	Herb
<i>Eleocharis filiculmis</i> Kunth	Costa, S.M. 3 (ASE)	Herb
<i>Eleocharis geniculata</i> (L.) Roem. & Schult.	Pergentino 21 (ASE)	Herb
<i>Eleocharis interstincta</i> (Vahl) Roem. & Schult.	Costa, S.M. 5 (ASE)	Herb
<i>Eleocharis maculosa</i> (Vahl) Roem. & Schult.	Alves 2058 (CEPEC)	Herb
<i>Eleocharis minima</i> Kunth	Nascimento-Júnior 1121 (ASE)	Herb
<i>Eleocharis mutata</i> (L.) Roem. & Schult.	Costa 532 (ASE)	Herb
<i>Eleocharis plicarhachis</i> (Griseb.) Svenson	Silva 120 (ASE)	Herb
<i>Eleocharis schaffneri</i> Boeckeler	Koczicki 511 (MBM)	Herb
<i>Fimbristylis complanata</i> (Retz.) Link	Silva 135 (ASE)	Herb
<i>Fimbristylis cymosa</i> var. <i>spathacea</i> (Roth) T. Koyama	Fonseca 415 (ASE)	Herb
<i>Fimbristylis dichotoma</i> (L.) Vahl	Alves 2056 (ASE)	Herb
<i>Fimbristylis ferruginea</i> (L.) Vahl	Costa, S.M. 168 (ASE)	Herb
<i>Fimbristylis spathacea</i> Roth	Costa 533 (ASE)	Herb
<i>Fuirena umbellata</i> Rottb.	Nascimento-Júnior 761 (ASE)	Herb
<i>Kyllinga brevifolia</i> Rottb.	Silva 126 (ASE)	Herb
<i>Kyllinga squamulata</i> Thonn. ex Vahl	Costa, S. M. 163 (ASE)	Herb
<i>Kyllinga vaginata</i> Lam.	Costa, S. M. 1 (ASE)	Herb
<i>Lagenocarpus guianensis</i> Lindl. ex Nees	Prata 1183 (ASE)	Herb
<i>Lagenocarpus rigidus</i> (Kunth) Nees	Carregosa-Silva 120 (ASE)	Herb
<i>Lagenocarpus verticillatus</i> (Spreng.) T.Koyama & Maguire	Alves 2061 (ASE)	Herb
<i>Lipocarpa micrantha</i> (Vahl) G.C.Tucker	Costa, S.M. 158 (ASE)	Herb
<i>Lipocarpa chinensis</i> (Osbeck) J.Kern	Prata 2821 (ASE)	Herb
<i>Pycnus polystachyos</i> (Rottb.) P.Beauv.	Costa, S.M. 159 (ASE)	Herb
<i>Remirea maritima</i> Aubl.	Farney 2737 (ASE)	Herb
<i>Rhynchospora armerioides</i> J. Presl. & C. Presl	Silva, A.C. 5 (JPB)	Herb
<i>Rhynchospora barbata</i> (Vahl) Kunth	Sant'Ana 381 (CEPEC)	Herb
<i>Rhynchospora cephalotes</i> (L.) Vahl	Viana 7392 (ASE)	Herb
<i>Rhynchospora corymbosa</i> (L.) Britton	Alves 2046 (CEPEC)	Herb
<i>Rhynchospora elegantula</i> Maury	Farias 142 (ASE)	Herb



TABLE 1. CONTINUED.

FAMILIES/SPECIES	VOUCHER	HABIT
<i>Rhynchospora filiformis</i> Vahl	Costa, S.M. 4 (ASE)	Herb
<i>Rhynchospora filiformis</i> var. <i>latifolia</i> Uittien	Costa, S.M. 4 (UFP)	Herb
<i>Rhynchospora globosa</i> (Kunth) Roem. & Schult.	Silva, A.C. 5 (MAC)	Herb
<i>Rhynchospora holoschoenoides</i> (Rich.) Herter	Alves 2055 (CEPEC)	Herb
<i>Rhynchospora nervosa</i> (Vahl) Boeckeler	Alves 2044 (CEPEC)	Herb
<i>Rhynchospora ridleyi</i> C.B. Clarke	Prata 2831 (ASE)	Herb
<i>Rhynchospora riparia</i> (Nees) Boeckeler	Costa, S.M. 165 (ASE)	Herb
<i>Rhynchospora tenerrima</i> Nees ex Spreng.	Silva 9 (ASE)	Herb
<i>Rhynchospora tenuis</i> Link	Costa, S.M. 200 (ASE)	Herb
<i>Scleria hirtella</i> Sw.	Santos, L.A.S. 525 (ASE)	Herb
<i>Scleria interrupta</i> Rich.	Menezes 28 (ASE)	Shrub
<i>Scleria melaleuca</i> Rchb. ex Schldt. & Cham.	Alves 2053 (CEPEC)	Herb
<i>Scleria microcarpa</i> Ness ex Kunth	Prata 2656 (ASE)	Herb
<i>Scleria secans</i> (L.) Urb.	Prata 1180 (ASE)	Herb
DILLENIACEAE		
<i>Curatella americana</i> L.	Carvalho 4320 (ASE)	Tree
<i>Davilla flexuosa</i> A.St.-Hil.	Fonseca R. 477 (ASE)	Tree
<i>Davilla kunthii</i> A. St.-Hil.	Farney 2950 (ASE)	Shrub
<i>Davilla pedicellaris</i> Benth.	Fonseca R. 8 (ASE)	Climber
<i>Tetracera boomii</i> Aymard	Silva 3020 (CEPEC)	Climber
<i>Tetracera breyniana</i> Schltd.	Nascimento-Júnior 759 (ASE)	Climber
DIOSCOREACEAE		
<i>Dioscorea leptostachya</i> Gardner	Nascimento-Júnior 1011 (ASE)	Climber
<i>Dioscorea orthogoneura</i> Uline ex Hochr.	Landim 577 (ASE)	Climber
<i>Dioscorea ovata</i> Vell.	Landim 1182 (ASE)	Climber
<i>Dioscorea sincorensis</i> R.Knuth	Farias 204 (ASE)	Climber
EBENACEAE		
<i>Diospyros artanthifolia</i> Mart.	Carvalho 4328 (CEPEC)	Tree
<i>Diospyros gaultheriifolia</i> Mart. & Miq.	Nascimento-Júnior 851 (ASE)	Tree
ELAEocarpaceae		
<i>Sloanea garckeana</i> K.Schum.	Sant'Ana 470 (CEPEC)	Tree
ERICACEAE		
<i>Gaylussacia brasiliensis</i> (Spreng.) Meisn.	Fonseca 100 (ASE)	Shrub
<i>Actinocephalus polyanthus</i> (Bong.) Sano	Nascimento-Júnior 966 (ASE)	Herb
<i>Actinocephalus ramosus</i> (Wikstr.) Sano	Farney 2713 (ASE)	Herb
<i>Comanthera imbricata</i> (Körn.) L.R.Parra & Giul.	Farney 2689 HUEFS	Herb
<i>Leiothrix flavescens</i> (Bong.) Ruhland	Nascimento-Júnior 842 (ASE)	Herb
<i>Leiothrix pilulifera</i> (Koern.) Ruhland	Farney 2918 (ASE)	Herb
<i>Paepalanthus bifidus</i> (Schrad.) Kunth	Santos, E. 500 (ASE)	Herb
<i>Paepalanthus myocephalus</i> (Mart.) Körn.	Prata 2813 (ASE)	Herb
<i>Paepalanthus subtilis</i> Miq.	Viana 30 (ASE)	Herb
<i>Paepalanthus tortilis</i> (Bong.) Mart.	Silva 3019 (CEPEC)	Herb
<i>Syngonanthus gracilis</i> (Bong.) Ruhland	Farney 2689 (ASE)	Herb
<i>Tonina fluviatilis</i> Aubl.	Alves 2052 (CEPEC)	Herb
ERYTHROXYLACEAE		
<i>Erythroxylum affine</i> A. St.-Hil	Jardim 484 (ASE)	Tree
<i>Erythroxylum columbinum</i> Mart.	Sant'Ana 393 (ASE)	Tree
<i>Erythroxylum mikanii</i> Peyr.	Sant'Ana 372 (CEPEC)	Shrub
<i>Erythroxylum nobile</i> O.E.Schulz	Sant'Ana 393 (CEPEC)	Tree
<i>Erythroxylum passerinum</i> Mart.	Fonseca R. 227 (ASE)	Tree
<i>Erythroxylum revolutum</i> Mart.	Prata 3024 (ASE)	Shrub
<i>Erythroxylum rimosum</i> O.E.Schulz	Carneiro 232 (ASE)	Shrub
EUPHORBIACEAE		
<i>Astraea klotzschii</i> Didr.	Costa 272 (ASE)	Herb
<i>Astraea lobata</i> (L.) Klotzsch	Araújo 14 (ASE)	Herb
<i>Astraea praetervisa</i> (Müll. Arg.) P.E. Berry	Campos 227 (ASE)	Herb
<i>Chaetocarpus echinocarpus</i> (Baill.) Ducke	Prata 3111 (ASE)	Shrub
<i>Chaetocarpus myrsinites</i> Baill.	Sant'Ana 472 (ASE)	Shrub
<i>Cnidoscolus urens</i> (L.) Arthur	Landim 241 (ASE)	Shrub

TABLE 1. CONTINUED.

