

# Floristic composition in areas of Caatinga and Brejo de Altitude in Sergipe state, Brazil

Wedna de Jesus Machado<sup>1\*</sup>, Ana Paula do Nascimento Prata<sup>2</sup> and Anabel Aparecida de Mello<sup>3</sup>

1 Universidade Federal de Sergipe, Núcleo de Pós-Graduação em Ecologia e Conservação. Avenida Marechal Rondon, s/nº, Jardim Rosa Elze. CEP 49100-000. São Cristóvão, SE, Brasil.

2 Universidade Federal de Sergipe, Departamento de Biologia. Avenida Marechal Rondon, s/nº, Jardim Rosa Elze. CEP 49100-000. São Cristóvão, SE, Brasil.

3 Universidade Federal de Sergipe, Departamento de Ciências Florestais. Avenida Marechal Rondon, s/nº, Jardim Rosa Elze. CEP 49100-000. São Cristóvão, SE, Brasil.

\* Corresponding author. E-mail: [wednamachado@gmail.com](mailto:wednamachado@gmail.com)

**ABSTRACT:** The purpose of this study was to characterize the vegetation of the Serra da Guia, Sergipe state, Brazil, through the floristic survey of two areas, one located at the base (Caatinga - 09°58'09"S, 37°51'52"W) and the other at the top of the mountain (Brejo de Altitude - 09°58'55"S, 37°52'06"W), with systematic monthly collections from October 2009 to September 2010. We sampled 416 species (88 families): 238 species (60 families) in the area of Caatinga and 284 species (76 families) in the Brejo. In the Caatinga, families with higher species richness were Fabaceae (32) and Euphorbiaceae (17), while in the Brejo, these were Fabaceae (25) and Poaceae (19). The Serra da Guia is the first Brejo de Altitude described and studied in the Sergipe state, and analysis of the floristic composition of plant communities in the Caatinga and the Brejo has shown that these formations have very different characteristics and high biodiversity.

## INTRODUCTION

The Caatinga is the type of vegetation that covers most of the area with semi-arid climate northeastern Brazil (Giulietti *et al.* 2003) and is characterized by being the only Brazilian region with limits restricted entirely to the national territory (Leal *et al.* 2003). Although quite altered by human action, the region stands out because of its wide diversity of plant species, many of which are endemics to the biome and have adaptations to withstand water stress (Giulietti *et al.* 2003).

The Caatinga can be characterized as a forest tree or shrub biome, comprising mainly low individuals, most often equipped with spines, small leaves and some xerophytic characteristics (Prado 2003). Such attributes are related to conditions of semi-aridity originated by irregular rain and bad distribution of rainfall, with consequences such as low atmospheric humidity and pedological dryness, that determine a strictly poor ecological environment (Fernandes 2006).

Inserted in the Caatinga biome, in places of higher altitude, we can find enclaves of Atlantic Forest, known as Brejos de Altitude or Matas Serranas, that according to Theulen (2004), configure the core areas of significant importance to the preservation of biodiversity, whether by their uniqueness and rarity, or their many natural attributes, in particular the natural diversity of species.

According to Locatelli *et al.* (2004), the environments of the Brejos de Altitude are isolated from the Atlantic Forest and Caatinga, having a typical biota, consisting of a pool of species common to both the Atlantic and Amazonian forests, including endemic species.

The purpose of this study was to characterize the vegetation of the Serra da Guia, located in Poço Redondo, Sergipe state, Brazil, through the floristic survey of two areas, one located at the base of the mountain (Caatinga)

and the other at the top of the mountain (Brejo de Altitude).

## MATERIALS AND METHODS

The Serra da Guia (09°58' S, 37°52' W), the highest point in the Sergipe state (750 meters above sea level), is part of the Serra Negra Complex and is located on the border of the cities of Poço Redondo (Sergipe state) and Pedro Alexandre (Bahia state) (Figure 1A). It is completely surrounded by semi-arid vegetation, with an exuberant forest on the top and slopes with native Caatinga vegetation in the depressions and foothills. The climate of the region is semi-arid and the average rainfall is about 650 mm/year, with very irregular rain that is mostly concentrated between the months of May and July.

Was conducted a floristic survey of the trees, shrubs and herbaceous vegetation of the Serra da Guia, with systematic monthly collections during the period of one year (October 2009 to September 2010) in two areas, one located at the base (Caatinga) and the other at the top of the mountain (Brejo de Altitude).

The collections of fertile botanical material were made on pre-existing tracks and 30 fixed plots of 20 x 20 m, totaling 1.2 ha, installed in the sampling areas of Caatinga and Brejo (15 plots in each area). The plots installed in the area of Caatinga (09°58'09" S, 37°51'52" W) ranged between 400-450 meters of altitude, and the plots installed in the area of Brejo de Altitude (09°58'55" S, 37°52'06" W) ranged between 700-750 meters of altitude. The straight-line distance between the sampled areas was 1.5 km (Figure 1B). The morphological characteristics considered relevant to the recognition of species were written in a field notebook and specimens were photographed.

The altitude of the region of occurrence of the Caatinga biome varies from 0 to 600 m (Maracajá and Benevides

2006) and Brejos de Altitude are generally greater than 600 m (Borges-Najosa and Caramaschi 2003). This information was used in this study as a criterion to determine the habitat of the species identified. Thus, we established that all botanical material collected up to 600 meters above the sea level would be classified as belonging to the flora of the Caatinga, and above that as part of the flora of the Brejo de Altitude.

The botanical material was collected according to the usual standards for taxonomy suggested by Mori *et al.* (1989), seeking to include the variability found in populations. The material was pressed while still in the field, and then herborized and incorporated into the collection of the Herbarium of the Federal University of Sergipe (ASE), where it was identified by means of specialized bibliography, taxonomic keys, comparison with material from the collection of the Herbaria ASE and MAC and sent to specialists. The acronyms of the institutions are in agreement with Thiers [continuously updated].

The classification system adopted for the Angiosperms

was Angiosperm Phylogeny Group III - APG III (Chase and Reveal 2009). For the Pteridophytes, the classification system adopted was according to Tryon and Tryon (1982). The spelling, authorship of the species and updating of scientific names were verified after consulting the literature and the site of the Missouri Botanical Garden's VAST (VAScular Tropicos) nomenclatural database - W3 Tropicos (2006) and of the List of Species of the Brazilian Flora (2011).

The floristic list was prepared in accordance with the Angiosperm Phylogeny Group III - APG III (Chase and Reveal 2009) and the families are listed in alphabetical order. In addition, information is provided on popular name, habitat and habits (Eiten 1992) of each species. We also compared the species referred to in this study with the lists of species endemic to the Caatinga (Giulietti *et al.* 2002; Cardoso and Queiroz 2007) and to the Atlantic Forest (Stehmann *et al.* 2009), as well as threatened (IBAMA 1992; Biodiversitas 2005; MMA 2008; IUCN 2010), rare (Giulietti *et al.* 2009) and invasive (Lowe *et al.* 2000; GISD 2010; Horus Institute 2010) species.



**FIGURE 1.** Serra da Guia, Poço Redondo, Sergipe state, Brazil: A. Partial view of the Serra da Guia. B. Location of sampling points in the Digital Elevation Model.

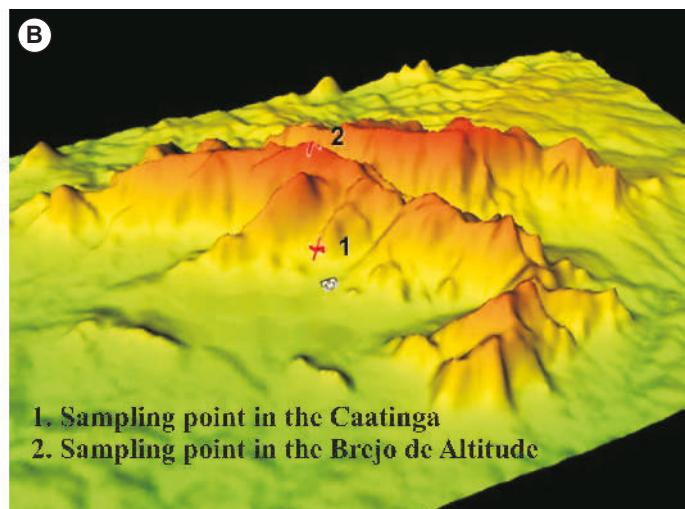
## RESULTS AND DISCUSSION

The Serra da Guia in Poço Redondo, Sergipe state, is characterized by presenting at its top a medium sized semi-deciduous vegetation, in which the component tree reaches a height of 17 m, embedded in a hyperxerophilous Caatinga matrix.

Tables 1 and 2 list the species occurring in the study area, with information on habitat, habit and category extinction. In the floristic survey we sampled 825 specimens belonging to 416 species, 252 genera and 88 botanical families.

Among the species occurring in the study area, 411 were Angiosperms (309 eudicots, 96 monocots and 6 magnoliids) – which corresponds to approximately 66% of the total inventory for the phytogeographical area of Caatinga in the Sergipe state, according to data taken from the list of species of Flora of Brazil (2011) – and five were Pteridophytes (*Anemia oblongifolia*, *Asplenium pumilum*, *Hemionitis palmata*, *Salvinia cf. oblongifolia* and *Serpocaulon triseriale*).

The richest families were Fabaceae (42 species: 12



Caesalpinoideae, 13 Mimosoideae, 17 Papilioideae), Poaceae (27 species), Euphorbiaceae (24 species), Asteraceae (23 species), Cyperaceae (19 species), Orchidaceae and Rubiaceae (18 species each), Malvaceae (15 species), Myrtaceae (13 species) and Bromeliaceae (12 species).

The genera richest in species were *Croton* (Euphorbiaceae) with nine species (*C. argyrophyllus*, *C. heliotropifolius*, *C. cf. pedicellatus*, *C. tetradenius*, *C. tricolor*, *C. urticifolius*, *Croton* sp. 1, *Croton* sp. 2 and *Croton* sp. 3) followed by *Cyperus* (Cyperaceae) and *Polygala* (Polygalaceae) with seven species each (*C. aggregatus*, *C. distans*, *C. haspan*, *C. squarrosum*, *C. surinamensis*, *C. uncinulatus* and *Cyperus* sp.; *P. boliviensis*, *P. decumbens*, *P. glochidiata*, *P. paniculata*, *P. spectabilis*, *P. violacea* and *Polygala* sp.).

As for the habit, it was found that 76 species (18.3%) were trees, 66 (15.9%) shrubs, 30 (7.2%) subshrubs, 194 (46.6%) herbs, 45 (10.8%) climbers and five (1.2%) lianas.

Was observed for the area of Caatinga the occurrence of 238 species, 162 genera and 60 families, and for the area of

Brejo de Altitude, 284 species, 195 genera and 76 families. A total of 110 species (39 families) were observed in both areas, 174 species were unique to the Brejo de Altitude and 128 species unique to the Caatinga. In addition, 14 families were found exclusively in the Caatinga and 28 in the Brejo, with most being represented by a single species.

The more significant families in the Caatinga were Fabaceae (32 species: 10 Caesalpinoideae, 11 Mimosoideae and 11 Papilioideae), Euphorbiaceae (17 species), Rubiaceae (13 species), Asteraceae (12 species), Convolvulaceae and Malvaceae (10 species each), Orchidaceae (nine species), Poaceae (eight species) and Bignoniaceae, Malpighiaceae, Myrtaceae and Verbenaceae (seven species each) (Figure 2). The most significant genera were *Croton* (six species), *Ipomoea* and *Senna* (five species each) and *Euphorbia*, *Mimosa*, *Polygala* and *Solanum* (four species each).

Fabaceae and Euphorbiaceae are highly represented in surveys in different physiognomies of the Caatinga (Souza 1983, unpublished data; Drumon et al. 2002; Santana and Souto 2006; Carvalho et al. 2007; Ferreira et al. 2007; Fabricante and Andrade 2007; Calixto Jr. et al. 2009; Ferraz 2009, unpublished data), confirming the results obtained in this study.

