

Vascular flora of the *cerrado* of Bauru-SP

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Abstract: Information on the *cerrado* vascular flora of the municipality of Bauru has been provided in lists of floristic surveys carried out in fragments of this vegetation type at different times, applying different criteria, and conforming to current taxonomic classifications. We organized this information according to APG III and revised synonymies, aiming at producing a single floristic list of species occurring in *cerrado sensu lato* or ecotonal areas (transitions between *cerrado* and seasonal forest) in municipality of Bauru to inform conservation proposals. For this purpose, we referred to all floristic lists of vascular plants found in *cerrado* fragments in Bauru and to botanic material collected and deposited in the herbaria of the Department of Biological Sciences, School of Sciences, Bauru Campus, UNESP (UNBA), and of the Bauru Botanical Garden (JBMB). We recorded 371 species from 78 families. Fabaceae was the richest in species. We also indicated each mentioned species' habit and the vegetation types where plants occur in the municipality.

Keywords: floristics, savanna, plant survey.

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Resumo: Informações relativas à flora vascular do *cerrado* do município de Bauru foram divulgadas em listas de levantamentos florísticos obtidas em fragmentos dessa vegetação em diferentes épocas, critérios e obedecendo às classificações taxonômicas vigentes. Organizamos tais informações, adotando o sistema APG III e revendo as sinonímias, com o objetivo de produzir uma lista florística única, com espécies que ocorrem no *cerrado* sentido amplo ou áreas ecotonais (transições entre *cerrado* e floresta estacional) do município de Bauru, para subsidiar propostas de conservação. Para isso, consultamos todas as listas florísticas conhecidas de plantas vasculares em fragmentos de *cerrado* do município de Bauru e material botânico coletado e depositado nos herbários do Departamento de Ciências Biológicas, Faculdade de Ciências, Câmpus de Bauru, UNESP (UNBA) e do Jardim Botânico Municipal de Bauru (JBMB). Registramos 371 espécies, pertencentes a 78 famílias. Fabaceae foi a mais rica em espécie. Indicamos o hábito de cada espécie e os tipos de vegetação em que ela ocorre no município.

Palavras-chave: florística, savana, inventário de plantas.

Introduction

The *Cerrado* has a highly diverse flora, estimated at ten thousand species of higher plants (Ratter 2004), hosting also a high diversity of other organisms from different taxa. This ecosystem shows a high diversity of relationships among organisms and between organisms and the abiotic environment where they occur. According to Coutinho (2002), only the Amazon and Atlantic forests exceed the Brazilian *Cerrado* in species richness.

The importance of *Cerrado* in Brazil lies unquestionably on its high biodiversity (Bitencourt 2004). The municipality of Bauru is located in a climatic zone intermediate between tropical and southern temperate, which gives its ecosystems a different feature from that of the *Cerrado* core area regarding adaptation (Cavassan et al. 2006), especially because of occasional frosts, which do not occur in the central-north part of this biome (Cavassan 2002, Durigan et al. 2004).

At present, *cerrado* remnants in the state of São Paulo are disjunct fragments. Few of these fragments are protected within state conservation units (Cavassan 2002). In the state of São Paulo, the *cerrado* is distributed mainly in the Peripheral Depression, from north to south, along the line of the Basaltic Cuestas, expanding to some regions of the Western Plateau (Durigan et al. 2004), where it is distributed in mosaics between seasonal forest and riparian formations in the valleys. In this paper, we consider as riparian formations those adjacent to bodies of water (Rodrigues 2000). The same distribution is observed in the Bauru region (Cavassan 2013). Durigan et al. (2003) discussed *cerrado* phytogeographical patterns in São Paulo from a regional perspective and demonstrated the existence of two floristic groups: eastern *cerrados*, together with open physiognomies in the states of Mato Grosso do Sul and Goiás and the Triângulo Mineiro; and western *cerradões* (woodland savannas), located basically in the state of São

Paulo. According to Durigan et al. (2003), the *cerrado* of the municipality of Bauru belongs to the latter group.

The transition between different *cerrado* physiognomies and seasonal forests in the state of São Paulo occurs, in general, in a gradient of different extensions (Durigan et al. 2012), not always clearly limited. This often hinders the identification and delimitation of *cerrado* areas, especially during supervision or vegetation management processes. According to Durigan et al. (2012), the vegetation floristic structure is important in its classification.

Just as it is difficult to establish the limits between *cerrado* vegetations and seasonal forests in Bauru, it is not safe to define which plant species are typical of each of these plant formations. For this reason, this article aims at building a single table of tracheophyte plant species based on species occurrence in fragments considered *cerrado sensu lato* or in ecotonal areas (transitions between *cerrado* and seasonal forest), in addition to recording the existence of these species in other vegetation types in the municipality of Bauru.