FAMILIES/SPECIES	VOUCHER	HABIT
<i>Croton glandulosus</i> L.	Prata 3086 (ASE)	Shrub
<i>Croton heliotropiifolius</i> Kunth	Landim 585 (ASE)	Shrub
<i>Croton polyandrus</i> Spreng.	Farney 2691 (SPF)	Shrub
<i>Croton sellowii</i> Baill.	Farinaccio 846 (ASE)	Shrub
<i>Croton urticifolius</i> Lam.	Farinaccio 839 (ASE)	Shrub
<i>Euphorbia bahiensis</i> (Klotzsch & Garcke) Boiss.	Farney 2738 (RB)	Shrub
<i>Euphorbia crossadenia</i> Pax & K. Hoffm.	Costa 219 (ASE)	Shrub
<i>Euphorbia hirta</i> L.	Ramos 16 (ASE)	Tree
<i>Euphorbia hyssopifolia</i> L.	Santos, S.S.C. 7 (ASE)	Climber
<i>Euphorbia sarcodes</i> Boiss.	Viana 731 (HUEFS)	Shrub
<i>Euphorbia tithymaloides</i> L.	Oliveira, D.M. 138 (ASE)	Shrub
<i>Gymnanthes</i> sp.	Prata 3037 (ASE)	Shrub
<i>Jatropha curcas</i> L.	Oliveira, D.M. 87 (ASE)	Shrub
<i>Jatropha gossypifolia</i> L.	Nascimento-Júnior 829 (ASE)	Shrub
<i>Mabea glaziovii</i> Pax & K. Hoffm.	Silva 3010 (CEPEC)	Shrub
<i>Mabea piriri</i> Aubl.	Amorim 1506 (CEPEC)	Herb
<i>Manihot brevifolia</i> P. Carvalho & M. Martins	Nascimento-Júnior 821 (ASE)	Climber
<i>Manihot esculenta</i> Crantz	Oliveira, D.M. 139 (ASE)	Herb
<i>Microstachys corniculata</i> (Vahl) Griseb.	Landim 1164 (IPA)	Tree
<i>Microstachys heterodoxa</i> (Müll. Arg.) Esser	Landim 1161 (IPA)	Shrub
<i>Ricinus communis</i> L.	Oliveira, D.M. 120 (ASE)	Shrub
<i>Sapium glandulosum</i> (L.) Morong	Landim 385 (ASE)	Shrub
<i>Stillingia</i> sp.	Miranda 6103 HUEFS	Shrub
<b>FABACEAE</b>		
<i>Acacia auriculiformis</i> A. Cunn. ex Benth.	Nascimento-Júnior 1110 (ASE)	Tree
<i>Acosmiumbijugum</i> (Vogel) Yakovlev	Farney 2914 (ASE)	Tree
<i>Aeschynomene evenia</i> Wright & Sauvalle	Nascimento-Júnior 880 (ASE)	Shrub
<i>Aeschynomene histrix</i> Poir. var. <i>histrix</i>	Coradin 3348 (EAC)	Herb
<i>Aeschynomene paniculata</i> Willd. ex Vogel	Coradin 3345 (EAC)	Herb
<i>Aeschynomene viscidula</i> Michx.	Nascimento-Júnior 877 (ASE)	Herb
<i>Andira fraxinifolia</i> Benth	Amorim A. 1550 (ASE)	Shrub
<i>Andira humilis</i> Mart. ex Benth.	Farinaccio 845 (ASE)	Shrub
<i>Andira legalis</i> (Vell.) Toledo	Fonseca 598 (ASE)	Shrub
<i>Andira nitida</i> Mart. ex Benth.	Landim 203 (ASE)	Shrub
<i>Bauhinia bidentata</i> var. <i>cornifolia</i> (Baker) Benn.	Alves, J.P. 421 (ASE)	Shrub
<i>Bocoa</i> sp.	Landim 1617 (ASE)	Tree
<i>Bowdichia virgilioides</i> Kunth	Carvalho 4341 (CEPEC)	Herb
<i>Brodriguesia santosii</i> R.S. Cowan	Farney 2900 (ASE)	Shrub
<i>Canavalia rosea</i> (Sw.) DC.	Oliveira, E.V.S. 93 (ASE)	Shrub
<i>Cassia grandis</i> L. f.	Carneiro 125 (ASE)	Herb
<i>Centrosema brasiliense</i> (L.) Benth.	Pergentino 6 (ASE)	Herb
<i>Centrosema pascuorum</i> Mart. ex Benth.	Nascimento-Júnior 1089 (ASE)	Herb
<i>Centrosema rotundifolium</i> Mart. ex Benth.	Fonseca 27838 (IPA)	Herb
<i>Chamaecrista amiciella</i> (H.S. Irwin & Barneby) H.S. Irwin & Barneby	Santos, S.S.C. 8 (ASE)	Tree
<i>Chamaecrista brachystachya</i> (Benth.) Conc. et al.	Fonseca 17 (ASE)	Shrub
<i>Chamaecrista cytisoides</i> (DC. ex Collad.) H.S. Irwin & Barneby	Amorim 1515 (CEPEC)	Herb
<i>Chamaecrista desvauxii</i> (Collad.) Killip	Pergentino 5 (ASE)	Shrub
<i>Chamaecrista diphylla</i> (L.) Greene	Conceição, A.S. 704 (HUEFS)	Shrub
<i>Chamaecrista ensiformis</i> var. <i>ensiformis</i> (Vell.) H.S. Irwin & Barneby	Carneiro, E. 266 (IPA)	Tree
<i>Chamaecrista flexuosa</i> (L.) Greene	Nascimento-Júnior 745 (ASE)	Shrub
<i>Chamaecrista hispidula</i> (Vahl) H.S. Irwin & Barneby	Nascimento-Júnior 734 (ASE)	Shrub
<i>Chamaecrista ramosa</i> var. <i>ramosa</i> (Vogel) H.S. Irwin & Barneby	Nascimento-Júnior 794 (ASE)	Herb
<i>Chamaecrista rotundifolia</i> var. <i>grandiflora</i> (Benth.) H.S. Irwin & Barneby	Nascimento-Júnior 959 (ASE)	Herb
<i>Chamaecrista serpens</i> (L.) Greene	Nascimento-Júnior 885 (ASE)	Herb
<i>Chamaecrista unijuga</i> (Benth.) Conc. et al.	Ribeiro 1 (HUEFS)	Tree
<i>Clitoria laurifolia</i> Poir.	Barros 2413 (SP)	Tree
<i>Crotalaria holosericea</i> Nees & Mart.	Barros 2409 (SP)	Tree
<i>Crotalaria incana</i> L.	Oliveira 457 (ASE)	Herb
<i>Crotalaria lanceolata</i> E. Mey	Nascimento-Júnior 882 (ASE)	Tree

TABLE 1. CONTINUED.