For the Brejo de Altitude the main families were Fabaceae (25 species: eight Caesalpinoideae, seven Mimosoideae and 10 Papilioideae), followed by Poaceae (19 species), Asteraceae (18 species), Cyperaceae (15 species), Euphorbiaceae (14 species), Orchidaceae (13 species), Rubiaceae (12 species), Bromeliaceae (10 species), Myrtaceae and Malvaceae (nine species each) and Bignoniaceae and Polygalaceae (seven species each) (Figure 2). Regarding genera, the main ones were *Croton* (seven species), *Cyperus* (six species), *Polygala* (five species) and *Senna* and *Tillandsia* (four species each).

In other surveys conducted in Brejos de Altitude, Fabaceae also stood out as the richest family, followed by Myrtaceae (Ferraz et al. 1998; Moura and Sampaio 2001), Rubiaceae (Barbosa et al. 2004) or Asteraceae and Euphorbiaceae (Rodal et al. 2005).

By comparing the floristic lists obtained from this study with the lists of species endemic to the Caatinga and the Atlantic Forest, as well as threatened, rare and invasive species, we found 35 species endemic to the Caatinga, of which 17 were also observed in tracks or in areas of rocky outcrops of the Brejo, and three of these (*Cynophalla flexuosa*, *Neocalyptrocalyx longifolium* and *Guettarda angelica*) within the Brejo de Altitude; nine species endemic to the Atlantic Forest, with six of these found in an area of Caatinga; six threatened species: *Myracrodruon urundeuva* and *Schinopsis brasiliensis* (Anacardiaceae), *Catasetum uncatum* (Orchidaceae) and *Simaba floribunda* (Simaroubaceae) occurred in both areas, and *Campomanesia aromatic* (Myrtaceae) and *Cattleya labiata* (Orchidaceae) occurred exclusively in the Brejo; and 11 invasive species, two of which occurred only in the Caatinga, four exclusively in the Brejo and five were seen in both areas (Table 1).

The Serra da Guia is configured as the first Brejo de Altitude described and studied in the Sergipe state, and analysis of the floristic composition of plant communities in the Caatinga and the Brejo showed that, although they are adjacent to one another, these formations have very different characteristics.

The results of this study, added to several wildlife inventories conducted in the region (Caldas et al. 2009; Ruiz-Esparza Aguilar 2010, unpublished data; Rocha 2010, unpublished data), indicate the Serra da Guia as an area of high biodiversity and unique in the Sergipe state, showing the need for ongoing research in this region and for the implementation of a conservation area.

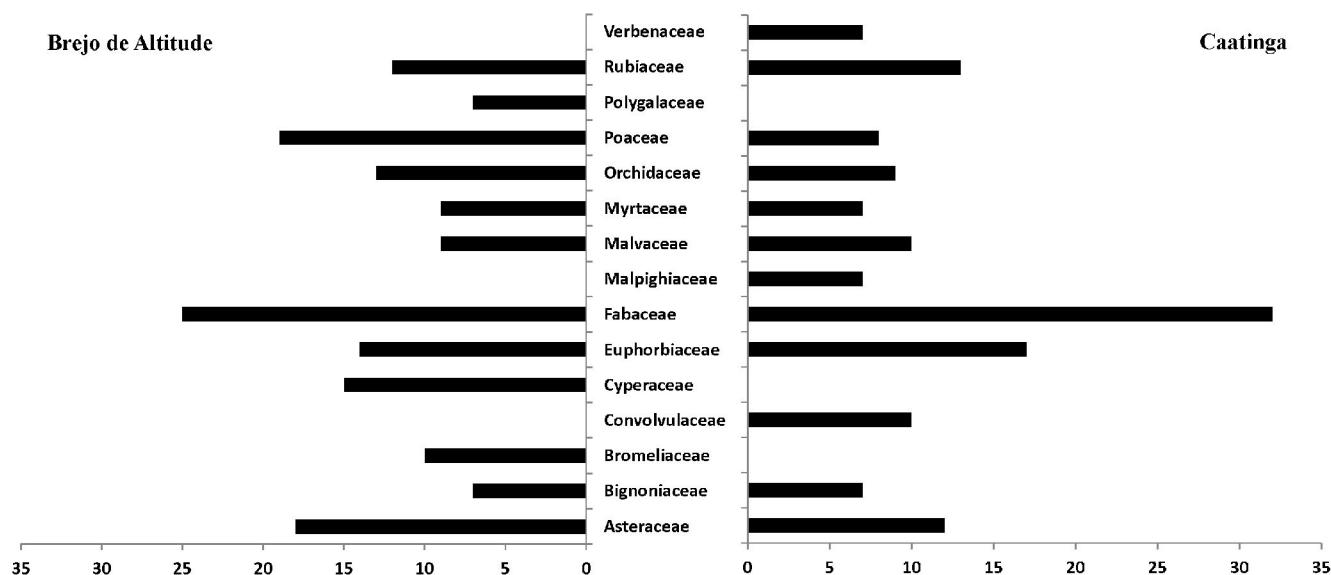


FIGURE 2. The richest botanical families in the areas of Brejo de Altitude and Caatinga in the Serra da Guia, Poço Redondo, Sergipe state, Brazil.

**TABLE 1.** List of families and species of Angiosperms of the Serra da Guia, Poço Redondo, Sergipe state, Brazil, with their vouchers (ASE), collectors (name and number), popular names, habitats, habits and categories extinction. Collector: C: Costa, S.M.; F: Farinaccio, M.A.; L: Lemos, I.C.; M: Machado, W.J.; Me: Menezes, I.R.N.; P: Prata, A.P.; S: Santos, L.A.S.; Sa: Santos, R.B. Habitat: B: Brejo de Altitude; C: Caatinga. Habit: Tre: tree; Shr: Shrub; Ssh: subshrub; Her: herb; Cli: climber; Lia: liana. Category: ECa: endemic to the Caatinga; EAF: endemic to the Atlantic Forest; Thr: threatened; Inv: invasive. \* species observed in the study site, but not collected due to the difficult access to their individuals.

| FAMILY/SPECIES   | VOUCHER | COLLECTOR | POPULAR NAME         | HABITAT | HABIT | CATEGORY |
|--|---------|-----------|----------------------|---------|-------|----------|
| <b>Acanthaceae</b>   |         |           |                      |         |       |          |
| <i>Ruellia bahiensis</i> (Ness) Morong                           | 15816   | M 01      | folha-de-mocó        | B/C     | Her   | -        |
| <b>Alstroemeriaceae</b>  |         |           |                      |         |       |          |
| <i>Alstroemeria</i> sp.  | 16002   | M 11      | -                    | B       | Her   | -        |
| <i>Bomarea edulis</i> (Tussac) Herb.                             | 9047    | C 107     | -                    | B       | Her   | -        |
| <b>Amaranthaceae</b>   |         |           |                      |         |       |          |
| <i>Alternanthera tenella</i> Colla                               | 16025   | M 34      | erva-de-ovelha       | B/C     | Her   | Inv      |
| <i>Amaranthaceae</i> sp.   | 16743   | M 160     | -                    | B/C     | Her   | -        |
| <b>Amaryllidaceae</b>  |         |           |                      |         |       |          |
| <i>Hippeastrum stylosum</i> Herb.                                | 16022   | M 31      | -                    | B       | Her   | -        |
| <i>Zephyranthes</i> sp.  | 16695   | M 112     | cebola-da-terra      | C       | Her   | -        |
| <b>Anacardiaceae</b>   |         |           |                      |         |       |          |
| <i>Anacardium occidentale</i> L.                                 | 20070   | M 799     | cajueiro             | B       | Tre   | -        |
| <i>Myracrodruon urundeuva</i> Allemão                            | 20088   | M 915     | aoeira               | B/C     | Tre   | Thr      |
| <i>Schinopsis brasiliensis</i> Engl.                             | 20333   | M 1091    | braúna               | B/C     | Tre   | Thr      |
| <b>Annonaceae</b>  |         |           |                      |         |       |          |
| <i>Annona vepretorum</i> Mart.                                   | 16135   | M 95      | Araticun-zeiro       | C       | Tre   | ECa      |
| <b>Apiaceae</b>  |         |           |                      |         |       |          |
| <i>Spananthe paniculata</i> Jacq.                                | 19935   | M 664     | -                    | B       | Her   | -        |
| <b>Apocynaceae</b>   |         |           |                      |         |       |          |
| <i>Allamanda blanchetii</i> A.DC.                                | 17553   | M 276     | -                    | B/C     | Cli   | ECa      |
| <i>Aspidosperma pyrifolium</i> Mart.                             | 20040   | M 769     | pereiro              | C       | Tre   | ECa      |
| <i>Mandevilla microphylla</i> (Stadelm.) M.F.Sales and Kin-Gouv. | 16117   | M 77      | -                    | B/C     | Cli   | -        |
| <i>Marsdenia altissima</i> (Jacq.) Dugand                        | 19509   | F 798     | -                    | B       | Lia   | -        |
| <i>Matelea ganglinosa</i> (Vell.) Rapini                         | 20060   | M 789     | maria-da-corta       | B/C     | Lia   | -        |
| <i>Prestonia coalita</i> (Vell.) Woodson                         | 16041   | M 50      | -                    | B/C     | Cli   | -        |
| <i>Skytanthus hancorniifolius</i> (A. DC.) Miers                 | 16763   | M 183     | -                    | B/C     | Shr   | -        |
| <b>Araceae</b>   |         |           |                      |         |       |          |
| <i>Anthurium affine</i> Schott                                   | 16774   | M 194     | santo-inácio         | B       | Her   | -        |
| <i>Anthurium</i> sp.   | 18644   | M 438     | -                    | B       | Her   | -        |
| <i>Philodendron</i> sp.  | 17566   | M 289     | comigo-ninguém-pode  | B/C     | Her   | -        |
| <i>Pistia stratiotes</i> L.                                      | 20062   | M 791     | orelha-de-burro      | C       | Her   | Inv      |
| <b>Arecaceae</b>   |         |           |                      |         |       |          |
| <i>Syagrus coronata</i> (Mart.) Becc.                            | 18625   | M 419     | licuri               | B/C     | Shr   | -        |
| <b>Aristolochiaceae</b>  |         |           |                      |         |       |          |
| <i>Aristolochia</i> sp.  | 19864   | M 593     | jarrinha             | C       | Her   | -        |
| <b>Asteraceae</b>  |         |           |                      |         |       |          |
| <i>Acmella</i> sp.   | 18721   | M 516     | -                    | B/C     | Her   | -        |
| <i>Ageratum conyzoides</i> L.                                    | 19846   | M 575     | mentrasto            | B/C     | Her   | Inv      |
| <i>Bidens pilosa</i> L.  | 19814   | M 543     | carrapicho-de-agulha | B/C     | Her   | Inv      |
| <i>Centratherum punctatum</i> Cass.                              | 18670   | M 465     | -                    | B/C     | Ssh   | -        |
| <i>Chromolaena cf. odorata</i> (L.) R.M.King and H.Rob.          | 19947   | M 676     | -                    | B       | Ssh   | Inv      |
| <i>Delilia biflora</i> (L.) Kuntze                               | 16101   | M 61      | -                    | B       | Her   | -        |
| <i>Emilia fosbergii</i> Nicolson                                 | 19843   | M 572     | -                    | B/C     | Her   | -        |
| <i>Emilia sonchifolia</i> (L.) DC. ex Wight                      | 18669   | M 464     | -                    | B       | Her   | -        |
| <i>Lourteigia cf. ballotifolia</i> (Kunth) R.M.King and H.Rob.   | 19817   | M 546     | balaio-de-velho      | B/C     | Her   | -        |
| <i>Platypodanthera melissifolia</i> (DC.) R.M.King and H.Rob.    | 19823   | M 552     | -                    | C       | Her   | -        |
| <i>Pterocaulon virgatum</i> (L.) DC.                             | 19927   | M 656     | -                    | B       | Her   | -        |
| <i>Tridax procumbens</i> L.                                      | 16756   | M 173     | -                    | C       | Her   | -        |
| <i>Verbesina macrophylla</i> (Cass.) S.F.Blake                   | 15998   | M 07      | fumo-bravo           | B       | Shr   | -        |
| <i>Vernonia</i> sp. 1  | 18652   | M 446     | carabina             | B/C     | Her   | -        |
| <i>Vernonia</i> sp. 2  | 16782   | M 202     | -                    | C       | Ssh   | -        |
| <i>Vernonia</i> sp. 3  | 15779   | C 627     | -                    | B       | Shr   | -        |
| <i>Vernonia</i> sp. 4  | 20037   | M 766     | -                    | C       | Shr   | -        |
| <i>Vernonia</i> sp. 5  | 16011   | M 20      | -                    | B       | Her   | -        |
| <i>Wedelia cf. alagoensis</i> Baker                              | 16031   | M 40      | rosa-brava           | B       | Her   | -        |