Material and Methods

Bauru is located in the central-west region of the state of São Paulo, in southeastern Brazil. The climate is highland tropical, type Cwa, according to Koeppen (1948), with an average yearly rainfall of 1262.9 mm between 2001 and 2014 (Emídio 2014), featuring dry and mild winters – minimum average temperature of 13.6 °C and maximum average temperature of 25.7 °C (Emídio 2014) – and rainy summers with moderately high temperatures, with the maximum average temperature occurring after the summer solstice (Cavassan et al. 1984) – minimum average temperature of 19.8 °C and maximum average temperature of 30.4 °C (Emídio 2014). In this region, soil types are Dark Red Latosol, sandy phase, and Red Yellow Acrisol, generally found in steeper hillsides, both with medium to sandy texture, probably derived from the Bauru sandstone (Cavassan et al. 1984).

Bauru has a vegetation complex composed of *cerrado*, mostly represented by *cerradão* (woodland savanna). This vegetation type prevails in southeastern interfluvial areas. In the valleys, the vegetation types are swamp grasslands of *cerrado* and permanently flooded riparian forests (Rodrigues 2000), popularly known as swamp forests. In the northwest, fragments of montane semideciduous seasonal forest (IBGE 2012) prevail. Between fragments of *cerradão* and montane seasonal semideciduous forest, we usually find transition areas (Cavassan 2013).

To prepare a floristic list of the vascular species that occur in the *cerrado* of Bauru (Table 1), we systematized all other lists found in surveys carried out in areas of *cerrado* (Ferracini et al. 1983, Cavassan 1990, Koch 1994, Christianini & Cavassan 1998, Koch & Kinoshita 1999, Pinheiro 2000, Pinheiro & Monteiro 2006, Genovez 2007, Faraco 2007, Weiser 2007, Nóbrega & Prado 2008, Pinheiro & Monteiro 2008, Rissi 2011, and Joanitti 2013), within the following limits: 22°14'46.35"-22°21'58.63" South, 48°54'13.40"-49°02'42.09" West. These limits represent the estimated area covered by *cerrado* within the municipality. We included all exsiccates mentioned in the references above and also all botanic material collected in Bauru and deposited in the herbaria of the Department of Biological Sciences, School of Sciences, Bauru Campus, UNESP (UNBA), and of the Bauru Botanical Garden (JBMB).

Moreover, we occasionally searched for vouchers from species collected in Bauru on the Specieslink (2014) database to supplement information recorded in some exsiccates.

These studies, published at different times, comply with spelling and taxonomic classifications effective at the time they were written. To prepare a single list, we updated the nomenclature according to the database Tropicos (Tropicos.org. Missouri Botanical Garden 2013) and the abbreviations of authors' names according to The International Plant Names Index (2012). Only taxa identified and confirmed to the species level were included. The classification system employed was the Angiosperm Phylogeny Group (APG III 2009), with recent updates from the Angiosperm Phylogeny Website (Stevens 2001 onwards) and Souza & Lorenzi (2012). We have verified valid scientific names in the databases The Plant List (2010) and Lista de Espécies da Flora do Brasil (2013) and checked them against synonyms often cited in our references and in the exsiccates from the UNBA and JBMB herbaria.

The occurrence of some species in the *cerrado* does not necessarily demonstrate that they are endemic to this vegetation type. For this reason, the nature of these species was searched in Lista de Espécies da Flora do Brasil (2013), as suggested by Moro et al. (2012).

Plant habits were indicated as follows: Climber (Climber) – vascular, autotrophic plants that germinate in the ground, with which they are in contact for their entire life cycle, and that need a support (phorophyte) to develop branches; Epiphyte (Epi.) – vascular plants that need a support to grow, without parasitizing it, and have no contact with the ground; Hemiepiphyte (Hemiepi.) – vascular, autotrophic plants that germinate on others and later send and establish roots in the ground (primary) or that germinate in the ground, grow on other plants, and later break their link or connection to the ground (secondary); Herb (Herb) – sub-woody plants or plants with stalk or rhizome, with terminal gemmae above the ground, not more than one meter high; Palm (Palm) – all plants of the Arecaceae family; Shrub or tree (St) – vascular plants with woody, aerial, erect stems at least 50 centimeters high; Vascular saprophyte (Vs) – vascular, saprophytic, heterotrophic plants; Vascular hemiparasite (Vh) – autotrophic plants that grow on other plants and extract their raw sap.