FAMILIES/SPECIES	VOUCHER	HABIT
<i>Crotalaria pallida</i> Aiton	Nascimento-Júnior 915 ( ASE)	Tree
<i>Crotalaria retusa</i> L.	Almeida 16 (ASE)	Shrub
<i>Dalbergia ecastaphyllum</i> (L.) Taub.	Oliveira, E.V.S. 8 (ASE)	Shrub
<i>Desmodium barbatum</i> (L.) Benth.	Cervi S/N (UPCB)	Shrub
<i>Desmodium procumbens</i> (Mill.) Hitchc.	Viana 730 (ASE)	Herb
<i>Dialium</i> sp.	Landim 1240 (ASE)	Tree
<i>Dioclea glabra</i> Benth.	Silva 2982 (CEPEC)	Tree
<i>Dioclea grandiflora</i> Mart. ex Benth.	Carneiro 461 (ASE)	Climber
<i>Dioclea lasiophylla</i> Mart. ex Benth.	Sant'Ana 383 (CEPEC)	Climber
<i>Dioclea violacea</i> Mart. ex Benth.	Amorim 1505 (CEPEC)	Climber
<i>Dioclea virgata</i> (Rich.) Amshoff	Farney 2968 (ASE)	Shrub
<i>Diptychandra aurantiaca</i> subsp. <i>Epunctata</i> (Tul.) H.C.Lima et al.	Amaral 30 (JPB)	Climber
<i>Discolobium</i> sp.	Oliveira 443 (ASE)	Herb
<i>Eriosema</i> sp.	Landim 581 (ASE)	Climber
<i>Erythrina variegata</i> L.	Oliveira, D.M. 142 (ASE)	Tree
<i>Galactia</i> sp.	Viana 645 (ASE)	Climber
<i>Goniorrhachis marginata</i> Taub.	Farney 3000 (CEPEC)	Tree
<i>Hymenaea courbaril</i> L.	Proença 587 HUEFS	Herb
<i>Hymenaea rubiflora</i> Ducke	Santana 905 (ASE)	Shrub
<i>Indigofera hirsuta</i> L.	Santana 84 (ASE)	Herb
<i>Indigofera microcarpa</i> Desv.	Prata 1535 (ASE)	Shrub
<i>Indigofera sabulicola</i> Benth.	Menezes 221 (ASE)	Herb
<i>Inga bollandii</i> Sprague & Sandwith	Amorim 3454 (HUEFS)	Herb
<i>Inga capitata</i> Desv.	Silva 3009 (CEPEC)	Shrub
<i>Inga ciliata</i> C.Presl	Nascimento-Júnior 869 (ASE)	Shrub
<i>Inga laurina</i> (Sw.) Willd.	Amorim 3454 (CEPEC)	Tree
<i>Inga maritima</i> Benth.	Lima 2516 (IPA)	Herb
<i>Inga stipularis</i> DC.	Silva 3039 (CEPEC)	Shrub
<i>Inga subnuda</i> Salzm. ex Benth.	Cruz 84 (ASE)	Tree
<i>Inga tenuis</i> (Vell.) Mart.	Carvalho 4337 (CEPEC)	Tree
<i>Leptolobium bijugum</i> (Spreng.) Vogel	Amorim 1535 (CEPEC)	Shrub
<i>Lonchocarpus sericeus</i> (Poir.) Kunth ex DC.	Santana 154 (ASE)	Tree
<i>Macroptilium lathyroides</i> (L.) Urb.	Oliveira, E.V.S. 2 (ASE)	Herb
<i>Macroptilium panduratum</i> (Benth.) Maréchal & Baudet	Nascimento-Júnior 878 (ASE)	Shrub
<i>Mimosa caesalpinifolia</i> Benth.	Oliveira, D.M. 71 (ASE)	Tree
<i>Mimosa candollei</i> R.Grether	Silva, T.C. 23 (ASE)	Herb
<i>Mimosa pigra</i> L.	Nascimento-Júnior 755 (ASE)	Shrub
<i>Mimosa pudica</i> L.	Oliveira 471 (ASE)	Shrub
<i>Mimosa sensitiva</i> L.	Landim 862 (ASE)	Climber
<i>Mimosa somnians</i> Humb. & Bonpl. ex Willd.	Amorim 1542 (CEPEC)	Tree
<i>Mucuna</i> sp.	Silva 2982 (ASE)	Climber
<i>Periandra mediterranea</i> (Vell.) Taub.	Cruz 74 (HUEFS)	Tree
<i>Rhynchosia phaseoloides</i> (Sw.) DC.	Landim 1499 (ASE)	Shrub
<i>Senegalia tenuifolia</i> (L.) Britton & Rose	Miranda 6098 (HST)	Shrub
<i>Senna angulata</i> (Vogel) H.S.Irwin & Barneby	Carneiro 493 (ASE)	Shrub
<i>Senna australis</i> (Vell.) Irwin & Barneby	Farney 2817 (RB)	Shrub
<i>Senna macranthera</i> (DC. ex Collad.) H.S. Irwin & Barneby	Ramos 94 (ASE)	Shrub
<i>Senna obtusifolia</i> (L.) H.S. Irwin & Barneby	Oliveira, D.M. 110 (ASE)	Herb
<i>Senna occidentalis</i> (L.) Link.	Nascimento-Júnior 765 (ASE)	Herb
<i>Senna phlebadenia</i> H.S.Irwin & Barneby	Sousa 369 (CEPEC)	Herb
<i>Senna splendida</i> var. <i>splendida</i> (Vogel) H.S.Irwin & Barneby	Nascimento-Júnior 916 (ASE)	Shrub
<i>Sophora</i> sp.	Oliveira, E.V.S. 67 (ASE)	Herb
<i>Stryphnodendron pulcherrimum</i> (Willd.) Hochr.	Oliveira, D.M. 226 (ASE)	Tree
<i>Stylosanthes angustifolia</i> Vogel	Viana 729 (ASE)	Herb
<i>Stylosanthes gracilis</i> Kunth	Sant'Ana 376 (CEPEC)	Tree
<i>Stylosanthes guianensis</i> (Aubl.) Sw.	Silva 3011 (CEPEC)	Tree
<i>Stylosanthes viscosa</i> (L.) Sw.	Pergentino 7 (ASE)	Shrub
<i>Swartzia apetala</i> Raddi	Amorim 1521 (CEPEC)	Shrub
<i>Swartzia benthamiana</i> Miq.	Fonseca 435 (ASE)	Tree

TABLE 1. CONTINUED.

FAMILIES/SPECIES	VOUCHER	HABIT
<i>Tachigali densiflora</i> (Benth.) L.G. Silva & H.C.Lima	Carvalho 4331 (CEPEC)	Shrub
<i>Tamarindus indica</i> L.	Oliveira, D.M. 147 (ASE)	Shrub
<i>Tephrosia noctiflora</i> Bojer	Koczicki 529 (MBM)	Shrub
<i>Vigna unguiculata</i> (L.) Walp.	Oliveira, D.M. 146 (ASE)	Shrub
<i>Zornia latifolia</i> Sm.	Nascimento-Júnior 879 (ASE)	Shrub
GENTIANACEAE		
<i>Coutoubea spicata</i> Aubl.	Sant'Ana 385 (CEPEC)	Herb
<i>Curtia</i> sp.	Oliveira, E.V.S. 106 (ASE)	Herb
<i>Schultesia doniana</i> Progel	Campos 184 (ASE)	Herb
<i>Schultesia guianensis</i> (Aubl.) Malme	Fonseca R. 390 (ASE)	Herb
<i>Voyria aphylla</i> (Jacq.) Pers.	Prata 2667 (ASE)	Herb
<i>Voyria caerulea</i> Aubl.	Carvalho 4325 (CEPEC)	Herb
HALORAGACEAE		
<i>Lauremburgia tetrandra</i> (Schott) Kanitz	Nascimento-Júnior 911 (ASE)	Herb
HELICONIACEAE		
<i>Heliconia psittacorum</i> L. f.	Carvalho 4322 (CEPEC)	Herb
HERNANDIACEAE		
<i>Sparattanthelium botocudorum</i> Mart.	Farias 47 (ASE)	Shrub
HUMIRIACEAE		
<i>Humiria balsamifera</i> var. <i>parvifolia</i> (A. Juss.) Cuatrec.	Farney 2826 (ASE)	Shrub
<i>Sacoglottis guianensis</i> var. <i>guianensis</i>	Carvalho 4346 (CEPEC)	Tree
<i>Sacoglottis mattogrossensis</i> Malme	Carvalho 4346 (HUEFS)	Herb
HYDROLEACEAE		
<i>Hydrolea spinosa</i> L.	Nascimento-Júnior 459 (ASE)	Herb
HYPERICACEAE		
<i>Vismia guianensis</i> (Aubl.) Pers.	Landim 1224 (TEPB)	Tree
ICACINACEAE		
<i>Emmotum affine</i> Miers	Costa 238 (ASE)	Shrub
<i>Emmotum fagifolium</i> Desv. ex Ham.	Fonseca 539 (ASE)	Shrub
<i>Emmotum nitens</i> (Benth.) Miers	Rocha 4 (ASE)	Tree
IRIDACEAE		
<i>Trimezia fosteriana</i> Steyererm.	Prata 3108 (ASE)	Herb
KRAMERIACEAE		
<i>Krameria grandiflora</i> A.St.-Hil.	Fonseca 624 (ASE)	Herb
<i>Krameria tomentosa</i> A.St.-Hil.	Farney 2770 (ASE)	Shrub
LAMIACEAE		
<i>Aegiphila graveolens</i> Mart. & Schauer	Carneiro 714 (ASE)	Tree
<i>Aegiphila integrifolia</i> (Jacq.) Moldenke	Oliveira 405 (ASE)	Tree
<i>Eriope blanchetii</i> (Benth.) Harley	Barreto 75 (ASE)	Shrub
<i>Hypenia salzmannii</i> (Benth.) Harley	Santos, E. 473 (ASE)	Herb
<i>Hyptis fruticosa</i> Salzm. ex Benth.	Hatschbach 63193 (UPCB)	Herb
<i>Hyptis pectinata</i> Poit.	Nascimento-Júnior 910 (ASE)	Shrub
<i>Marsypianthes chamaedrys</i> (Vahl) Kuntze	Santana 89 (ASE)	Herb
<i>Rhaphiodon echinus</i> Schauer	Silva, T.C. 17 (ASE)	Herb
<i>Vitex</i> sp.	Carneiro 758 (ASE)	Herb
LAURACEAE		
<i>Cassytha filiformis</i> L.	Nascimento-Júnior 749 (ASE)	Climber
<i>Nectandra lanceolata</i> Nees	Prata 2802 (ASE)	Tree
<i>Ocotea gardneri</i> (Meisn.) Mez	Santos 177 (ASE)	Tree
<i>Ocotea notata</i> (Nees & Mart.) Mez	Farney 2709 (ASE)	Tree
LECYTHIDACEAE		
<i>Eschweilera ovata</i> (Cambess.) Mart. ex Miers	Ferreira 142 (CEPEC)	Shrub
LENTIBULARIACEAE		
<i>Genlisea filiformis</i> A. St.-Hil.	Carregosa-Silva 213 (ASE)	Herb
<i>Utricularia amethystina</i> Salmz. ex A. St.-Hil. & Girard	Prata 2692 (ASE)	Herb
<i>Utricularia erectiflora</i> A. St.-Hil. & Girard	Nascimento-Júnior 1125 (ASE)	Herb
<i>Utricularia foliosa</i> L.	Oliveira, E.V.S. 99 (ASE)	Herb
<i>Utricularia gibba</i> L.	Carregosa-Silva 224 (ASE)	Herb
<i>Utricularia hydrocarpa</i> Vahl	Nascimento-Júnior 908 (ASE)	Herb

TABLE 1. CONTINUED.