**TABLE 1. CONTINUED.**

| FAMILY/SPECIES  | VOUCHER | COLLECTOR | POPULAR NAME        | HABITAT | HABIT | CATEGORY |
|---|---------|-----------|---------------------|---------|-------|----------|
| <i>Wedelia</i> sp.  | 15768   | C 616     | rosa-brava          | B       | Her   | -        |
| Asteraceae sp. 1  | 16908   | M 222     | -                   | B       | Ssh   | -        |
| Asteraceae sp. 2  | 19955   | M 684     | -                   | C       | Cli   | -        |
| Asteraceae sp. 3  | 19844   | M 573     | -                   | B       | Her   | -        |
| <b>Begoniaceae</b>  |         |           |                     |         |       |          |
| <i>Begonia convolvulacea</i> (Klotzsch) A.DC.                     | 16000   | M 09      | cansanção-de-mocó   | B       | Her   | EAF      |
| <b>Bignoniaceae</b>   |         |           |                     |         |       |          |
| <i>Anemopaegma</i> sp. 1  | 16104   | M 64      | cipó-branco         | C       | Cli   | -        |
| <i>Anemopaegma</i> sp. 2  | 16732   | M 149     | -                   | B/C     | Cli   | -        |
| <i>Dolichandra quadrivalvis</i> (Jacq.) L.G.Lohmann               | 16760   | M 177     | -                   | C       | Cli   | ECa      |
| <i>Handroanthus impetiginosus</i> Mattos                          | 16105   | M 65      | pau-d'arco-roxo     | B/C     | Tre   | -        |
| <i>Handroanthus</i> sp. 1   | 20327   | M 1085    | pau-d'arco-amarelo  | B       | Tre   | -        |
| <i>Handroanthus</i> sp. 2   | 20330   | M 1088    | pau-d'arco-branco   | B/C     | Tre   | -        |
| <i>Jacaranda</i> sp. 1  | 20328   | M 1086    | caroba              | B       | Tre   | -        |
| <i>Jacaranda</i> sp. 2  | 16720   | M 137     | -                   | C       | Tre   | -        |
| Bignoniaceae sp. 1  | 16755   | M 172     | -                   | B       | Cli   | -        |
| Bignoniaceae sp. 2  | 20086   | M 913     | -                   | C       | Cli   | -        |
| Bignoniaceae sp. 3  | 18650   | M 444     | -                   | B       | Cli   | -        |
| <b>Bixaceae</b>   |         |           |                     |         |       |          |
| <i>Cochlospermum vitifolium</i> (Willd.) Spreng.                  | 20053   | M 782     | algodão-de-seda     | B/C     | Tre   | -        |
| <b>Boraginaceae</b>   |         |           |                     |         |       |          |
| <i>Cordia latiloba</i> I.M.Johnst.                                | 19894   | M 623     | claraíba            | B       | Tre   | EAF      |
| <i>Heliotropium indicum</i> L.                                    | 16757   | M 174     | crista-de-galo      | C       | Her   | -        |
| <i>Heliotropium</i> sp.   | 16092   | M 52      | amarra-cachorro     | B/C     | Shr   | -        |
| <i>Tournefortia rubicunda</i> Salzm. ex A.DC.                     | 16893   | M 207     | canudeiro           | B/C     | Shr   | -        |
| <b>Bromeliaceae</b>   |         |           |                     |         |       |          |
| <i>Aechmea aquilega</i> (Salisb.) Griseb.                         | 20322   | M 1080    | gravatá             | B/C     | Her   | -        |
| <i>Aechmea lingulata</i> (L.) Baker                               | 16030   | M 39      | gravatá             | B/C     | Her   | -        |
| <i>Cryptanthus</i> cf. <i>bahianus</i> L.B.Sm.                    | 18630   | M 424     | -                   | B       | Her   | -        |
| <i>Encholirium spectabile</i> Mart. ex Schult. and Schult.f.      | *       | *         | macambira-de-flecha | B/C     | Her   | ECa      |
| <i>Hohenbergia catingae</i> Ule                                   | 18622   | M 416     | -                   | B/C     | Her   | ECa      |
| <i>Neoglaziovia variegata</i> (Arruda) Mez                        | 16707   | M 124     | craoá               | C       | Her   | ECa      |
| <i>Orthophytum</i> sp.  | 19922   | M 651     | macambira-de-cabeça | C       | Her   | -        |
| <i>Tillandsia polystachia</i> (L.) L.                             | 15787   | C 635     | -                   | B       | Her   | -        |
| <i>Tillandsia stricta</i> Sol.                                    | 20049   | M 778     | -                   | B       | Her   | -        |
| <i>Tillandsia tenuifolia</i> L.                                   | 8720    | C 106     | -                   | B       | Her   | -        |
| <i>Tillandsia usneoides</i> (L.) L.                               | 19863   | M 592     | -                   | B       | Her   | -        |
| <i>Vriesea</i> sp.  | 20321   | M 1079    | -                   | B       | Her   | -        |
| <b>Burseraceae</b>  |         |           |                     |         |       |          |
| <i>Commiphora leptophloeos</i> (Mart.) J.B.Gillett                | 16140   | M 100     | imburana-de-cambão  | C       | Tre   | ECa      |
| <b>Cactaceae</b>  |         |           |                     |         |       |          |
| <i>Cereus jamacaru</i> DC.  | 17565   | M 288     | mandacaru           | B/C     | Ssh   | ECa      |
| <i>Melocactus ernestii</i> Vaupel subsp. <i>ernestii</i>          | 16114   | M 74      | cabeça-de-frade     | B/C     | Her   | ECa      |
| <i>Melocactus zehntneri</i> (Britton and Rose) Luetzelb.          | 9265    | L 82      | cabeça-de-frade     | B/C     | Her   | ECa      |
| <i>Pilosocereus catingicola</i> (Gürke) Byles and Rowley          | 15341   | M 178     | facheiro            | B/C     | Ssh   | -        |
| <i>Pilosocereus</i> sp.   | 18687   | M 482     | facheiro            | B/C     | Ssh   | -        |
| <i>Rhipsalis floccosa</i> Salm-Dyck ex Pfeiff.                    | 16736   | M 153     | -                   | B       | Her   | -        |
| <i>Tacinga palmadora</i> (Britton and Rose) N.P.Taylor and Stuppy | 19923   | M 652     | quipá               | C       | Her   | ECa      |
| <b>Cannabaceae</b>  |         |           |                     |         |       |          |
| <i>Celtis iguanaea</i> (Jacq.) Sarg.                              | 16740   | M 157     | Joameiri-nho        | B       | Tre   | -        |
| <b>Cannaceae</b>  |         |           |                     |         |       |          |
| <i>Canna</i> sp.  | 18680   | M 475     | -                   | B       | Her   | -        |
| <b>Capparaceae</b>  |         |           |                     |         |       |          |
| <i>Cynophalla flexuosa</i> (L.) J.Presl                           | 16138   | M 98      | feijão-bravo        | B/C     | Tre   | ECa      |
| <i>Neocalyptroclyx longifolium</i> (Mart.) Cornejo and Iltes      | 16689   | M 106     | icó                 | B/C     | Tre   | ECa      |
| <i>Neocalyptroclyx nectarea</i> (Vell.) Hutch.                    | 19965   | M 694     | -                   | B       | Tre   | -        |
| <b>Celastraceae</b>   |         |           |                     |         |       |          |
| <i>Maytenus rigida</i> Mart.                                      | 16688   | M 105     | bonome              | C       | Tre   | ECa      |
| <i>Maytenus</i> sp.   | 20065   | M 794     | bonome-da-mata      | B       | Tre   | -        |