We showed other vegetation types of the municipality of Bauru where the species occur besides the *cerrado*, according to the following criterion: montane semideciduous seasonal forest (mssf) (IBGE 2012), permanently flooded riparian forest (prfr), and non-flooded riparian forest (nfrf) (Rodrigues 2000). Species from swamp grasslands formations occurring in the transition between the *cerrado* and the permanently flooded riparian forests were not included in Table 1, although Nóbrega & Prado (2008) included in their list the Pteridophyte species sampled in that environment.

Results and Discussion

We observed and recorded 371 tracheophyte species from 78 families in the *cerrado* fragments of the municipality of Bauru, SP (Table 1).

The most species-rich family is Fabaceae (10.2%), followed by Asteraceae (8.6%), Bignoniaceae (6.2%), Malpighiaceae (5.1%), Myrtaceae (4.6%), Rubiaceae (4.6%), Apocynaceae (3.8%), and Melastomataceae (3.2%). The family ranked first in

Table 1. List of vascular species found in the *cerrado* fragments of the municipality of Bauru, indicating family, species, synonyms, habit, other vegetation types of the municipality where the plants occur, voucher number at herbaria UNBA or JBMB, and collector number. Asterisks indicate the naturalized species. Key to habit: Climber = Climber, Epi. = Epiphyte, Hemiepi. = Hemiepiphyte, Herb = Herb, Palm = Palm, St = Shrub or tree, Vs = Vascular saprophyte, and Vh = Vascular hemiparasite. Key to other vegetation types: mssf = montane semideciduous seasonal forest, pfrf = permanently flooded riparian forest, and nfrf = non-flooded riparian forest.