FAMILIES/SPECIES	VOUCHER	HABIT
<i>Utricularia lloydii</i> Merl ex F.E. Lloyd	Carregosa-Silva 123 (ASE)	Herb
<i>Utricularia pusilla</i> Vahl	Carregosa-Silva 215 (ASE)	Herb
<i>Utricularia subulata</i> L.	Carregosa-Silva 216 (ASE)	Herb
LINDERNIACEAE		
<i>Micranthemum umbrosum</i> (J.F. Gmel.) S.F. Blake	Nascimento-Júnior 924 (ASE)	Herb
LOGANIACEAE		
<i>Spigelia anthelmia</i> L.	Nascimento-Júnior 766 (ASE)	Herb
<i>Strychnos</i> sp.	Carneiro, E. 141 (IPA)	Shrub
LORANTHACEAE		
<i>Cladoclea</i> sp.	Prata 3041 (ASE)	Parasite
<i>Psittacanthus dichrous</i> (Mart.) Mart.	Landim 1189 (IPA)	Parasite
<i>Struthanthus polyrrhizus</i> (Mart.) Mart.	Pergentino 8 (ASE)	Parasite
<i>Struthanthus syringifolius</i> (Mart.) Mart.	Fonseca 469 (ASE)	Parasite
LYTHRACEAE		
<i>Cuphea carthagenensis</i> (Jacq.) J.F. Macbr.	Viana 302 (ASE)	Herb
<i>Cuphea ericoides</i> Cham. & Schltdl.	Amorim 1536 (CEPEC)	Shrub
<i>Cuphea flava</i> Spreng.	Pergentino 9 (ASE)	Shrub
<i>Lafoensia vandelliana</i> Cham. & Schltdl.	Sant'Ana 471 (CEPEC)	Tree
MALPIGHIACEAE		
<i>Byrsonima chrysophylla</i> Kunth	Barros 2404 (SP)	Tree
<i>Byrsonima coccolobifolia</i> Kunth	Santos, S.S.C. 12 (ASE)	Tree
<i>Byrsonima gardnerana</i> A. Juss.	Ramos 91 (ASE)	Shrub
<i>Byrsonima intermedia</i> A. Juss.	Nascimento-Júnior 737 (ASE)	Tree
<i>Byrsonima microphylla</i> A. Juss.	Amorim 1527 (CEPEC)	Tree
<i>Byrsonima sericea</i> DC.	Pergentino 10 (ASE)	Shrub
<i>Byrsonima vacciniifolia</i> A. Juss.	Amorim 1554 (ASE)	Shrub
<i>Byrsonima verbascifolia</i> (L.) DC.	Prata 6040 (ASE)	Shrub
<i>Galphimia brasiliensis</i> (L.) A. Juss.	Fonseca 375 (ASE)	Shrub
<i>Heteropterys sericea</i> (Cav.) A. Juss.	Carvalho 4335 (CEPEC)	Climber
<i>Malpighia emarginata</i> DC.	Oliveira, D.M. 114 (ASE)	Tree
<i>Peixotoa hispidula</i> A. Juss.	Amorim 1555 (CEPEC)	Climber
<i>Stigmaphyllon blanchetii</i> C.E. Anderson	Carvalho 4319 (CEPEC)	Climber
<i>Stigmaphyllon bonariense</i> (Hook. & Arn.) C.E. Anderson	Campos 145 (ASE)	Shrub
<i>Stigmaphyllon paralias</i> A. Juss.	Amorim 1533 (CEPEC)	Shrub
<i>Tetrapteryx</i> sp.	Carneiro 463 (ASE)	Climber
MALVACEAE		
<i>Bakeridesia</i> sp.	Gomes 275 (ASE)	Herb
<i>Gossypium barbadense</i> L.	Oliveira, D.M. 122 (ASE)	Tree
<i>Guazuma ulmifolia</i> Lam.	Oliveira, D.M. 104 (ASE)	Tree
<i>Melochia spicata</i> (L.) Fryxell	Landim 178 (ASE)	Herb
<i>Pavonia cancellata</i> (L.) Cav.	Prata 3080 (ASE)	Herb
<i>Pavonia humifusa</i> A. St.-Hil.	Nascimento-Júnior 717 (ASE)	Herb
<i>Sida glaziovii</i> K. Schum.	Oliveira, D.M. 96 (ASE)	Herb
<i>Sida linifolia</i> Cav.	Oliveira 470 (ASE)	Herb
<i>Triumfetta althaeoides</i> Lam.	Prata 2746 (ASE)	Shrub
<i>Triumfetta rhomboidea</i> Jacq.	Prata 2745 (ASE)	Shrub
<i>Urena lobata</i> L.	Prata 2747 (ASE)	Shrub
<i>Waltheria americana</i> L.	Oliveira, E.V.S. 66 (ASE)	Shrub
<i>Waltheria cinerescens</i> A. St.-Hil.	Nascimento-Júnior 978 (ASE)	Shrub
<i>Waltheria lantanifolia</i> A. St.-Hil. & Naudin	Silva 2999 (CEPEC)	Herb
MARANTACEAE		
<i>Maranta</i> sp.	Prata 2686 (ASE)	Herb
<i>Stromanthe portearia</i> Gris.	Carvalho 4332 (CEPEC)	Herb
MAYACACEAE		
<i>Mayaca fluviatilis</i> Aubl.	Nascimento-Júnior 912 (ASE)	Herb
MELASTOMATACEAE		
<i>Aciotis</i> sp.	Sant'Ana 392 (ASE)	Shrub
<i>Clidemia hirta</i> (L.) D. Don	Amorim 3465 (ASE)	Shrub
<i>Comolia ovalifolia</i> (DC.) Triana	Amorim 1552 (ASE)	Shrub



TABLE 1. CONTINUED.