**TABLE 1. CONTINUED.**

| FAMILY/SPECIES  | VOUCHER | COLLECTOR | POPULAR NAME        | HABITAT | HABIT | CATEGORY |
|---|---------|-----------|---------------------|---------|-------|----------|
| <b>Cleomaceae</b>                                       |         |           |                     |         |       |          |
| <i>Cleome lanceolata</i> (Mart. and Zucc.) Iltis        | 20023   | M 752     | -                   | C       | Her   | -        |
| <b>Clusiaceae</b>                                       |         |           |                     |         |       |          |
| <i>Clusia dardanoi</i> G.Mariz and Maguire              | 16029   | M 38      | casuçú              | B/C     | Tre   | EAF      |
| <b>Combretaceae</b>                                     |         |           |                     |         |       |          |
| <i>Combretum cf. fruticosum</i> (Loefl.) Stuntz         | 18660   | M 455     | -                   | B       | Shr   | -        |
| <b>Commelinaceae</b>                                    |         |           |                     |         |       |          |
| <i>Commelina erecta</i> L.                              | 16738   | M 155     | água-de-santa-luzia | C       | Her   | -        |
| <b>Convolvulaceae</b>                                   |         |           |                     |         |       |          |
| <i>Cuscuta</i> sp.                                      | 16709   | M 126     | linha-de-bordar     | C       | Her   | -        |
| <i>Evolvulus glomeratus</i> Nees and Mart.              | 16758   | M 175     | -                   | C       | Her   | -        |
| <i>Ipomoea batatooides</i> Choisy                       | 20047   | M 776     | -                   | C       | Cli   | -        |
| <i>Ipomoea brasiliiana</i> (Choisy) Meisn.              | 16014   | M 23      | batata-de-porco     | B/C     | Cli   | ECa      |
| <i>Ipomoea longeramosa</i> Choisy                       | 20072   | M 801     | -                   | C       | Cli   | -        |
| <i>Ipomoea regnellii</i> Meisn.                         | 20059   | M 788     | -                   | C       | Cli   | -        |
| <i>Ipomoea</i> sp.                                      | 19993   | M 722     | -                   | C       | Cli   | -        |
| <i>Jacquemontia evolvoloides</i> (Moric.) Meisn.        | 16009   | M 18      | amarra-pé           | B/C     | Cli   | -        |
| <i>Jacquemontia</i> sp.                                 | 19983   | M 712     | -                   | C       | Cli   | -        |
| <i>Operculina macrocarpa</i> (L.) Urb.                  | 16013   | M 22      | batata-de-purga     | B       | Her   | -        |
| Convolvulaceae sp. 1                                    | 18041   | M 320     | -                   | C       | Cli   | -        |
| <b>Crassulaceae</b>                                     |         |           |                     |         |       |          |
| <i>Kalanchoe pinnata</i> (Lam.) Pers.                   | 20066   | M 795     | -                   | B       | Her   | Inv      |
| <b>Cucurbitaceae</b>                                    |         |           |                     |         |       |          |
| <i>Cayaponia tayuya</i> (Vell.) Cogn.                   | 16113   | M 73      | -                   | C       | Cli   | -        |
| Cucurbitaceae sp. 1                                     | 19918   | M 647     | -                   | B       | Her   | -        |
| Cucurbitaceae sp. 2                                     | 16099   | M 59      | melão-de-cerca      | B/C     | Cli   | -        |
| <b>Cyperaceae</b>                                       |         |           |                     |         |       |          |
| <i>Bulbostylis capillaris</i> (L.) C.B.Clarke           | 18632   | M 426     | -                   | B       | Her   | -        |
| <i>Cyperus aggregatus</i> (Willd.) Endl.                | 18626   | M 420     | -                   | B       | Her   | -        |
| <i>Cyperus distans</i> L.                               | 18679   | M 474     | -                   | B/C     | Her   | -        |
| <i>Cyperus haspan</i> L.                                | 15813   | C 662     | -                   | B       | Her   | -        |
| <i>Cyperus squarrosus</i> L.                            | 8736    | C 95      | -                   | B       | Her   | -        |
| <i>Cyperus surinamensis</i> Rottb.                      | 18639   | M 433     | -                   | B       | Her   | -        |
| <i>Cyperus uncinulatus</i> Schrad. ex Nees              | 8737    | C 97      | -                   | -       | Her   | -        |
| <i>Cyperus</i> sp.                                      | 19893   | M 622     | -                   | B       | Her   | -        |
| <i>Eleocharis elegans</i> (Kunth) Roem. and Schult.     | 19858   | M 587     | -                   | C       | Her   | -        |
| <i>Eleocharis</i> sp.                                   | 15814   | C 663     | -                   | C       | Her   | -        |
| <i>Fimbristylis dichotoma</i> (L.) Vahl                 | 8735    | C 94      | -                   | B       | Her   | -        |
| <i>Fuirena umbellata</i> Rottb.                         | 18637   | M 431     | -                   | B       | Her   | -        |
| <i>Kyllinga odorata</i> Vahl                            | 19915   | M 644     | -                   | B       | Her   | -        |
| <i>Kyllinga squamulata</i> Thonn. ex Vahl               | 19904   | M 633     | -                   | B       | Her   | -        |
| <i>Lipocarpha micrantha</i> (Vahl) G.C.Tucker           | 17331   | Me 167    | -                   | B       | Her   | -        |
| <i>Pycreus fugax</i> (Liebm.) C.D.Adams                 | 9239    | L 72      | -                   | B       | Her   | -        |
| <i>Pycreus macrostachyos</i> (Lam.) J.Raynal            | 19892   | M 621     | -                   | B       | Her   | -        |
| <i>Rhynchospora contracta</i> (Nees) J.Raynal           | 18575   | M 369     | -                   | C       | Her   | -        |
| <i>Scleria reticularis</i> Michx. ex Willd.             | 19877   | M 606     | -                   | B/C     | Her   | EAF      |
| <b>Dioscoreaceae</b>                                    |         |           |                     |         |       |          |
| <i>Dioscorea leptostachya</i> Gardner                   | 19854   | M 583     | -                   | B       | Cli   | -        |
| <i>Dioscorea ovata</i> Vell.                            | 18722   | M 517     | xinin               | C       | Cli   | -        |
| <i>Dioscorea piperifolia</i> Humb. and Bonpl. ex Willd. | 19949   | M 678     | xinin               | B       | Cli   | -        |
| <b>Eriocaulaceae</b>                                    |         |           |                     |         |       |          |
| <i>Paepalanthus myocephalus</i> (Mart.) Körn.           | 19954   | M 683     | -                   | B       | Her   | -        |
| <b>Erythroxylaceae</b>                                  |         |           |                     |         |       |          |
| <i>Erythroxylum revolutum</i> Mart.                     | 20329   | M 1087    | quiri-de-junta      | C       | Tre   | -        |
| <i>Erythroxylum subrotundum</i> A.St.-Hil.              | 16920   | M 234     | varela              | B/C     | Tre   | -        |
| <i>Erythroxylum</i> sp.                                 | 20334   | M 1092    | pau-chorão          | B       | Tre   | -        |
| <b>Euphorbiaceae</b>                                    |         |           |                     |         |       |          |
| <i>Cnidoscolus quercifolius</i> Pohl                    | 16690   | M 107     | favela              | C       | Shr   | -        |
| <i>Cnidoscolus urens</i> (L.) Arthur                    | 8675    | P 1343    | cansanção           | B/C     | Her   | -        |

**TABLE 1. CONTINUED.**

| FAMILY/SPECIES  | VOUCHER | COLLECTOR | POPULAR NAME            | HABITAT | HABIT | CATEGORY |
|---|---------|-----------|-------------------------|---------|-------|----------|
| <i>Croton argyrophyllus</i> Kunth                               | 16918   | M 232     | sacatinga-branca        | B       | Tre   | -        |
| <i>Croton heliotropifolius</i> Kunth                            | 16783   | M 179     | velande                 | B/C     | Ssh   | -        |
| <i>Croton cf. pedicellatus</i> Kunth                            | 18062   | M 341     | velande-rasteiro        | B/C     | Ssh   | -        |
| <i>Croton tetradenius</i> Baill.                                | 16746   | M 163     | velandinho              | B/C     | Her   | -        |
| <i>Croton tricolor</i> Klotzsch ex Baill.                       | 16894   | M 208     | sacatinga-preta         | B       | Tre   | -        |
| <i>Croton urticifolius</i> Lam.                                 | 18050   | M 329     | -                       | C       | Her   | -        |
| <i>Croton</i> sp. 1   | 18036   | M 315     | -                       | C       | Ssh   | -        |
| <i>Croton</i> sp. 2   | 17549   | M 272     | velande-branco          | B/C     | Shr   | -        |
| <i>Croton</i> sp. 3   | 16903   | M 217     | candeia-branca          | B       | Shr   | -        |
| <i>Euphorbia comosa</i> Vell.                                   | 18028   | M 307     | -                       | C       | Her   | -        |
| <i>Euphorbia heterodoxa</i> Müll. Arg.                          | 16134   | M 94      | tingui                  | C       | Her   | -        |
| <i>Euphorbia hyssopifolia</i> L.                                | 19900   | M 629     | erva-sangue             | B/C     | Her   | -        |
| <i>Euphorbia phosphorea</i> Mart.                               | 17557   | M 280     | pau-de-lei-te/labirinto | C       | Her   | -        |
| <i>Euphorbia</i> sp.  | 17546   | M 269     | -                       | B       | Her   | -        |
| <i>Jatropha mutabilis</i> (Pohl) Baill.                         | 16702   | M 119     | pinhão                  | C       | Ssh   | ECa      |
| <i>Jatropha ribifolia</i> (Pohl) Baill.                         | 18034   | M 313     | pinhão-rasteiro         | C       | Ssh   | ECa      |
| <i>Manihot dichotoma</i> Ule                                    | 16901   | M 215     | mandioca-brava          | C       | Shr   | ECa      |
| <i>Phyllanthus</i> sp.  | 19979   | M 708     | quebra-pedra            | C       | Her   | -        |
| <i>Sapium glandulosum</i> (L.) Morong                           | 16776   | M 196     | burra-leiteira          | B/C     | Tre   | -        |
| <i>Tragia</i> sp.   | 16937   | M 253     | -                       | B       | Cli   | -        |
| Euphorbiaceae sp. 1   | 20342   | M 1100    | -                       | B       | Tre   | -        |
| Euphorbiaceae sp. 2   | 20324   | M 1082    | pau-teiu                | B       | Tre   | -        |
| <b>Fabaceae- Caesalpinoideae</b>                                |         |           |                         |         |       |          |
| <i>Bauhinia cheilantha</i> (Bong.) Steud.                       | 16124   | M 84      | mororó                  | B/C     | Shr   | -        |
| <i>Chamaecrista cf. nictitans</i> (L.) Moench                   | 19839   | M 568     | -                       | B       | Shr   | -        |
| <i>Chamaecrista</i> sp. 1                                       | 16889   | M 203     | -                       | B/C     | Shr   | -        |
| <i>Chamaecrista</i> sp. 2                                       | 19962   | M 691     | -                       | C       | Shr   | -        |
| <i>Libidibia ferrea</i> (Mart. ex Tul.) L.P.Queiroz             | 20079   | M 808     | pau-ferro               | B/C     | Tre   | -        |
| <i>Poincianella pyramidalis</i> (Tul.) L.P.Queiroz              | 16905   | M 219     | catingueira             | C       | Tre   | ECa      |
| <i>Senna cana</i> (Nees and Mart.) H.S.Irwin and Barneby        | 16109   | M 69      | flor-de-bezouro         | C       | Shr   | -        |
| <i>Senna macranthera</i> (DC. ex Collad.) H.S.Irwin and Barneby | 16004   | M 13      | flor-de-bezouro         | B/C     | Shr   | -        |
| <i>Senna obtusifolia</i> (L.) H.S.Irwin and Barneby             | 11459   | P 1345    | -                       | B       | Ssh   | ECa      |
| <i>Senna rizzinii</i> H.S.Irwin and Barneby                     | 15771   | C 619     | -                       | B/C     | Shr   | ECa      |
| <i>Senna splendida</i> (Vogel) H.S.Irwin and Barneby            | 18713   | M 508     | -                       | C       | Shr   | ECa      |
| <i>Senna</i> sp.  | 20064   | M 793     | flor-de-são-joão        | B/C     | Shr   | -        |
| <b>Fabaceae- Mimosoideae</b>                                    |         |           |                         |         |       |          |
| <i>Albizia</i> sp.  | 15792   | C 640     | moisés                  | B       | Tre   | -        |
| <i>Anadenanthera colubrina</i> (Vell.) Brenan                   | *       | *         | angico-de-caroço        | C       | Tre   | -        |
| <i>Chloroleucon foliolosum</i> (Benth.) G.P.Lewis               | 20029   | M 758     | arapiraca               | B/C     | Shr   | -        |
| <i>Mimosa acutistipula</i> (Mart.) Benth.                       | 20028   | M 757     | -                       | C       | Shr   | -        |
| <i>Mimosa arenosa</i> (Willd.) Poir.                            | 18725   | M 520     | calumbi                 | B/C     | Shr   | ECa      |
| <i>Mimosa sensitiva</i> L.                                      | 20008   | M 737     | unha-de-gato            | C       | Shr   | -        |
| <i>Mimosa tenuiflora</i> (Willd.) Poir.                         | 16137   | M 97      | jurema-preta            | B/C     | Tre   | -        |
| <i>Parapiptadenia zehntneri</i> (Harms) M.P.Lima and H.C.Lima   | 20030   | M 759     | angico-manjola          | C       | Tre   | ECa      |
| <i>Piptadenia stipulacea</i> (Benth.) Ducke                     | 18568   | M 362     | espinheiro-branco       | B/C     | Tre   | -        |
| <i>Pityrocarpa moniliformis</i> (Benth.) Luckow and R.W.Jobson  | 16125   | M 85      | quipé                   | C       | Tre   | -        |
| <i>Senegalia monacantha</i> (Willd.) Seigler and Ebinger        | 20039   | M 768     | jiquirizeiro            | B/C     | Tre   | -        |
| <i>Senegalia piauhiensis</i> (Benth.) Seigler and Ebinger       | 16892   | M 206     | jurema-branca           | C       | Tre   | -        |
| <i>Senegalia polypylla</i> (DC.) Britton and Rose               | 17538   | M 261     | espinheiro              | B       | Tre   | -        |
| <b>Fabaceae- Papilionoideae</b>                                 |         |           |                         |         |       |          |
| <i>Aeschynomene evenia</i> C.Wright and Sauvalle                | 15755   | C 604     | -                       | C       | Ssh   | -        |
| <i>Aeschynomene mollicula</i> Kunth                             | 15747   | P 1653    | -                       | B/C     | Ssh   | -        |
| <i>Aeschynomene</i> sp.   | 19940   | M 669     | -                       | C       | Her   | -        |
| <i>Bowdichia virgilioides</i> Kunth                             | 16703   | M 120     | -                       | C       | Shr   | -        |
| <i>Centrosema brasiliatum</i> (L.) Benth.                       | 19950   | M 679     | -                       | B/C     | Cli   | -        |
| <i>Chaetocalyx scandens</i> (L.) Urb.                           | 19822   | M 551     | -                       | C       | Cli   | -        |
| <i>Clitoria</i> sp.   | 9141    | P 1336    | -                       | -       | Cli   | -        |