FAMILY / SPECIES/ [SYNONYMS]	HABIT	OTHER VEGETATION TYPE	VOUCHER NUMBER	COLLECTOR NUMBER
ANACARDIACEAE				
<i>Anacardium humile</i> A.St.-Hil.	Herb		UNBA 5935	A.L. Giles 62
<i>Lithraea molleoides</i> (Vell.) Engl.	St	mssf	UNBA 5911	V. de L. Weiser 866
<i>Tapirira guianensis</i> Aubl.	St	mssf, pfrf, nfrf	UNBA 3900	O. Cavassan 390
ANEMIACEAE				
<i>Anemia phyllitidis</i> (L.) Sw.	Herb	mssf	UNBA 5962	A.G. Faraco s/n
<i>Anemia villosa</i> Humb. & Bonpl. ex Willd.	Herb	mssf	UNBA 3486	G.A. Nóbrega 65
ANNONACEAE				
<i>Annona cacans</i> Warm.	St	mssf	UNBA 5912	V. de L. Weiser 867
<i>Annona coriacea</i> Mart.	St	mssf	UNBA 4072	M.N. Rissi 89
<i>Annona crassiflora</i> Mart.	St		UNBA 5212	M.N. Rissi 152
<i>Annona dioica</i> A.St.-Hil.	St		UNBA 5936	A.L. Giles 63
<i>Duguetia furfuracea</i> (A.St.-Hil.) Saff.	St		UNBA 5862	A.L. Giles 26
<i>Xylopia aromatica</i> (Lam.) Mart.	St	mssf	JBMB 0209	V. de L. Weiser 291
APOCYNACEAE				
<i>Aspidosperma cylindrocarpon</i> Müll.Arg.	St	mssf	UNBA 5913	V. de L. Weiser 868
<i>Aspidosperma tomentosum</i> Mart.	St		UNBA 3909	O. Cavassan 342
<i>Forsteronia glabrescens</i> Müll.Arg.	Climber	mssf, nfrf	UNBA 5897	V. de L. Weiser 852
<i>Forsteronia velloziana</i> (A.DC.) Woodson	Climber		JBMB 0664	V. de L. Weiser 553
<i>Himatanthus obovatus</i> (Müll.Arg.) Woodson	St		JBMB 0483	V. de L. Weiser 382
<i>Macroditassa adnata</i> (E.Fourn.) Malme	Climber		JBMB 0709	V. de L. Weiser 600
<i>Odontadenia lutea</i> (Vell.) Markgr.	Climber		JBMB 0717	V. de L. Weiser 607
<i>Oxypetalum appendiculatum</i> Mart.	Climber	mssf	UNBA 0305	O. Cavassan 284
<i>Peltastes peltatus</i> (Vell.) Woodson (*)	Climber		UNBA 0389	O. Cavassan 389
<i>Prestonia coalita</i> (Vell.) Woodson	Climber	mssf, nfrf	JBMB 0811	V. de L. Weiser 680
<i>Prestonia erecta</i> (Malme) J.F.Morales	St		UNBA 3361	A.G. Faraco 38
[<i>Rhodocalyx rotundifolius</i> Müll.Arg.]				
<i>Secondatia densiflora</i> A.DC.	Climber	nfrf	UNBA 5346	B.M. Palma 84
<i>Tabernaemontana catharinensis</i> A.DC.	St	mssf, nfrf	UNBA 0509	M.H.O. Pinheiro 379
[<i>Peschiera australis</i> (Müll.Arg.) Miers]				
<i>Temnadenia violacea</i> (Vell.) Miers	Climber		JBMB 0478	V. de L. Weiser 377
ARALIACEAE				
<i>Dendropanax cuneatus</i> (DC.) Decne. & Planch.	St	mssf, pfrf	UNBA 3041	M.H.O. Pinheiro 361
<i>Schefflera vinosa</i> (Cham. & Schltdl.) Frodin & Fiaschi	St	mssf	UNBA 3906	O. Cavassan 131
[<i>Didymopanax vinosus</i> (Cham. & Schltdl.) Marchal]				
ARECACEAE				
<i>Acrocomia aculeata</i> (Jacq.) Lodd. ex Mart.	Palm	mssf, pfrf, nfrf	UNBA 3416	P.R. Genovez 21
<i>Acrocomia hassleri</i> (Barb.Rodr.) W.J.Hahn	Palm		UNBA 3419	P.R. Genovez 40
<i>Allagoptera campestris</i> (Mart.) Kuntze	Palm		UNBA 5875	A.L. Giles 39
<i>Butia paraguayensis</i> (Barb.Rodr.) L.H.Bailey	Palm		UNBA 3437	P.R. Genovez 10
<i>Syagrus flexuosa</i> (Mart.) Becc.	Palm	mssf	UNBA 3436	P.R. Genovez 16
<i>Syagrus romanzoffiana</i> (Cham.) Glassman	Palm	mssf, nfrf	UNBA 5927	V. de L. Weiser 882
ARISTOLOCHIACEAE				
<i>Aristolochia esperanzae</i> Kuntze	Climber		JBMB 0087	V. de L. Weiser 135
<i>Aristolochia melastoma</i> Silva Manso ex Duch.	Climber	mssf	JBMB 0465	V. de L. Weiser 364
ASTERACEAE				
<i>Achyrocline satureioides</i> (Lam.) DC.	St		UNBA 5800	A.L. Giles 1
<i>Acilepidopsis echitifolia</i> (Mart. ex DC.) H.Rob.	St		UNBA 5802	A.L. Giles 3
[<i>Vernonia echitifolia</i> Mart. ex DC.]				
<i>Austroeuatorium inulifolium</i> (Kunth) R.M.King & H.Rob.	St		UNBA 5801	A.L. Giles 2
[<i>Eupatorium inulifolium</i> Kunth]				
<i>Baccharis caprariifolia</i> DC.	St		UNBA 0279	M.H.O. Pinheiro 821

Table 1. Continued.