FAMILIES/SPECIES	VOUCHER	HABIT
<i>Comolia villosa</i> (Aubl.) Triana	Fonseca R. 734 (ASE)	Herb
<i>Marsetia ericoides</i> (Spreng.) O.Berg ex Cogn.	Fonseca S/N (IPA)	Herb
<i>Miconia amoena</i> Triana	Viana 236 (ASE)	Shrub
<i>Miconia ciliata</i> (Rich.) DC.	Prata 2681 (ASE)	Shrub
<i>Miconia ferruginata</i> DC.	Orlandi 171 (RP)	Tree
<i>Miconia holosericea</i> (L.) DC.	Sant'Ana 373 (CEPEC)	Herb
<i>Mouriri guianensis</i> Aubl.	Nascimento-Júnior 436 (ASE)	Tree
<i>Mouriri pusa</i> Gardner	Amorim 1512 (CEPEC)	Shrub
<i>Nepsera aquatica</i> (Aubl.) Naud.	Nascimento-Júnior 726 (ASE)	Tree
<i>Pterolepis cataphracta</i> (Cham.) Triana	Nascimento-Júnior 929 (ASE)	Shrub
<i>Pterolepis trichotoma</i> (Rottb.) Cogn.	Carvalho 4318 (CEPEC)	Shrub
<i>Rhynchanthera</i> sp.	Prata 2820 (ASE)	Shrub
<i>Tibouchina aspera</i> Aubl.	Campos 214 (ASE)	Shrub
<b>MELIACEAE</b>		
<i>Guarea</i> sp.	Viana 504 (ASE)	Tree
<b>MENISPERMACEAE</b>		
Indet.	Farney 2916 (RB)	Herb
<b>MENYANTHACEAE</b>		
<i>Nymphoides indica</i> (L.) Kuntze	Nascimento-Júnior 441 (ASE)	Herb
<b>MOLLUGINACEAE</b>		
<i>Mollugo verticillata</i> L.	Fonseca R. 672 (ASE)	Herb
<b>MORACEAE</b>		
<i>Brosimum gaudichaudii</i> Trécul	Amorim 1519 (CEPEC)	Tree
<i>Brosimum rubescens</i> Taubert.	Amorim A. 1519 (ASE)	Tree
<i>Ficus cyclophylla</i> (Miq.) Miq.	Farney 2721 (ASE)	Shrub
<i>Ficus guianensis</i> Desv. ex Ham.	Menezes 220 (ASE)	Tree
<i>Maquira</i> sp.	Farinaccio 843 (ASE)	Tree
<b>MUSACEAE</b>		
<i>Musa paradisiaca</i> L.	Oliveira, D.M. 170 (ASE)	Herb
<b>MYRTACEAE</b>		
<i>Blepharocalyx eggersii</i> (Kiaersk.) Landrum	Amorim 1522 (CEPEC)	Shrub
<i>Calycolpus legrandii</i> Mattos	Farney 2940 (ASE)	Shrub
<i>Calypttranthes brasiliensis</i> Spreng.	Nascimento-Júnior 807 (ASE)	Tree
<i>Calypttranthes clusiifolia</i> O.Berg	Santos 174 (ASE)	Shrub
<i>Calypttranthes dardanoi</i> Mattos	Proença E. B. 4066 (HUEFS)	Shrub
<i>Calypttranthes restingae</i> Sobral	Farney 2913 (UB)	Shrub
<i>Campomanesia dichotoma</i> (O.Berg) Mattos	Farney 2932 (ASE)	Tree
<i>Campomanesia eugenioideis</i> (Cambess.) D.Legrand ex Landrum	Farney 2932 (RB)	Tree
<i>Campomanesia guaviroba</i> (DC.) Kiaersk.	Oliveira, D.M. 53 (ASE)	Tree
<i>Campomanesia ilhoensis</i> Mattos	Viana 294 (ASE)	Tree
<i>Campomanesia xanthocarpa</i> (Mart.) O.Berg	Oliveira 482 (ASE)	Shrub
<i>Eugenia astringens</i> Cambess.	Silva, T.C. 36 (ASE)	Shrub
<i>Eugenia brejoensis</i> Mazine	Prata 3013 (ASE)	Tree
<i>Eugenia candolleana</i> DC.	Landim 1149 (ASE)	Tree
<i>Eugenia cerasiflora</i> Miq.	Gomes 270 (ASE)	Shrub
<i>Eugenia costatifructa</i> Mazine	Santana 916 (ASE)	Shrub
<i>Eugenia excelsa</i> O. Berg	Oliveira, D.M. 214 (ASE)	Tree
<i>Eugenia hirta</i> O. Berg	Amorim 3455 (CEPEC)	Tree
<i>Eugenia involucrata</i> DC.	Farney 2940 (RB)	Shrub
<i>Eugenia pohliana</i> DC.	Santana 913 (ASE)	Shrub
<i>Eugenia puniceifolia</i> (Kunth) DC.	Landim 167 (ASE)	Shrub
<i>Eugenia pyriformis</i> Cambess.	Prata 3036 (ASE)	Shrub
<i>Eugenia rostrata</i> O. Berg	Farney 2905 (UB)	Shrub
<i>Eugenia schottiana</i> O. Berg	Oliveira 346 (ASE)	Herb
<i>Eugenia stictopetala</i> DC.	Santana 99 (ASE)	Shrub
<i>Eugenia umbelliflora</i> O.Berg	Silva 3030 (CEPEC)	Tree
<i>Eugenia uniflora</i> L.	Santos 26 (ASE)	Tree
<i>Marlierea excoriata</i> Mart.	Sant'Ana 481 (CEPEC)	Shrub
<i>Marlierea glabra</i> Cambess.	Souza, M.L. 1140 (UB)	Tree

TABLE 1. CONTINUED.

FAMILIES/SPECIES	VOUCHER	HABIT
<i>Marlierea neuwiediana</i> (O.Berg) Nied.	Rocha 9 (ASE)	Tree
<i>Marlierea parvifolia</i> O.Berg	Landim 1468 (HUEFS)	Tree
<i>Myrcia bergiana</i> O. Berg	Landim 1153 (ASE)	Shrub
<i>Myrcia decorticans</i> DC.	Landim 734 (ASE)	Shrub
<i>Myrcia densa</i> (DC.) Sobral	Prata 3082 (ASE)	Tree
<i>Myrcia guianensis</i> (Aubl.) DC.	Souza 33 (ASE)	Tree
<i>Myrcia hirtiflora</i> DC.	Farney 2910 (CEPEC)	Tree
<i>Myrcia lundiana</i> Kiaersk.	Landim 569 (CEPEC)	Tree
<i>Myrcia multiflora</i> (Lam.) DC.	Farney 2902 (HUEFS)	Shrub
<i>Myrcia neoblanchetiana</i> E.Lucas & Sobral	Landim 1173 (JPB)	Shrub
<i>Myrcia obovata</i> (O.Berg) Nied.	Carvalho 4345 (CEPEC)	Shrub
<i>Myrcia polyantha</i> DC.	Oliveira, D.M. 63 (ASE)	Tree
<i>Myrcia pubiflora</i> DC.	Proença E.B. 4067 (UB)	Tree
<i>Myrcia rosangelae</i> NicLugh.	Landim 1173 (ASE)	Tree
<i>Myrcia rotundifolia</i> (O.Berg) Kiaersk.	Farney 2931 (SP)	Shrub
<i>Myrcia splendens</i> (Sw.) DC.	Amorim 1518 (CEPEC)	Tree
<i>Myrcia tomentosa</i> (Aubl.) DC.	Prata 3076 (ASE)	Shrub
<i>Myrciaria floribunda</i> (West. ex Willd.) O. Berg	Landim 166 (ASE)	Shrub
<i>Myrciaria tenella</i> (Mart ex DC.) O. Berg	Viana 304 (ASE)	Shrub
<i>Neomitranthes obtusa</i> Sobral & Zambom	Landim 419 (ASE)	Shrub
<i>Psidium amplexicaule</i> Pers.	Landim 607 (ASE)	Shrub
<i>Psidium decussatum</i> DC.	Oliveira, D.M. 100 (ASE)	Shrub
<i>Psidium guajava</i> L.	Nascimento-Júnior 808 (ASE)	Shrub
<i>Psidium guyanense</i> Pers.	Souza 37 (ASE)	Tree
<i>Psidium oligospermum</i> Mart. ex DC.	Prata 3059 (ASE)	Shrub
<i>Psidium sartorianum</i> (O. Berg) Nied.	Sant'Ana 502 (NYBG_BR)	Shrub
<i>Syzygium cumini</i> (L.) Skeels	Oliveira, D.M. 218 (ASE)	Tree
NYCTAGINACEAE		
<i>Boerhavia diffusa</i> L.	Oliveira, D.M. 135 (ASE)	Climber
<i>Guapira pernambucensis</i> (Casar.) Lundell	Farney 2688 (ASE)	Shrub
<i>Guapira tomentosa</i> (Casar.) Lundell	Landim 170 (ASE)	Tree
<i>Neea theifera</i> Oerst.	Ramos 50 (ASE)	Shrub
NYMPHAEACEAE		
<i>Nymphaea rudgeana</i> G. Mey.	Viana 299 (ASE)	Herb
OCHNACEAE		
<i>Ourateacrasa</i> Tiegh.	Amorim 1528 (CEPEC)	Shrub
<i>Ourateacuspida</i> (A.St.-Hil.) Engl.	Farinaccio 847 (ASE)	Shrub
<i>Ourateafeldingiana</i> (Gardner) Engl.	Farney 2675 (ASE)	Shrub
<i>Sauvagesia erecta</i> L.	Oliveira, E.V.S. 143 (ASE)	Herb
<i>Sauvagesia sprengelii</i> A. St.-Hil.	Fonseca 622 (ASE)	Herb
OLACACEAE		
<i>Ximenia americana</i> L.	Oliveira 444 (ASE)	Shrub
ONAGRACEAE		
<i>Ludwigia leptocarpa</i> (Nutt.) H. Hara	Nascimento-Júnior 753 (ASE)	Herb
<i>Ludwigia octovalvis</i> (Jacq.) H.P. Raven	Prata 2750 (ASE)	Shrub
ORCHIDACEAE		
<i>Alatiglossum barbatum</i> (Lindl.) Baptista	Carvalho 4334 (ASE)	Epiphyte
<i>Catasetum discolor</i> (Lindl.) Lindl.	Hatschbach 63209 (MBM)	Epiphyte
<i>Cyrtopodium</i> sp.	Santos, L.A.S. 577 (ASE)	Herb
<i>Encyclia oncidoides</i> (Lindl.) Schltr.	Viana 300 (ASE)	Herb
<i>Epidendrum cinnabarinum</i> Salzm.	Nascimento-Júnior 788 (ASE)	Herb
<i>Epidendrum orchidiflorum</i> (Salzm.) Lindl.	Nascimento-Júnior 942 (ASE)	Herb
<i>Epistephium lucidum</i> Cogn.	Nascimento-Júnior 933 (ASE)	Herb
<i>Galeandra montana</i> Barb. Rodr.	Santos, L.A.S. 578 (ASE)	Herb
<i>Habenaria petalodes</i> Lindl.	Prata 2817 (ASE)	Herb
<i>Habenaria pratensis</i> (Salzm. ex Lindl.) Rchb.f.	Prata 2660 (ASE)	Herb
<i>Habenaria rotundiloba</i> Pabst	Nascimento-Júnior 1091 (ASE)	Herb
<i>Liparis nervosa</i> (Thunb.) Lindl.	Farias 235 (ASE)	Herb
<i>Oeceoclades maculata</i> (Lindl.) Lindl.	Prata 2741 (ASE)	Herb

TABLE 1. CONTINUED.