**TABLE 1. CONTINUED.**

| FAMILY/SPECIES  | VOUCHER | COLLECTOR | POPULAR NAME       | HABITAT | HABIT | CATEGORY |
|---|---------|-----------|--------------------|---------|-------|----------|
| <i>Crotalaria cf. retusa</i> L.                                     | 19842   | M 571     | -                  | B       | Her   | -        |
| <i>Dioclea violacea</i> Mart. ex Benth.                             | 16035   | M 44      | olho-de-boi        | B/C     | Lia   | -        |
| <i>Indigofera lespedezoides</i> Kunth                               | 16936   | M 252     | anil               | B/C     | Ssh   | -        |
| <i>Indigofera suffruticosa</i> Mill.                                | *       | *         | -                  | B       | Her   | -        |
| <i>Machaerium hirtum</i> (Vell.) Stellfeld                          | 16119   | M 79      | mau-vizinho        | B       | Tre   | -        |
| <i>Macroptilium bracteatum</i> (Nees and Mart.) Maréchal and Baudet | 19967   | M 696     | feijãozinho        | B/C     | Her   | -        |
| <i>Vigna</i> sp.  | 16778   | M 198     | -                  | B/C     | Cli   | -        |
| <i>Zollernia ilicifolia</i> (Brongn.) Vogel                         | 20340   | M 1098    | -                  | B       | Tre   | -        |
| <i>Zornia cf. leptophylla</i> (Benth.) Pittier                      | 18735   | M 530     | amendoim-bravo     | C       | Ssh   | -        |
| <i>Zornia sericea</i> Moric.  | 9250    | L 51      | -                  | -       | Her   | -        |
| <b>Gentianaceae</b>   |         |           |                    |         |       |          |
| <i>Schultesia guianensis</i> (Aubl.) Malme                          | 19836   | M 565     | -                  | B/C     | Her   | -        |
| <b>Gesneriaceae</b>   |         |           |                    |         |       |          |
| <i>Sinningia nordestina</i> Chautems, Baracho and Siqueira-Filho    | 19925   | M 654     | -                  | B       | Her   | -        |
| <b>Iridaceae</b>  |         |           |                    |         |       |          |
| <i>Cypella linearis</i> (Kunth) Baker                               | 19831   | M 560     | alho-da-terra      | C       | Her   | -        |
| <b>Krameriaceae</b>   |         |           |                    |         |       |          |
| <i>Krameria tomentosa</i> A.St.-Hil.                                | 18727   | M 522     | -                  | C       | Her   | -        |
| <b>Lamiaceae</b>  |         |           |                    |         |       |          |
| <i>Hypenia salzmannii</i> (Benth.) Harley                           | 16698   | M 115     | Barrigudi-nha      | C       | Her   | -        |
| <i>Hyptis calida</i> Mart. ex Benth.                                | 18642   | M 436     | candeia-de-caboclo | C       | Ssh   | -        |
| <i>Hyptis pectinata</i> (L.) Poit.                                  | 19942   | M 671     | sambacaitá         | B/C     | Her   | -        |
| <i>Marsypianthes cf. chamaedrys</i> (Vahl) Kuntze                   | 18027   | M 306     | -                  | C       | Her   | -        |
| <i>Rhaphiodon echinus</i> Schauer                                   | 18572   | M 366     | espinho-de-bola    | C       | Her   | -        |
| <b>Lauraceae</b>  |         |           |                    |         |       |          |
| <i>Ocotea</i> sp.   | 16018   | M 27      | -                  | B       | Tre   | -        |
| Lauraceae sp.   | 16775   | M 195     | casuçú             | B       | Tre   | -        |
| <b>Loranthaceae</b>   |         |           |                    |         |       |          |
| <i>Phthirusa podoptera</i> (Cham. and Schldl.) Kuijt                | 16909   | M 223     | -                  | B       | Shr   | -        |
| <i>Struthanthus</i> sp.   | 16091   | M 51      | -                  | B       | Cli   | -        |
| <b>Lythraceae</b>   |         |           |                    |         |       |          |
| <i>Cuphea</i> sp.   | 18562   | M 356     | -                  | C       | Her   | -        |
| <i>Lafoensia pacari</i> A.St.-Hil.                                  | 19903   | M 632     | banha-de-galinha   | B       | Tre   | -        |
| <i>Pleurophora anomala</i> (A.St.-Hil.) Koehne                      | 20067   | M 796     | -                  | C       | Her   | -        |
| <b>Malpighiaceae</b>  |         |           |                    |         |       |          |
| <i>Byrsinima</i> sp.  | 18621   | M 415     | -                  | B/C     | Shr   | -        |
| <i>Galphimia brasiliensis</i> (L.) A.Juss.                          | 16131   | M 91      | -                  | B/C     | Her   | -        |
| <i>Heteropterys</i> sp. 1   | 16718   | M 135     | -                  | C       | Shr   | -        |
| <i>Heteropterys</i> sp. 2   | 16120   | M 80      | -                  | B       | Cli   | -        |
| <i>Ptilochaeta bahiensis</i> Turcz.                                 | 16687   | M 104     | pau-de-pipoca      | C       | Shr   | -        |
| <i>Stigmaphylloparalias</i> A.Juss.                                 | 17525   | M 238     | malina             | C       | Ssh   | -        |
| <i>Stigmaphyllo</i> sp.   | 16734   | M 151     | cipó-de-catengui   | B/C     | Lia   | -        |
| Malpighiaceae sp. 1   | 18032   | M 311     | -                  | C       | Lia   | -        |
| Malpighiaceae sp. 2   | 17552   | M 275     | -                  | B       | Ssh   | -        |
| Malpighiaceae sp. 3   | 18707   | M 502     | -                  | B       | Cli   | -        |
| <b>Malvaceae</b>  |         |           |                    |         |       |          |
| <i>Abutilon regnellii</i> Miq.                                      | 16749   | M 166     | -                  | B/C     | Shr   | EAF      |
| <i>Corchorus cf. hirtus</i> L.                                      | 19899   | M 628     | -                  | B       | Ssh   | -        |
| <i>Helicteres baruensis</i> Jacq.                                   | 16771   | M 191     | bola-de-caçador    | B       | Shr   | -        |
| <i>Helicteres</i> sp.   | 16779   | M 199     | cipó-de-caçador    | B/C     | Shr   | -        |
| <i>Herissantia crispa</i> (L.) Brizicky                             | 16130   | M 90      | -                  | C       | Shr   | ECa      |
| <i>Herissantia tiubae</i> (K.Schum.) Brizicky                       | 16742   | M 159     | mela-bode          | B       | Shr   | ECa      |
| <i>Malvastrum</i> sp.   | 19958   | M 687     | -                  | B/C     | Ssh   | -        |
| <i>Pavonia cancellata</i> (L.) Cav.                                 | 20026   | M 755     | -                  | C       | Her   | -        |
| <i>Pavonia</i> sp.  | 16692   | M 109     | -                  | C       | Shr   | -        |
| <i>Sida galheirensis</i> Ulbr.                                      | 18711   | M 506     | -                  | C       | Her   | ECa      |
| <i>Sida</i> sp. 1   | 15796   | C 645     | -                  | B       | Her   | -        |
| <i>Sida</i> sp. 2   | 16724   | M 141     | -                  | B       | Her   | -        |

**TABLE 1. CONTINUED.**

| FAMILY/SPECIES   | VOUCHER | COLLECTOR | POPULAR NAME      | HABITAT | HABIT | CATEGORY |
|--|---------|-----------|-------------------|---------|-------|----------|
| Malvaceae sp. 1  | 20326   | M 1084    | moleque-duro      | B/C     | Tre   | -        |
| Malvaceae sp. 2  | 16685   | M 102     | -                 | C       | Her   | -        |
| Malvaceae sp. 3  | 20048   | M 777     | -                 | C       | Her   | -        |
| <b>Marantaceae</b>   |         |           |                   |         |       |          |
| <i>Calathea</i> sp.  | 18017   | M 296     | -                 | B       | Her   | -        |
| <i>Maranta</i> sp.   | 16773   | M 193     | cana-de-macaco    | B/C     | Her   | -        |
| <b>Marcgraviaceae</b>  |         |           |                   |         |       |          |
| <i>Schwartzia brasiliensis</i> (Choisy) Bedell ex Gir.-Cañas                   | 16744   | M 161     | casuçú            | B       | Tre   | -        |
| <b>Melastomataceae</b>   |         |           |                   |         |       |          |
| <i>Tibouchina multiflora</i> Cogn.   | 20054   | M 783     | -                 | C       | Ssh   | -        |
| <b>Menispermaceae</b>  |         |           |                   |         |       |          |
| <i>Cissampelos</i> sp.   | 16906   | M 220     | -                 | B       | Cli   | -        |
| <b>Moraceae</b>  |         |           |                   |         |       |          |
| <i>Ficus</i> sp.   | 18659   | M 453     | gameleira         | B/C     | Tre   | -        |
| <b>Myrtaceae</b>   |         |           |                   |         |       |          |
| <i>Campomanesia aromatic</i> a (Aubl.) Griseb.                                 | 20339   | M 1097    | vermelhi-nho      | B       | Tre   | Thr      |
| <i>Campomanesia eugenioi</i> des (Cambess.) D.Legrand                          | 18609   | M 403     | araçá-de-porco    | B/C     | Shr   | -        |
| <i>Campomanesia eugenioi</i> des (Cambess.) D.Legrand var. <i>desertorum</i>   | 16701   | M 118     | -                 | C       | Shr   | ECa      |
| <i>Campomanesia eugenioi</i> des (Cambess.) D.Legrand var. <i>eugenioi</i> des | 16896   | M 210     | -                 | C       | Shr   | -        |
| <i>Eugenia brejoensis</i> Mazine   | 18657   | M 451     | -                 | B       | Shr   | -        |
| <i>Eugenia candolleana</i> DC.   | 16727   | M 144     | azeitona          | B       | Tre   | -        |
| <i>Eugenia aff. candolleana</i> DC.  | 20332   | M 1090    | pitomba-de-cágado | C       | Shr   | -        |
| <i>Eugenia ligustrina</i> (Sw.) Willd.   | 18014   | M 293     | canela-de-viado   | B/C     | Tre   | -        |
| <i>Myrcia guianensis</i> (Aubl.) DC.   | 18611   | M 405     | -                 | B       | Shr   | -        |
| <i>Myrcia splendens</i> (Sw.) DC.  | 18586   | M 380     | -                 | B       | Shr   | -        |
| <i>Plinia</i> sp.  | 16737   | M 154     | cambucá           | B       | Tre   | -        |
| <i>Psidium appendiculatum</i> Kiaersk.   | 16711   | M 128     | araçá-de-boi      | C       | Shr   | -        |
| <i>Psidium schenckianum</i> Kiaersk.   | 18569   | M 363     | araçá             | B/C     | Tre   | -        |
| <b>Nyctaginaceae</b>   |         |           |                   |         |       |          |
| <i>Guapira noxia</i> (Netto) Lundell   | 16691   | M 108     | bandola           | B/C     | Tre   | -        |
| <i>Guapira</i> sp.   | 16912   | M 226     | bandola-da-mata   | B       | Tre   | -        |
| <b>Olivaceae</b>   |         |           |                   |         |       |          |
| <i>Ximenia americana</i> L.  | 20082   | M 909     | ameixa            | C       | Shr   | -        |
| <b>Onagraceae</b>  |         |           |                   |         |       |          |
| <i>Ludwigia octovalvis</i> (Jacq.) P.H.Raven                                   | 19851   | M 580     | -                 | C       | Her   | -        |
| <i>Ludwigia</i> sp.  | 20076   | M 805     | -                 | C       | Her   | -        |
| <b>Orchidaceae</b>   |         |           |                   |         |       |          |
| <i>Alatiglossum barbatum</i> (Lindl.) Baptista                                 | 19921   | M 650     | -                 | B       | Her   | -        |
| <i>Campylocentrum micranthum</i> (Lindl.) Rolfe                                | 15857   | S 128     | -                 | B       | Her   | -        |
| <i>Catasetum hookeri</i> Lindl.  | 18605   | M 399     | -                 | B/C     | Her   | -        |
| <i>Catasetum uncatum</i> Rolfe   | 15862   | S 134     | -                 | B/C     | Her   | Thr      |
| <i>Cattleya labiata</i> Lindl.   | 15739   | P 1645    | -                 | B       | Her   | Thr      |
| <i>Cranichis candida</i> (Barb.Rodr.) Cogn.                                    | 18421   | M 454     | -                 | B       | Her   | -        |
| <i>Cyrtopodium holstii</i> L.C.Menezes   | 15865   | S 138     | -                 | C       | Her   | EAF      |
| <i>Epidendrum cinnabarinum</i> Salzm.  | 16761   | M 181     | -                 | B       | Her   | EAF      |
| <i>Epidendrum rigidum</i> Jacq.  | 15801   | C 650     | -                 | B       | Her   | -        |
| <i>Habenaria schenckii</i> Cogn.   | 19833   | M 562     | -                 | C       | Her   | -        |
| <i>Hapalorchis lineatus</i> (Lindl.) Schltr.                                   | 15761   | C 610     | -                 | B       | Her   | -        |
| <i>Oeceoclades maculata</i> (Lindl.) Lindl.                                    | 18606   | M 400     | -                 | B/C     | Her   | Inv      |
| <i>Polystachya estrellensis</i> Rchb.f.  | 18411   | S 180     | -                 | B       | Her   | -        |
| <i>Prescottia plantaginifolia</i> Lindl. ex Hook.                              | 20055   | M 784     | -                 | C       | Her   | -        |
| <i>Sacoila lanceolata</i> (Aubl.) Garay  | 16693   | M 110     | -                 | C       | Her   | -        |
| <i>Vanilla palmarum</i> (Salzm. ex Lindl.) Lindl.                              | 18417   | S 131     | -                 | B/C     | Her   | -        |
| <i>Vanilla planifolia</i> Jacks. ex Andrews                                    | 8721    | C 111     | banana-brava      | C       | Her   | -        |
| <i>Zygostates</i> sp.  | 18418   | S 136     | -                 | B       | Her   | -        |
| <b>Oxalidaceae</b>   |         |           |                   |         |       |          |
| <i>Oxalis divaricata</i> Mart. ex Zucc.  | 18033   | M 312     | quebra-pedra      | C       | Her   | -        |
| <i>Oxalis</i> sp.  | 18596   | M 390     | -                 | B       | Shr   | -        |