FAMILIES/SPECIES	VOUCHER	HABIT
<i>Vanilla bahiana</i> Hoehne	Prata 2662 (ASE)	Herb
<i>Vanilla palmarum</i> (Salzm. ex Lindl.) Lindl.	Landim 194 (ASE)	Epiphyte
<i>Vanilla planifolia</i> Jacks. ex Andrews	Landim 1168 (ASE)	Herb
OROBANCHACEAE		
<i>Agalinis hispidula</i> (Mart.) D'Arcy	Sant'Ana 396 (CEPEC)	Herb
<i>Buchnera</i> sp.	Viana 1336 (ASE)	Herb
PASSIFLORACEAE		
<i>Passiflora edulis</i> Sims	Oliveira, D.M. 95 (ASE)	Climber
<i>Passiflora foetida</i> var. <i>moritziana</i> L.	Cervi 3621 (FUEL)	Climber
<i>Passiflora misera</i> Kunt.	Prata 2644 (ASE)	Climber
<i>Passiflora mucronata</i> Lam.	Landim 1151 (HUEFS)	Climber
<i>Passiflora porophylla</i> Vell.	Jardim 320 (CEPEC)	Climber
<i>Passiflorasilvestris</i> Vell.	Ramos 72 (ASE)	Climber
PENTAPHYLACACEAE		
<i>Ternstroemia brasiliensis</i> Cambess.	Farney 834 (ASE)	Tree
PERACEAE		
<i>Pera glabrata</i> (Schott) Poepp. ex Baill.	Landim 1191 (IPA)	Tree
<i>Pogonophora schomburgkiana</i> Miers ex Benth.	Sant'Ana 486 (ASE)	Tree
PHYLLANTHACEAE		
<i>Phyllanthus klotzschianus</i> Müll.Arg.	Amorim 1526 CEPEC	Shrub
<i>Phyllanthus niruri</i> L.	Oliveira, D.M. 126 (ASE)	Herb
<i>Richeria grandis</i> Vahl	Fonseca 10 (ASE)	Tree
PHYTOLACCACEAE		
<i>Microtea paniculata</i> Moq.	Nascimento-Júnior 876 (ASE)	Herb
<i>Petiveria alliacea</i> L.	Oliveira, D.M. 219 (ASE)	Shrub
PICRAMNIACEAE		
<i>Picramnia</i> sp.	Farney 2889 (SPF)	Tree
PLANTAGINACEAE		
<i>Achetaria scutellarioides</i> (Benth.) Wettst.	Sant'Ana 384 (CEPEC)	Herb
<i>Angelonia biflora</i> Benth.	Santana 923 (ASE)	Herb
<i>Angelonia cornigera</i> Hook.f.	Souza 15 (ASE)	Herb
<i>Angelonia salicariifolia</i> Bonpl.	Sant'Ana 476 (CEPEC)	Herb
<i>Scoparia dulcis</i> L.	Jardim 316 (CEPEC)	Herb
<i>Stemodia foliosa</i> Benth.	Nascimento-Júnior 1088 (ASE)	Herb
<i>Stemodia maritima</i> L.	Prata 2958 (ASE)	Herb
PLUMBAGINACEAE		
<i>Plumbago scandens</i> L.	Landim 1495 (ASE)	Shrub
POACEAE		
<i>Andropogon selloanus</i> (Hack.) Hack.	Pergentino 12 (ASE)	Herb
<i>Axonopus aureus</i> P. Beauv.	Santos, L.A.S. 568 (ASE)	Herb
<i>Cenchrus echinatus</i> L.	Silva 3040 (CEPEC)	Herb
<i>Chloris barbata</i> Sw.	Menezes 231 (ASE)	Herb
<i>Cymbopogon</i> sp.	Vasconcelos 40 (ASE)	Herb
<i>Cyphonanthus discrepans</i> (Döll) Zuloaga & Morrone	Amorim 1548 (CEPEC)	Herb
<i>Digitaria ciliaris</i> (Retz.) Koeler	Pergentino 13 (ASE)	Herb
<i>Eragrostis articulata</i> (Schrank) Nees	Carvalho 4347 (CEPEC)	Herb
<i>Eragrostis bahiensis</i> Schrad. ex Schult.	Farney 2980 (ASE)	Herb
<i>Eragrostis ciliaris</i> (L.) R.Br.	Menezes 229 (ASE)	Herb
<i>Eragrostis rufescens</i> Schrad. ex Schult.	Nascimento-Júnior 724 (ASE)	Herb
<i>Eragrostis prolifera</i> (Sw.) Steud.	Carregosa-Silva 74 (ASE)	Shrub
<i>Gouinia barbata</i> (Hack.) Swallen	Silva 3014 (CEPEC)	Shrub
<i>Gouinia brasiliensis</i> (S.Moore) Swallen	Mattos-Silva 3014 (ASE)	Herb
<i>Ichnanthus calvescens</i> Nees	Carneiro 55 (ASE)	Herb
<i>Ichnanthus nemoralis</i> (Schrad. ex Schult.) Hitchc. & Chase	Carvalho 4323 (CEPEC)	Shrub
<i>Isachne</i> sp.	Sá ASE N. 11448 (ASE)	Herb
<i>Panicum cyanescens</i> Nees ex Trin.	Souza 29 (ASE)	Herb
<i>Panicum racemosum</i> (P. Beauv.) Spreng.	Farney 2743 (ASE)	Shrub
<i>Paspalum divergens</i> Döll	Costa, S.M. 370 (ASE)	Herb
<i>Paspalum maritimum</i> Trin.	Farney 2964 (ASE)	Herb

TABLE 1. CONTINUED.

FAMILIES/SPECIES	VOUCHER	HABIT
<i>Paspalum vaginatum</i> Sw.	Santos, S.S.C. 6 (ASE)	Herb
<i>Sacciolepis vilvoides</i> (Trin.) Chase	Costa, S.M. 363 (ASE)	Herb
<i>Setaria parviflora</i> (Poir.)	Oliveira, E.V.S. 61 (ASE)	Herb
<i>Sporobolus virginicus</i> (L.) Kunth	Farney 2744 (ASE)	Herb
<i>Steinchisma laxa</i> (Sw.) Zuloaga	Nascimento-Júnior 514 (ASE)	Herb
POLYGALACEAE		
<i>Asemeia ovata</i> (Poir.) J.F.B.Pastore & J.R.Abbott	Costa 267 (ASE)	Herb
<i>Bredemeyera hebeclada</i> (DC.) J.F.B.Pastore	Amaral 38 (IPA)	Climber
<i>Polygala cyparissias</i> A. St.-Hil. & Moq.	Nascimento-Júnior 1019 (ASE)	Herb
<i>Polygala galioides</i> Poir.	Sant'Ana 374 (IPA)	Herb
<i>Polygala glochidiata</i> Kunth	Nascimento-Júnior 905 (ASE)	Herb
<i>Polygala leptocaulis</i> Torr. & A.Gray	Fonseca R. 200 (ASE)	Shrub
<i>Polygala longicaulis</i> Kunth	Nascimento-Júnior 722 (ASE)	Shrub
<i>Polygala martiana</i> A.W.Benn.	Landim 502 (ASE)	Herb
<i>Polygala trichosperma</i> Jacq.	Silva, T.C. 38 (ASE)	Herb
<i>Polygala violacea</i> Aubl.	Oliveira 430 (ASE)	Herb
<i>Securidaca diversifolia</i> (L.) S.F.Blake	Carneiro 179 (ASE)	Climber
POLYGONACEAE		
<i>Coccoloba rosea</i> Meisn.	Sant'Ana 378 (ASE)	Tree
<i>Coccoloba alnifolia</i> Casar.	Sant'Ana 378 (CEPEC)	Tree
<i>Coccoloba declinata</i> (Vell.) Mart.	Carvalho 4336 (CEPEC)	Shrub
<i>Coccoloba laevis</i> Casar.	Landim 165 (ASE)	Shrub
<i>Coccoloba parimensis</i> Benth.	Amorim 1488 (CEPEC)	Shrub
<i>Polygonum</i> sp.	Cruz 8167 (ASE)	Herb
PONTEDERIACEAE		
<i>Eichhornia paniculata</i> (Spreng.) Solms	Nascimento-Júnior 925 (ASE)	Herb
<i>Eichhornia gracipes</i> (Mart.) Solms	Ramos 32 (ASE)	Herb
PORTULACACEAE		
<i>Portulaca elatior</i> Mart.	Nascimento-Júnior 883 (ASE)	Herb
<i>Portulaca halimoides</i> L.	Campos 133 (ASE)	Herb
<i>Portulaca umbraticola</i> Kunth.	Conceição, A.S. 705 (CEPEC)	Herb
PRIMULACEAE		
<i>Myrsine monticola</i> Mart.	Fonseca S/N (IPA)	Shrub
<i>Myrsine parvifolia</i> A.DC.	Farney 2727 (ASE)	Shrub
RHAMNACEAE		
<i>Ziziphus joazeiro</i> Mart.	Santos, S.S.C. 14 (ASE)	Tree
<i>Ziziphus undulata</i> Reissek	Nascimento-Júnior 906 (ASE)	Tree
RHIZOPHORACEAE		
<i>Rhizophora mangle</i> L.	Prata 2653 (ASE)	Tree
RUBIACEAE		
<i>Alseis floribunda</i> Schott	Carvalho 4343 (HUEFS)	Shrub
<i>Borreria capitata</i> (Ruiz & Pav.) DC.	Oliveira, E.V.S. 149 (ASE)	Herb
<i>Borreria verticillata</i> (L.) G.F.W.	Oliveira, E.V.S. 125 (ASE)	Herb
<i>Chiococca alba</i> (L.) Hitchc.	Ramos ASE N. 7376 (ASE)	Shrub
<i>Chiococca plowmanii</i> Delprete	Nascimento-Júnior 814 (ASE)	Shrub
<i>Chomelia anisomeris</i> Müll.Arg.	Oliveira 435 (ASE)	Shrub
<i>Chomelia obtusa</i> Cham. & Schltdl.	Oliveira, E.V.S. 30 (ASE)	Shrub
<i>Cordia concolor</i> (Cham.) Kuntze	Farney 2701 (ASE)	Shrub
<i>Cordia obtusa</i> (K.Schum.) Kuntze	Farney 2823 (RB)	Shrub
<i>Denscantia cymosa</i> (Spreng.) E.L.Cabral & Bacigalupo	Farias 239 (ASE)	Climber
<i>Diodella radula</i> (Willd. ex Roem. & Schult.) Delprete	Ramos 42 (ASE)	Shrub
<i>Diodella</i> sp.	Nascimento-Júnior 773 (ASE)	Shrub
<i>Genipa americana</i> L.	Oliveira, D.M. 171 (ASE)	Tree
<i>Guettarda platyphylla</i> Müll.Arg.	Nascimento-Júnior 533 (ASE)	Shrub
<i>Guettarda platypoda</i> DC.	Landim 1187 (ASE)	Shrub
<i>Ixora muelleri</i> Bremek.	Sant'Ana 371 (ASE)	Tree
<i>Margaritopsis astrellantha</i> (Wernham) L. Andersson	Carvalho 4330 (MBM)	Shrub
<i>Margaritopsis chaenotricha</i> (DC.) C.M.Taylor	Carvalho 4330 (CEPEC)	Shrub
<i>Mitracarpus eichleri</i> K.Schum.	Cervi 3620 (ASE)	Herb

TABLE 1. CONTINUED.

FAMILIES/SPECIES	VOUCHER	HABIT
<i>Mitracarpus frigidus</i> (Willd. ex Roem. & Schult.) K.Schum.	Pergentino 17 (ASE)	Herb
<i>Mitracarpus hirtus</i> (L.) DC.	Oliveira, E.V.S. 85 (ASE)	Herb
<i>Mitracarpus megapotaemicus</i> (Spreng.) Kuntze	Carneiro 56 (ASE)	Herb
<i>Oldenlandia</i> sp.	Menezes 240 (ASE)	Shrub
<i>Pagamea guianensis</i> Aubl.	Farias 252 (ASE)	Shrub
<i>Palicourea crocea</i> (Sw.) Roem. & Schult.	Sant'Ana 394 (CEPEC)	Shrub
<i>Perama hirsuta</i> Aubl.	Nascimento-Júnior 948 (ASE)	Herb
<i>Posoqueria</i> sp.	Landim 1167 (ASE)	Shrub
<i>Psychotria bracteocardia</i> (DC.) Müll.Arg.	Carneiro 499 (ASE)	Shrub
<i>Psychotria hoffmannseggiana</i> (Willd. ex Schult.) Müll.Arg.	Landim 583 ASE	Shrub
<i>Psychotria platypoda</i> DC.	Carvalho 4324 (CEPEC)	Shrub
<i>Psyllocarpus laricoides</i> Mart. ex Mart. & Zucc.	Campos 120 (ASE)	Shrub
<i>Randia</i> sp.	Carneiro 143 (ASE)	Tree
<i>Richardia grandiflora</i> (Cham. & Schltdl.) Steud.	Landim 1485 (ASE)	Shrub
<i>Sabicea grisea</i> Cham. & Schltdl.	Carneiro 503 (ASE)	Climber
<i>Salzmannia nitida</i> DC.	Amorim 3466 (CEPEC)	Shrub
<i>Staelia thymoides</i> Cham. & Schltdl.	Silva 2988 (CEPEC)	Shrub
<i>Staelia virgata</i> (Link ex Roem. & Schult.) K.Schum.	Jardim 309 (CEPEC)	Shrub
<i>Tocoyena brasiliensis</i> Mart.	Landim 1502 (ASE)	Shrub
<i>Tocoyena bullata</i> (Vell.) Mart.	Melo 17 (ASE)	Shrub
<i>Tocoyena formosa</i> (Cham. & Schltdl.) K.Schum.	Landim 409 (ASE)	Shrub
<i>Tocoyena sellowiana</i> (Cham. & Schltdl.) K.Schum. sellawiana	Nascimento-Júnior 739 (ASE)	Shrub
RUTACEAE		
<i>Esenbeckia grandiflora</i> var. <i>intermedia</i> (Mart. ex Engl.) Kaastra	Fonseca 125 (MOSS)	Shrub
<i>Esenbeckia grandiflora</i> subsp. <i>Brevipetiolata</i> Kaastra	Souza, G. 359 (CEPEC)	Shrub
SALICACEAE		
<i>Casearia lasiophylla</i> Eichler	Oliveira 350 (ASE)	Shrub
<i>Casearia sylvestris</i> Sw.	Carneiro, E. 716 (MBM)	Shrub
SANTALACEAE		
<i>Phoradendron quadrangulare</i> (Kunth) Griseb.	Ramos 68 (ASE)	Parasite
<i>Phoradendron strongyloclados</i> Eichler	Souza, G. 377 (CEPEC)	Parasite
<i>Phoradendron trinervium</i> (Lam.) Griseb.	Santana 95 (UB)	Herb
SAPINDACEAE		
<i>Cupania emarginata</i> Cambess	Ramos 89 (ASE)	Shrub
<i>Cupania impressinervia</i> Acev.-Rodr.	Sant'Ana 390 (CEPEC)	Shrub
<i>Matayba discolor</i> (Spreng.) Radlk.	Nascimento-Júnior 888 (ASE)	Shrub
<i>Matayba elaeagnoides</i> Radlk.	Prata 3029 (ASE)	Tree
<i>Matayba guianensis</i> Radlk.	Cruz 20 (JPB)	Tree
<i>Paullinia elegans</i> Cambess.	Prata 2765 (ASE)	Herb
<i>Paullinia trigonia</i> Vell.	Oliveira 366 (ASE)	Climber
<i>Paullinia weinmanniifolia</i> Mart.	Jardim 324 (ASE)	Climber
<i>Sapindus saponaria</i> L.	Matos 138 (ASE)	Tree
<i>Serjania glabrata</i> Kunt	Prata 3153 (ASE)	Tree
<i>Serjania paradoxa</i> Radlk.	Fonseca ASE N. 46 (ASE)	Climber
<i>Serjania salzmänniana</i> Schltdl.	Landim 592 (ASE)	Climber
SAPOTACEAE		
<i>Chrysophyllum</i> sp.	Landim 1467 (ASE)	Climber
<i>Manilkara rufula</i> (Miq.) H.J.Lam	Farney 2679 (ASE)	Tree
<i>Manilkara salzmännii</i> (A.DC.) H.J.Lam	Proença 588 (ASE)	Tree
<i>Micropholis emarginata</i> T.D.Penn.	Fonseca ASE N. 499 (ASE)	Shrub
<i>Micropholis gardneriana</i> (A.DC.) Pierre	Carvalho 4317 (CEPEC)	Tree
<i>Pouteria grandiflora</i> (A.DC.) Baehni	Amorim A. 1516 (ASE)	Tree
<i>Pouteria macahensis</i> T.D.Penn.	Amaral 36 (IPA)	Shrub
<i>Pouteria venosa</i> (Mart.) Baehni	Farinaccio 836 (ASE)	Tree
<i>Pradosia</i> sp.	Amaral 41 (ASE)	Tree
<i>Sideroxylon obtusifolium</i> subsp. <i>Obtusifolium</i> (Roem. & Schult.) T.D.Penn.	Oliveira, D.M. 78 (ASE)	Shrub
SCHOEPFIACEAE		
<i>Schoepfia brasiliensis</i> A. DC.	Landim 169 (ASE)	Shrub



TABLE 1. CONTINUED.