**TABLE 1. CONTINUED.**

| FAMILY/SPECIES                                     | VOUCHER | COLLECTOR | POPULAR NAME       | HABITAT | HABIT | CATEGORY |
|--|---------|-----------|--------------------|---------|-------|----------|
| <b>Passifloraceae</b>                              |         |           |                    |         |       |          |
| <i>Passiflora cincinnata</i> Mast.                 | 16725   | M 142     | maracujá-do-mato   | B/C     | Cli   | -        |
| <i>Passiflora foetida</i> L.                       | 16931   | M 247     | maracujá-de-papoco | B       | Cli   | Inv      |
| <i>Piriqueta racemosa</i> (Jacq.) Sweet            | 16016   | M 25      | -                  | B/C     | Her   | -        |
| <i>Turnera calyptrocarpa</i> Urb.                  | 18051   | M 330     | -                  | C       | Ssh   | -        |
| <i>Turnera cearensis</i> Urb.                      | 15749   | P 1655    | -                  | B       | Ssh   | -        |
| <i>Turnera chamaedrifolia</i> Cambess.             | 16729   | M 146     | -                  | B       | Ssh   | -        |
| <b>Phytolaccaceae</b>                              |         |           |                    |         |       |          |
| <i>Microtea paniculata</i> Moq.                    | 17535   | M 258     | -                  | B       | Her   | -        |
| <i>Petiveria alliacea</i> L.                       | 17529   | M 257     | -                  | B       | Her   | -        |
| <i>Rivina humilis</i> L.                           | 17541   | M 264     | -                  | B       | Her   | -        |
| <b>Piperaceae</b>                                  |         |           |                    |         |       |          |
| Piperaceae sp. 1                                   | 18613   | M 407     | -                  | B       | Her   | -        |
| Piperaceae sp. 2                                   | 18623   | M 417     | -                  | B       | Her   | -        |
| <b>Plantaginaceae</b>                              |         |           |                    |         |       |          |
| <i>Angelonia biflora</i> Benth.                    | 16103   | M 63      | -                  | B/C     | Her   | ECa      |
| <i>Angelonia campestris</i> Nees and Mart.         | 16715   | M 132     | -                  | B/C     | Her   | ECa      |
| <i>Angelonia cornigera</i> Hook.f.                 | 18031   | M 310     | -                  | C       | Her   | ECa      |
| <i>Scoparia dulcis</i> L.                          | 16024   | M 33      | -                  | B/C     | Her   | -        |
| <b>Poaceae</b>                                     |         |           |                    |         |       |          |
| <i>Apochloa</i> sp.                                | 19897   | M 626     | -                  | B       | Her   | -        |
| <i>Aristida setifolia</i> Kunth                    | 19879   | M 608     | -                  | B       | Her   | -        |
| <i>Axonopus</i> sp.                                | 19889   | M 618     | -                  | B       | Her   | -        |
| <i>Chloris</i> sp.                                 | 19912   | M 641     | -                  | B       | Her   | -        |
| <i>Dactyloctenium aegyptium</i> (L.) Willd.        | 18579   | M 373     | -                  | C       | Her   | -        |
| <i>Dichanthelium cf. sciurotis</i> (Trin.) Davidse | 16927   | M 243     | -                  | B       | Her   | -        |
| <i>Digitaria cf. horizontalis</i> Willd.           | 18580   | M 374     | -                  | C       | Her   | -        |
| <i>Digitaria</i> sp.                               | 19908   | M 637     | -                  | B       | Her   | -        |
| <i>Enteropogon</i> sp.                             | 19881   | M 610     | -                  | B       | Her   | -        |
| <i>Eragrostis articulata</i> (Schrank) Nees        | 19976   | M 705     | -                  | B       | Her   | -        |
| <i>Eragrostis cilularis</i> (L.) R.Br.             | 19909   | M 638     | -                  | B       | Her   | -        |
| <i>Eragrostis cf. maypurensis</i> (Kunth) Steud.   | 19977   | M 706     | -                  | B       | Her   | -        |
| <i>Eragrostis cf. rufescens</i> Schrad. ex Schult. | 18578   | M 372     | -                  | C       | Her   | -        |
| <i>Eragrostis</i> sp.                              | 18577   | M 371     | -                  | C       | Her   | -        |
| <i>Panicum trichoides</i> Sw.                      | 19898   | M 627     | -                  | B       | Her   | -        |
| <i>Pappophorum</i> sp.                             | 19884   | M 613     | -                  | B       | Her   | -        |
| <i>Paspalum cf. fimbriatum</i> Kunth               | 18576   | M 370     | -                  | C       | Her   | -        |
| <i>Paspalum cf. oligostachyum</i> Salzm. ex Steud. | 18634   | M 428     | -                  | B       | Her   | -        |
| <i>Paspalum</i> sp.                                | 19886   | M 615     | -                  | B       | Her   | -        |
| <i>Rhynchospora repens</i> (Willd.) C.E.Hubb.      | 18573   | M 367     | -                  | C       | Her   | Inv      |
| <i>Setaria parviflora</i> (Poir.) Kerguélen        | 18574   | M 368     | -                  | C       | Her   | -        |
| <i>Setaria setosa</i> (Sw.) P.Beauv.               | 19890   | M 619     | -                  | B       | Her   | -        |
| <i>Setaria cf. tenax</i> (Rich.) Desv.             | 18666   | M 461     | -                  | B       | Her   | -        |
| <i>Setaria</i> sp.                                 | 17528   | M 256     | -                  | B       | Her   | -        |
| <i>Steinchisma laxum</i> (Sw.) Zuloaga             | 18638   | M 432     | -                  | B       | Her   | -        |
| Poaceae sp. 1                                      | 18635   | M 429     | -                  | C       | Her   | -        |
| Poaceae sp. 2                                      | 19865   | M 594     | -                  | B       | Her   | -        |
| <b>Polygalaceae</b>                                |         |           |                    |         |       |          |
| <i>Bredemeyera hebeclada</i> (DC.) J.F.B.Pastore   | 16111   | M 71      | -                  | B/C     | Tre   | -        |
| <i>Bredemeyera</i> sp.                             | 20320   | M 1078    | -                  | B       | Shr   | -        |
| <i>Polygala boliviensis</i> A.W.Benn.              | 19920   | M 649     | -                  | C       | Her   | -        |
| <i>Polygala decumbens</i> A.W.Benn.                | 18736   | M 531     | -                  | B/C     | Her   | -        |
| <i>Polygala glochidiata</i> Kunth                  | 19980   | M 709     | -                  | B/C     | Her   | -        |
| <i>Polygala paniculata</i> L.                      | 19981   | M 710     | -                  | C       | Her   | -        |
| <i>Polygala spectabilis</i> DC.                    | 16919   | M 233     | -                  | B       | Ssh   | -        |
| <i>Polygala violacea</i> Aubl.                     | 19953   | M 682     | -                  | B       | Her   | -        |
| <i>Polygala</i> sp.                                | 16118   | M 78      | -                  | B       | Cli   | -        |
| <b>Polygonaceae</b>                                |         |           |                    |         |       |          |
| <i>Polygonum</i> sp.                               | 18620   | M 414     | -                  | B       | Cli   | -        |