FAMILIES/SPECIES	VOUCHER	HABIT
SCROPHULARIACEAE		
<i>Scrophularia</i> sp.	Costa 362 (ASE)	Herb
SIMAROUACEAE		
<i>Simaba cedron</i> Planch.	Prata 3126 (ASE)	Tree
<i>Simaba ferruginea</i> A.St.-Hil.	Landim 713 (ASE)	Tree
SMILACACEAE		
<i>Smilax brasiliensis</i> (Spreng)	Matos 73 (ASE)	Climber
<i>Smilax rufescens</i> Griseb.	Farney 2927 (ASE)	Climber
SOLANACEAE		
<i>Capsicum frutescens</i> L.	Oliveira, D.M. 116 (ASE)	Shrub
<i>Cestrum axillare</i> Vell.	Viana 296 (ASE)	Shrub
<i>Schwenckia americana</i> var. <i>americana</i> Rosy ex L.	Viana 1338 (ASE)	Herb
<i>Solanum americanum</i> Mill.	Oliveira, D.M. 142 (ASE)	Herb
<i>Solanum granulosoleprosum</i> Dunal	Prata 2830 (ASE)	Herb
<i>Solanum lycocarpum</i> A. St.-Hil.	Oliveira, D.M. 148 (ASE)	Herb
<i>Solanum paludosum</i> Moric.	Landim 160 (ASE)	Shrub
<i>Solanum paniculatum</i> L.	Nascimento-Júnior 889 (ASE)	Shrub
<i>Solanum polytrichum</i> Moric.	Amorim 3464 (CEPEC)	Shrub
<i>Solanum rupicola</i> Sendtn.	Viana 1266 (ASE)	Herb
<i>Solanum stipulaceum</i> Willd. ex Roem. & Schult.	Ramos 77 (ASE)	Shrub
TRIGONIACEAE		
<i>Trigonia nivea</i> var. <i>nivea</i> Cambess.	Mattos-Silva 3018 (ASE)	Tree
TURNERACEAE		
<i>Piriqueta duarteana</i> var. <i>duarteana</i> (Cambess.) Urb.	Jardim 326 (CEPEC)	Herb
<i>Piriqueta guianensis</i> N.E. Br.	Campos 121 (ASE)	Herb
<i>Piriqueta viscosa</i> Griseb.	Ramos 17 (ASE)	Herb
<i>Turnera coerulea</i> DC.	Hatschbach 63198 (CEPEC)	Herb
<i>Turnera coerulea</i> Sessé & Moc. ex DC.	Nascimento-Júnior 1102 (ASE)	Herb
<i>Turnera hermannioides</i> Cambess.	Silva 2979 (CEPEC)	Herb
<i>Turnera melochioides</i> A. St.-Hil. & Cambess.	Fonseca 487 (ASE)	Herb
<i>Turnera pumilea</i> L.	Ramos 7354 (ASE)	Herb
<i>Turnera subulata</i> Sm.	Nascimento-Júnior 784 (ASE)	Herb
<i>Turnera ulmifolia</i> L.	Landim 572 (ASE)	Shrub
URTICACEAE		
<i>Cecropia pachystachya</i> Trécul	Oliveira, E.V.S. 32 (ASE)	Tree
<i>Urtica dioica</i> Vell.	Oliveira 436 (ASE)	Shrub
VELLOZIACEAE		
<i>Vellozia dasypus</i> Seub.	Nascimento-Júnior 767 (ASE)	Herb
<i>Vellozia</i> sp.	Farinaccio 849 (ASE)	Herb
VERBENACEAE		
<i>Lippia alba</i> (Mill.) N.E.Br.	Oliveira, D.M. 93 (ASE)	Herb
<i>Ghinia spicata</i> (Aubl.) Moldenke	Sant'Ana 386 (CEPEC)	Herb
<i>Lantana caatingensis</i> Moldenke	Souza 23 (ASE)	Herb
<i>Lantana camara</i> L.	Nascimento-Júnior 872 (ASE)	Shrub
<i>Lantana canescens</i> Kunth	Nascimento-Júnior 1077 (ASE)	Shrub
<i>Lantana fucata</i> Lindl.	Souza 24 (ASE)	Shrub
<i>Lantana lucida</i> Schauer	Landim 390 (ASE)	Shrub
<i>Lantana radula</i> Sw.	Prata 3130 (ASE)	Shrub
<i>Lantana salzmannii</i> Schauer	Sena-Filho 1 (HUEFS)	Herb
<i>Lippia alnifolia</i> Mart. & Schauer	sdSena-Filho 4 (HUEFS)	Herb
<i>Lippia triplinervis</i> Gardner	Farney 2682 (ASE)	Shrub
<i>Priva bahiensis</i> A.DC.	Nascimento-Júnior 1107 (ASE)	Herb
<i>Stachytarpheta angustifolia</i> (Mill.) Vahl	Carneiro 398 (ASE)	Herb
<i>Stachytarpheta cayennensis</i> (Rich.) Vahl	Almeida 11 (ASE)	Shrub
<i>Stachytarpheta maximiliani</i> Schauer	Amorim 3461 (HUESF)	Shrub
<i>Stachytarpheta microphylla</i> Walp.	Nascimento-Júnior 718 (ASE)	Herb
<i>Tamonea juncea</i> Schauer	Amorim 1534 (CEPEC)	Herb
VIOLACEAE		
<i>Hybanthus arenarius</i> Ule	Landim 1514 (ASE)	Herb

TABLE 1. CONTINUED.

FAMILIES/SPECIES	VOUCHER	HABIT
<i>Hybanthus calceolaria</i> (L.) Oken	Ramos 97 (ASE)	Herb
VITACEAE		
<i>Cissus erosa</i> Rich.	Landim 396 (ASE)	Climber
<i>Cissus paulliniifolia</i> Vell.	Fonseca S/N (RB)	Climber
<i>Cissus pinnatifolia</i> Lombardi	Sousa 370 (CEPEC)	Climber
VOCHYSIACEAE		
<i>Vochysia lucida</i> C.Presl	Sant'Ana 397 (CEPEC)	Tree
XYRIDACEAE		
<i>Xyris capensis</i> Thunb.	Farias 150 (ASE)	Herb
<i>Xyris ciliata</i> Thunb.	Carregosa-Silva 119 (ASE)	Herb
<i>Xyris jupicai</i> Rich.	Alves 2051 (CEPEC)	Herb
<i>Xyris savanensis</i> Miq.	Souza 28 (ASE)	Herb

TABLE 2. Comparison between results from studies on the flora of restingas in the Brazilian Northeast Region. \* = Works which comprise surveys of more than just one study area.

STATE	No. OF SPECIES	No. OF FAMILIES	REFERENCE
MA	260	76	Cabral - Freire & Monteiro, 1993
PI	213	53	Santos Filho, 2009*
CE	392	41	Santos-Filho <i>et al.</i> , 2011*
CE	87	39	Matias & Nunes, 2001
RN	64	29	Almeida Jr. & Zickel, 2009
RN	264	78	Freire, 1990
PE	124	55	Sacramento <i>et al.</i> , 2007
PE	187	71	Almeida Jr. <i>et al.</i> , 2009
PE	104	54	Silva <i>et al.</i> , 2008
PE	112	43	Almeida Jr. <i>et al.</i> , 2007
PE	47	20	Leite & Andrade, 2003
SE	831	124	This study*
BA	109	48	Queiroz, 2007

The genus *Myrcia* also appears among the most representative genera in areas of *restinga* in works performed by Almeida Jr. *et al.* (2007; 2009), both conducted in Pernambuco state. However, *Myrcia* does not appear among the most abundant genera in the *restingas* of Ceará state (Santos-Filho *et al.* 2011). The lack of similar works in other Brazilian states precludes an adequate interpretation of these results.

The floristic list found in this study showed a great species richness in the *restingas* of Sergipe. In fact, the number of species and families listed for the *restingas* of Sergipe was higher than that found in other studies conducted in *restingas* in the Northeast (Table 2), which can be explained, at least in part, by the greater territorial area comprised by this study. However, only 392 species (about 47% of those found in the present study) were found in a recent review of the *restingas* of Ceará (Santos-Filho *et al.* 2011), a state that has a coastline of 578 km (Morais *et al.* 2006), more than three times the Sergipe's coastline. This discrepancy may be related to factors such as geomorphology (extension of the coastal plain towards the inland and the diversity of the features present), diversity of vegetation types and conservation status of these areas.

The large number of herbaceous and shrub species found in *restingas* of Sergipe may reflect the predominance of herbaceous and shrubby phytophysiognomies, but

this should be the subject of further studies aiming to characterise and to map the vegetation types present in these areas.

In a survey conducted in areas of *restinga* in the Ceará state, most of the species found also belonged to the herbaceous stratum (Santos-Filho *et al.* 2011). The significance of herbaceous species in areas of *restinga* reflects the pioneer characteristic of the vegetation of this ecosystem (Santos-Filho *et al.* 2011), adapted to local adverse environmental conditions.

Shrubs (nanophanerophytes) had greater prominence in Pipa Beach, Rio Grande do Norte (Almeida Jr. and Zickel 2009), when compared with all life forms found. This fact may be explained by the local existence of broader sandy plains, reaching regions more distant from the highest tide line, allowing the greater development of woody vegetation (Almeida Jr. and Zickel 2009).

Surprisingly, the arboreal habit in the *restingas* of Sergipe, was slightly less frequent than the herbaceous and shrub habits. This may indicate the existence of areas of *restinga* forests and/or fixed dunes with shrub and tree cover. These areas, for their rarity and fragility, due to increasing occupation of coastal areas, should be the object of further study and conservation.

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