**TABLE 1. CONTINUED.**

| FAMILY/SPECIES   | VOUCHER | COLLECTOR | POPULAR NAME       | HABITAT | HABIT | CATEGORY |
|--|---------|-----------|--------------------|---------|-------|----------|
| <i>Ruprechtia laxiflora</i> Meisn.                                   | 16123   | M 83      | pau-de-caixão      | B       | Tre   | -        |
| <b>Pontederiaceae</b>  |         |           |                    |         |       |          |
| <i>Eichhornia cf. paniculata</i> (Spreng.) Solms                     | 16751   | M 168     | -                  | C       | Her   | -        |
| <b>Portulacaceae</b>   |         |           |                    |         |       |          |
| <i>Portulaca oleracea</i> L.   | 16923   | M 237     | berduega           | C       | Her   | -        |
| <i>Portulaca</i> sp.   | 20036   | M 765     | sete-estepe        | C       | Her   | -        |
| <b>Rhamnaceae</b>  |         |           |                    |         |       |          |
| <i>Gouania latifolia</i> Reissek                                     | 16034   | M 43      | -                  | B/C     | Shr   | -        |
| <i>Ziziphus joazeiro</i> Mart.                                       | 16686   | M 103     | joazeiro           | B/C     | Tre   | ECa      |
| <b>Rubiaceae</b>   |         |           |                    |         |       |          |
| <i>Alseis floribunda</i> Schott                                      | 20325   | M 1083    | quiri-branco       | B/C     | Tre   | -        |
| <i>Borreria cf. capitata</i> (Ruiz and Pav.) DC.                     | 19938   | M 667     | -                  | B       | Her   | -        |
| <i>Borreria cf. eryngioides</i> Cham. and Schltld.                   | 19992   | M 721     | -                  | B/C     | Her   | -        |
| <i>Borreria verticillata</i> (L.) G.Mey.                             | 16015   | M 24      | vassoura-de-botão  | B       | Her   | Inv      |
| <i>Chiococca alba</i> (L.) Hitchc.                                   | 16008   | M 17      | -                  | B       | Shr   | -        |
| <i>Coutarea hexandra</i> (Jacq.) K.Schum.                            | 16926   | M 242     | quina-quina        | B/C     | Shr   | -        |
| <i>Diodella cf. apiculata</i> (Willd. ex Roem. and Schult.) Delprete | 18720   | M 515     | -                  | C       | Her   | -        |
| <i>Diodella teres</i> (Walter) Small                                 | 18603   | M 397     | -                  | C       | Her   | -        |
| <i>Emmeorhiza umbellata</i> (Spreng.) K.Schum.                       | 19970   | M 699     | -                  | B       | Cli   | -        |
| <i>Guettarda angelica</i> Mart. ex Müll.Arg.                         | 16921   | M 235     | angeca             | B/C     | Tre   | ECa      |
| <i>Guettarda</i> sp.   | 16890   | M 204     | rompe-gibão        | B       | Tre   | -        |
| <i>Randia armata</i> (Sw.) DC.                                       | 17567   | M 290     | espinho-de-croá    | B/C     | Tre   | -        |
| <i>Richardia grandiflora</i> (Cham. and Schltld.) Steud.             | 18061   | M 340     | -                  | C       | Her   | -        |
| <i>Richardia</i> sp. 1   | 19988   | M 717     | -                  | B/C     | Her   | -        |
| <i>Richardia</i> sp. 2   | 20024   | M 753     | -                  | C       | Her   | -        |
| <i>Tocoyena formosa</i> (Cham. and Schltld.) K.Schum.                | 16917   | M 231     | jenipapo-bravo     | B/C     | Tre   | -        |
| Rubiaceae sp. 1  | 19991   | M 720     | -                  | C       | Her   | -        |
| Rubiaceae sp. 2  | 16704   | M 121     | -                  | C       | Shr   | -        |
| <b>Rutaceae</b>  |         |           |                    |         |       |          |
| <i>Zanthoxylum cf. petiolare</i> A.St.-Hil. and Tul.                 | 18647   | M 441     | laranja-brava      | B       | Tre   | -        |
| <b>Santalaceae</b>   |         |           |                    |         |       |          |
| <i>Phoradendron affine</i> (Pohl ex DC.) Engl. and Krause            | 17563   | M 286     | erva-de-passarinho | B       | Her   | -        |
| Santalaceae sp.  | 18617   | M 411     | -                  | B       | Cli   | -        |
| <b>Sapindaceae</b>   |         |           |                    |         |       |          |
| <i>Allophylus</i> sp.  | 17559   | M 282     | -                  | B       | Shr   | -        |
| <i>Cardiospermum corindum</i> L.                                     | 19825   | M 554     | -                  | C       | Cli   | -        |
| <i>Cardiospermum halicacabum</i> L.                                  | 19861   | M 590     | -                  | B       | Cli   | -        |
| <i>Cupania</i> sp.   | 20336   | M 1094    | cambotá            | B       | Tre   | -        |
| <i>Serjania glabrata</i> Kunth                                       | 16021   | M 30      | -                  | B       | Cli   | -        |
| <i>Serjania</i> sp. 1  | 20018   | M 747     | -                  | B/C     | Cli   | -        |
| <i>Serjania</i> sp. 2  | 19824   | M 553     | -                  | C       | Cli   | -        |
| <b>Sapotaceae</b>  |         |           |                    |         |       |          |
| <i>Sideroxylon obtusifolium</i> (Roem. and Schult.) T.D.Penn.        | 20038   | M 767     | quixabeira         | C       | Tre   | -        |
| <b>Schoepfiaceae</b>   |         |           |                    |         |       |          |
| <i>Schoepfia brasiliensis</i> A.DC.                                  | 19895   | M 624     | -                  | B       | Shr   | -        |
| <b>Simaroubaceae</b>   |         |           |                    |         |       |          |
| <i>Simaba floribunda</i> A.St.-Hil.                                  | 20057   | M 786     | jaca-brava         | B/C     | Tre   | Thr/EAF  |
| <b>Smilacaceae</b>   |         |           |                    |         |       |          |
| <i>Smilax</i> sp.  | 16038   | M 47      | japecanga          | B       | Cli   | -        |
| <b>Solanaceae</b>  |         |           |                    |         |       |          |
| <i>Brunfelsia uniflora</i> (Pohl) D.Don                              | 16735   | M 152     | manacá             | B/C     | Tre   | -        |
| <i>Capsicum parvifolium</i> Sendtn.                                  | 17536   | M 259     | -                  | B       | Tre   | -        |
| <i>Solanum megalonyx</i> Sendtn.                                     | 18052   | M 331     | -                  | C       | Shr   | -        |
| <i>Solanum paludosum</i> Moric.                                      | 16904   | M 218     | jurubeba           | C       | Shr   | -        |
| <i>Solanum paniculatum</i> L.  | 16728   | M 145     | -                  | C       | Shr   | -        |
| <i>Solanum rhytidandrump</i> Sendtn.                                 | 16932   | M 248     | jurubeba-branca    | B/C     | Shr   | -        |
| <i>Vassobia cf. breviflora</i> (Sendtn.) Hunz.                       | 15757   | C 606     | -                  | B       | Shr   | -        |
| <b>Talinaceae</b>  |         |           |                    |         |       |          |
| <i>Talinum portulacifolium</i> (Forssk.) Asch. ex Schweinf.          | 17555   | M 278     | lingua-de-vaca     | B       | Her   | -        |



**TABLE 1. CONTINUED.**

| FAMILY/SPECIES                                  | VOUCHER | COLLECTOR | POPULAR NAME        | HABITAT | HABIT | CATEGORY |
|---|---------|-----------|---------------------|---------|-------|----------|
| <b>Urticaceae</b>                               |         |           |                     |         |       |          |
| <i>Pilea hyalina</i> Fenzl                      | 15762   | C 611     | -                   | B       | Her   | -        |
| <i>Urera baccifera</i> (L.) Gaudich. ex Wedd.   | 15999   | M 08      | cansanção           | B       | Ssh   | -        |
| <b>Valerianaceae</b>                            |         |           |                     |         |       |          |
| <i>Valeriana scandens</i> L.                    | 15784   | C 632     | -                   | B       | Cli   | -        |
| <b>Verbenaceae</b>                              |         |           |                     |         |       |          |
| <i>Lantana camara</i> L.                        | 16010   | M 19      | chumbinho           | B/C     | Shr   | Inv      |
| <i>Lantana cf. canescens</i> Kunth              | 16888   | M 180     | camará              | B/C     | Shr   | -        |
| <i>Lantana cf. rugosa</i> Thunb.                | 16708   | M 125     | alecrim-de-caboclo  | C       | Shr   | -        |
| <i>Lippia alba</i> (Mill.) N.E.Br.              | 18582   | M 376     | cidreira            | C       | Shr   | -        |
| <i>Lippia gracilis</i> Schauer                  | 18557   | M 351     | candeia-de-queimar  | C       | Shr   | ECA      |
| <i>Lippia sidoides</i> Cham.                    | 9384    | Sa 9384   | alecrim-pimenta     | -       | Shr   | -        |
| <i>Stachytarpheta angustifolia</i> (Mill.) Vahl | 16750   | M 167     | -                   | C       | Her   | -        |
| <i>Tamonea curassavica</i> (L.) Pers.           | 16006   | M 15      | -                   | B       | Her   | -        |
| <i>Vitex</i> sp.                                | 20335   | M 1093    | maria-preta         | B       | Tre   | -        |
| Verbenaceae sp. 1                               | 16748   | M 165     | -                   | B       | Ssh   | -        |
| Verbenaceae sp. 2                               | 18045   | M 324     | alecrim-de-vaqueiro | C       | Shr   | -        |
| <b>Violaceae</b>                                |         |           |                     |         |       |          |
| <i>Hybanthopsis bahiensis</i> Paula-Souza       | 16713   | M 130     | -                   | B/C     | Her   | -        |
| <i>Hybanthus calceolaria</i> (L.) Oken          | 18026   | M 305     | -                   | C       | Her   | -        |
| <b>Vitaceae</b>                                 |         |           |                     |         |       |          |
| <i>Cissus pulcherrima</i> Vell.                 | 16110   | M 70      | -                   | C       | Shr   | EAF      |
| <i>Cissus simsiana</i> Schult. and Schult.f.    | 17537   | M 260     | -                   | B       | Ssh   | -        |
| <b>Vochysiaceae</b>                             |         |           |                     |         |       |          |
| <i>Callisthene</i> sp.                          | 20331   | M 1089    | branquinha          | B       | Tre   | -        |
| <b>Undetermined</b>                             |         |           |                     |         |       |          |
| Sp. 1   | 20337   | M 1095    | esporão-de-galo     | B       | Tre   | -        |
| Sp. 2   | 20341   | M 1099    | -                   | B       | Tre   | -        |
| Sp. 3   | 20343   | M 1101    | -                   | B       | Tre   | -        |
| Sp. 4   | 20344   | M 1102    | -                   | B       | Tre   | -        |
| Sp. 5   | 20338   | M 1096    | quiri-preto         | B       | Tre   | -        |
| Sp. 6   | 19878   | M 607     | -                   | B       | Tre   | -        |

**TABLE 2.** List of families and species of Pteridophytes of the Serra da Guia, Poço Redondo, Sergipe state, Brazil, with their vouchers (ASE), collectors (name and number), popular names, habitats, habits and categories extinction. Collector: C: Costa, S.M.; M: Machado, W.J. Habitat: B: Brejo de Altitude; C: Caatinga. Habit: Her: herb.

| FAMILY/SPECIES                              | VOUCHER | COLLECTOR | POPULAR NAME | HABITAT | HABIT | CATEGORY |
|---|---------|-----------|--------------|---------|-------|----------|
| <b>Anemiaceae</b>                           |         |           |              |         |       |          |
| <i>Anemia oblongifolia</i> (Cav.) Sw.       | 19853   | M 582     | -            | B       | Her   | -        |
| <b>Aspleniaceae</b>                         |         |           |              |         |       |          |
| <i>Asplenium pumilum</i> Sw.                | 15773   | C 621     | -            | B       | Her   | -        |
| <b>Polypodiaceae</b>                        |         |           |              |         |       |          |
| <i>Serpocaulon triseriale</i> (Sw.) A.R.Sm. | 18602   | M 396     | -            | B       | Her   | -        |
| <b>Pteridaceae</b>                          |         |           |              |         |       |          |
| <i>Hemionitis palmata</i> L.                | 15774   | C 622     | -            | B       | Her   | -        |
| <b>Salviniaceae</b>                         |         |           |              |         |       |          |
| <i>Salvinia cf. oblongifolia</i> Mart.      | 15753   | C 602     | -            | C       | Her   | -        |

**ACKNOWLEDGMENTS:** The authors would like to thank CAPES/PROCAD (Process 2334/2008-14) for financial assistance in the collection; UFS for logistical support; A. Alves, A.L. Gaglioti, A. Machado, C. Proença, D. Araújo, D. Cardoso, F. Souza, I.R.N. Menezes, J.E. Nascimento-Jr, J. Irapuan, L.A.S. Santos, L. Rossi, M.A. Farinaccio, M. Carnaúba, M.F. Araújo, M. Ibrahim, M.I. Loiola, M.M. Arbo, M. Pires, R. Bianchini, R. Lyra, S. Monteiro and V. Bitrich for their help in species identification; A.L. Dória Neto, J.B. Jesus and L.A. Gomes for their help in the field work; J.M. Ruiz-Esparza Aguilar for the preparation of map and J.M.S. Santos (Dona Josefa da Guia) and her family for the accommodation.

#### LITERATURE CITED

Barbosa, M.R.V., M.F. Agra, E.V.S.B. Sampaio, J.P. Cunha and L.A. Andrade. 2004. Diversidade Florística na Mata do Pau-Ferro, Areia, Paraíba;

p. 111-121 In K.C. Porto, J.J.P. Cabral and M. Tabarelli (org.). *Brejos de altitude em Pernambuco e Paraíba: história natural, ecologia e conservação*. Brasília: Ministério do Meio Ambiente.

Biodiversitas 2005. *Lista da flora brasileira ameaçada de extinção*. Electronic Database accessible at [http://www.biodiversitas.org.br/florabr/lista\\_florabr.pdf/](http://www.biodiversitas.org.br/florabr/lista_florabr.pdf/). Captured on 10 December 2010.

Borges-Najosa, D.M. and U. Caramaschi. 2003. Composição e análise comparativa da diversidade e das afinidades biogeográficas dos lagartos e anfíbiosbenídeos (Squamata) dos brejos nordestinos; p. 463-512 In I.R. Leal, M. Tabarelli and J.M.C. Silva (ed.). *Ecologia e conservação da Caatinga*. Recife: UFPE.

Caldas, F.L.S., D.O. Santana, C.B. De-Carvalho, R.G. Faria and R.A. Santos. 2009. Levantamento preliminar de anurofauna em uma área de Caatinga no alto sertão Sergipano; p. 1-3 In *Anais do IX Congresso de*

- Ecologia do Brasil, Minas Gerais.* São Lourenço: Sociedade de Ecologia do Brasil.
- Calixto Júnior, J.T., M.A. Drumond, J.A. Silva, I.B. Sá and V.R. Oliveira. 2009. Estrutura fitossociológica de um fragmento de Caatinga sensu stricto no sertão de Pernambuco; p. 1-4 In *II Congresso Nordestino de Engenharia Florestal, Paraíba*. Campina Grande: UFCG.
- Cardoso, D.B.O.S and L.P. Queiroz. 2007. Diversidade de Leguminosae nas caatingas de Tucano, Bahia: implicações para a fitogeografia do semi-árido do Nordeste do Brasil. *Rodriguésia* 58(2): 379-391.
- Carvalho, E.C.D., D.M.B.M. Trovão, B.C. Souza, A.M. Freire, P.T.B. Oliveira and L.M.R. Ferreira. 2007. Fitossociologia e análise comparativa do componente arbustivo-arbóreo de duas áreas de Caatinga em diferentes estágios de sucessão; p. 1-3 In *Anais do VIII Congresso de Ecologia do Brasil, Minas Gerais*. Caxambu: Sociedade de Ecologia do Brasil.
- Chase, M.W. and J.L. Reveal. 2009. A phylogenetic classification of the land plants to accompany APG III. *Botanical Journal of the Linnean Society* 161: 122-127.
- Drumond, M.A., L.H.P. Kiill and C.E.S Nascimento. 2002. Inventário e Sociabilidade de espécies arbóreas e arbustivas da Caatinga na região de Petrolina, PE. *Brasil Florestal* (74): 37-43.
- Eiten, G. 1992. Formas de crescimento das plantas vasculares; p. 6-13 In M.A.G. Barros (org.). *Boletim Informativo do Herbario da Universidade de Brasília*. Brasília: Universidade de Brasília.
- Fabricante, J.R. and L.A. Andrade. 2007. Análise estrutural de um remanescente de Caatinga no Seridó paraibano. *Oecologia Brasiliensis* 11(3): 341-349.
- Fernandes, A. 2006. *Fitogeografia brasileira: províncias florísticas*. Fortaleza: Realce editora e indústria gráfica. 202 p.
- Ferraz, E.M.N, M.J.N. Rodal, E.V.S.B Sampaio and R.C.A. Pereira. 1998. Composição florística em trechos de vegetação de caatinga e brejo de altitude na região do Vale do Pajeú, Pernambuco. *Revista Brasileira de Botânica* 21(1): 7-15.
- Ferraz, R.C. 2009. *Florística e fitossociologia de uma área de Caatinga localizada no Monumento Natural Grotta do Angico, Sergipe*. Monografia (Graduação em Engenharia Florestal). São Cristóvão: Universidade Federal do Sergipe. 46 p.
- Ferreira, L.M.R., D.M.B.M. Trovão, A.M. Freire, B.C. Souza, E.C.D. Carvalho and P.T.B. Oliveira. 2007. Análise fitossociológica comparativa de duas áreas serranas de Caatinga no Cariri paraibano; p. 1-2 In *Anais do VIII Congresso de Ecologia do Brasil, Minas Gerais*. Caxambu: Sociedade de Ecologia do Brasil.
- Flora do Brasil 2011. *Lista de Espécies da Flora do Brasil 2011*. Electronic Database accessible at <http://floradobrasil.jbrj.gov.br/2011>. Captured on 6 January 2012.
- GISD 2010. *The Global Invasive Species Database*. Eletronic Database accessible at <http://www.issg.org/database>. Captured on 11 December 2010.
- Giulietti, A.M., A.L. Bocage Neta, A.A.J.F Castro, C.F.L. Gamarra-Rojas, E.V.S.B. Sampaio, J.F. Virgínio, L.P. Queiroz, M.A. Figueiredo, M.J.N. Rodal, M.R.V. Barbosa and R.M. Harley. 2003. Diagnóstico da vegetação nativa do bioma Caatinga; p. 47-90 In J.M.C. Silva, M. Tabarelli, M.T. Fonseca and L.V. Lins (org.). *Biodiversidade da Caatinga: áreas e ações prioritárias para a conservação*. Brasília: Ministério do Meio Ambiente; UFPE.
- Giulietti, A.M., A. Rapini, M.J.G. Andrade, L.P. Queiroz and J.M.C. Silva. 2009. *Plantas raras do Brasil*. Belo Horizonte: Conservação Internacional. 496 p.
- Giulietti, A.M., R.M. Harley, L.P. Queiroz, M.R.V. Barbosa, A.L. Bocage Neta and M.A. Figueiredo. 2002. Espécies endêmicas da caatinga; p. 103-115 In E.V.S.B. Sampaio, A.M. Giulietti, J. Virgínio and C.F.L. Gamarra-Rojas (ed.). *Vegetação e Flora da Caatinga*. Recife: Associação Plantas do Nordeste - APNE.
- Ibama (Instituto Brasileiro do Meio Ambiente e dos Recursos Naturais Renováveis). 1992. *Lista oficial das espécies da flora brasileira ameaçadas de extinção*. Diário Oficial. Portaria nº. 37-N de 3 de abril de 1992.
- Instituto Hórus 2010. *Instituto Hórus de desenvolvimento e conservação ambiental. Espécies Exóticas invasoras: fichas técnicas*. Eletronic Database accessible at [http://www.institutohorus.org.br/inf\\_fichas.htm/](http://www.institutohorus.org.br/inf_fichas.htm/). Captured on 5 August 2010.
- IUCN 2010. *IUCN Red List of Threatened Species*. Version 2010.4. Electronic Database accessible at <http://www.iucnredlist.org>. Captured on 30 november 2010.
- Leal, I.R., M. Tabarelli and J.M.C. Silva. 2003. *Ecologia e conservação da Caatinga: uma introdução ao desafio*. Recife: Universitária da UFPE. 796p.
- Locatelli, E., I.C. Machado and P. Medeiros. 2004. Riqueza de abelhas e a flora apícola em um fragmento da mata serrana (brejo de altitude) em Pernambuco, Nordeste do Brasil; p. 153-177 In K.C. Porto, J.J.P. Cabral and M. Tabarelli (org.). *Brejos de altitude em Pernambuco e Paraíba: história natural, ecologia e conservação*. Brasília: Ministério do Meio Ambiente.
- Lowe, S., M. Browne, S. Boudjelas and M. De Poorter. 2000. *100 of the world's worst invasive alien species*. A selection from the Global Invasive Species Database. Auckland, CA: The IUCN Invasive Species Specialist Group (ISSG). 12 p.
- Maracajá, P.B. and D.S. Benevides. 2006. Estudo da flora herbácea da Caatinga no município de Carnaúbas no Estado do Rio Grande do Norte. *Revista de Biologia e Ciências da Terra* 6(1): 165-175.
- MISSOURI Botanical Garden's VAST (VAScular Tropicos) nomenclatural database - W3 Tropicos. 2006. <http://mobot.mobot.org/W3T/Search/vast.html>. Captured on 20 November 2010.
- MMA (Ministério do Meio Ambiente). 2008. *Lista Oficial das Espécies da Flora Brasileira Ameaçadas de Extinção*. Electronic database accessible at <http://www.ibama.gov.br/sisbio/legislacao>. Ministério do Meio Ambiente. Captured on 24 January 2011.
- Mori, S., L. Silva, G. Lisboa and L. Coradin. 1989. *Manual de manejo do herbario fanerogâmico*. Ilhéus: CEPLAC. 104 p.
- Moura, F. B. P. and E.V.S.B. Sampaio. 2001. Flora lenhosa de uma mata serrana semidecídua em Jataúba, Pernambuco. *Revista Nordestina de Biologia* 15(1): 77-89.
- Prado, D.E. 2003. As Caatingas da América do Sul; p. 3 -73 In I.R. Leal, M. Tabarelli and J.M.C. Silva (ed.). *Ecologia e conservação da Caatinga*. Recife: UFPE.
- Rocha, P.A. 2010. *Diversidade, composição e estrutura de comunidade de morcegos (Mammalia: chiroptera) em habitats de caatinga e brejo de altitude do estado de Sergipe*. Dissertação (Mestrado em Ecologia e Conservação). São Cristóvão: Universidade Federal de Sergipe. 61 p.
- Rodal, M.J.N., M.F. Sales, M.J. Silva and A.G. Silva. 2005. Flora de um brejo de altitude na escarpa oriental do planalto da Borborema, PE, Brasil. *Acta Botanica Brasilica* 19(4): 843-858.
- Ruiz-Esparza Aguilar, J.M. 2010. *Diversidade da avifauna da Serra da Guia, Sergipe e Bahia*. Dissertação (Mestrado em Ecologia e Conservação). São Cristóvão: Universidade Federal de Sergipe. 58 p.
- Santana, J.A.S. and J.S. Souto. 2006. Diversidade e estrutura fitossociológica da Caatinga na Estação Ecológica do Seridó - RN. *Revista de Biologia e Ciências da Terra* 6(2): 232-242.
- Souza, G.V. 1983. *Estrutura da vegetação da Caatinga hipoxerófila do Estado de Sergipe*. Dissertação (Mestrado em Botânica). Universidade Federal Rural de Pernambuco, Recife. 95 p.
- Stehmann, J.R., R.C. Forzza, A. Salino, M. Sobral, D.P. Costa and L.H.Y. Kamino. 2009. *Plantas da Floresta Atlântica*. Rio de Janeiro: Jardim Botânico do Rio de Janeiro. 516p.
- Theulen, V. 2004. Conservação dos brejos de altitude no Estado de Pernambuco; p. 299-302 In K.C. Porto, J.J.P. Cabral and M. Tabarelli (org.). *Brejos de altitude em Pernambuco e Paraíba: história natural, ecologia e conservação*. Brasília: Ministério do Meio Ambiente.
- Thiers, B. [continuously updated]. *Index Herbariorum: A global directory of public herbaria and associated staff*. New York Botanical Garden's Virtual Herbarium. Electronic Database accessible at <http://sweetgum.nybg.org/ih/>. Captured on 12 January 2011.
- Tryon, R.M. and A.F. Tryon. 1982. *Ferns and allied plants with special reference to tropical America*. New York: Springer Verlag. 857 p.

RECEIVED: February 2012

ACCEPTED: August 2012

PUBLISHED ONLINE: November 2012

EDITORIAL RESPONSIBILITY: James Byng