FAMILY / SPECIES/ [SYNONIMS]	HABIT	OTHER VEGETATION TYPE	VOUCHER NUMBER	COLLECTOR NUMBER
<i>Baccharis dracunculifolia</i> DC.	St	mssf	UNBA 5881	A.L. Giles 45
<i>Baccharis pseudotenueifolia</i> Malag.	St		UNBA 4012	M.N. Rissi 56
<i>Bidens segetum</i> Mart. ex Colla	Herb	pfrf	UNBA 3891	M. Carboni 210
<i>Chaptalia integerrima</i> (Vell.) Burkart	Herb		UNBA 5809	A.L. Giles 10
<i>Chromolaena cylindrocephala</i> (Sch.Bip. ex Baker) R.M.King & H.Rob.	St		UNBA 5891	A.L. Giles 55
[<i>Eupatorium cylindrocephalum</i> Sch.Bip. ex Baker]				
<i>Chromolaena squalida</i> (DC.) R.M.King & H.Rob.	St		UNBA 5804	A.L. Giles 5
[<i>Eupatorium squalidum</i> DC.]				
<i>Chromolaena laevigata</i> (Lam.) R.M.King & H.Rob.	St		UNBA 5890	A.L. Giles 54
[<i>Eupatorium laevigatum</i> Lam.]				
<i>Clibadium armanii</i> (Balb.) Sch.Bip. ex O.E.Schulz (*)	St		UNBA 5892	A.L. Giles 56
<i>Elephantopus micropappus</i> Less.	St		UNBA 5811	A.L. Giles 12
<i>Elephantopus mollis</i> Kunth	Herb	pfrf	UNBA 5810	A.L. Giles 11
<i>Gochnatia barrosii</i> Cabrera	St		UNBA 1563	O. Cavassan 338
<i>Gochnatia polymorpha</i> (Less.) Cabrera	St	mssf	UNBA 5805	A.L. Giles 6
<i>Gochnatia pulchra</i> Cabrera	St		UNBA 1573	O. Cavassan 229
<i>Lepidaploa acutiangula</i> (Gardner) H.Rob.	St		UNBA 5812	A.L. Giles 15
[<i>Vernonia acutangula</i> Gardner]				
<i>Lepidaploa cotoneaster</i> (Willd. ex Spreng.) H.Rob.	St		UNBA 5893	A.L. Giles 57
<i>Lepidaploa rufogrisea</i> (A.St.-Hil.) H.Rob.	St		UNBA 5807	A.L. Giles 8
[<i>Vernonia tricephala</i> Gardner]				
<i>Lepidaploa salzmännii</i> (DC.) H.Rob.	St		UNBA 5803	A.L. Giles 4
[<i>Vernonia salzmännii</i> DC.]				
<i>Lessingianthus bardanoides</i> (Less.) H.Rob.	St		UNBA 5889	A.L. Giles 53
[<i>Vernonia bardanoides</i> Less.]				
<i>Mikania campanulata</i> Gardner	Climber	pfrf	JBMB 0628	V. de L. Weiser 597
<i>Mikania cordifolia</i> (L.f.) Willd.	Climber		JBMB 0037	V. de L. Weiser 85
<i>Mikania hirsutissima</i> DC.	Climber		UNBA 5898	V. de L. Weiser 853
<i>Piptocarpha rotundifolia</i> (Less.) Baker	St	mssf	UNBA 1498	O. Cavassan 537
<i>Porophyllum ruderales</i> (Jacq.) Cass.	St		UNBA 5808	A.L. Giles 9
<i>Pterocaulon lanatum</i> Kuntze	St		UNBA 5806	A.L. Giles 7
<i>Tilesia baccata</i> (L.) Pruski (*)	Herb		UNBA 5955	A.L. Giles 82
<i>Vernonanthura brasiliensis</i> (L.) H.Rob.	St		UNBA 0263	M.H.O. Pinheiro 378
<i>Vernonanthura membranacea</i> (Gardner) H.Rob.	St		UNBA 5887	A.L. Giles 51
[<i>Vernonia membranacea</i> Gardner]				
<i>Vernonia rubriramea</i> Mart. ex DC.	St		UNBA 1106	M.H.O. Pinheiro 285
BIGNONIACEAE				
<i>Adenocalymma peregrinum</i> (Miers) L.G.Lohmann	Climber		JBMB 0782	V. de L. Weiser 651
[<i>Memora peregrina</i> (Miers) Sandwith]				
<i>Amphilophium elongatum</i> (Vahl) L.G.Lohmann	Climber	mssf	JBMB 0475	V. de L. Weiser 374
[<i>Distictella elongata</i> (Vahl) Urb.]				
<i>Anemopaegma arvense</i> (Vell.) Stellfeld ex de Souza	St		UNBA 5937	A.L. Giles 64
<i>Cuspidaria floribunda</i> (DC.) A.H.Gentry	Climber	mssf	JBMB 0076	V. de L. Weiser 124
[<i>Adenocalymma floribundum</i> A.DC.]				
<i>Cuspidaria pulchra</i> (Cham.) L.G.Lohmann	Climber	mssf	JBMB 0491	V. de L. Weiser 390
[<i>Arrabidaea pulchra</i> (Cham.) Sandwith]				
<i>Cybistax antisiphilitica</i> (Mart.) Mart.	St		UNBA 4043	M.N. Rissi 81
<i>Dolichandra unguis-cati</i> (L.) L.G.Lohmann	Climber	mssf	UNBA 5899	V. de L. Weiser 854
[<i>Macfadyena unguis-cati</i> (L.) A.H.Gentry]				
<i>Fridericia chica</i> (Bonpl.) L.G.Lohmann	Climber		JBMB 0781	V. de L. Weiser 650
[<i>Arrabidaea chica</i> (Bonpl.) Verl.]				
<i>Fridericia craterophora</i> (DC.) L.G.Lohmann	Climber	mssf	JBMB 0451	V. de L. Weiser 350
[<i>Arrabidaea craterophora</i> (DC.) Bureau]				
<i>Fridericia platyphylla</i> (Cham.) L.G.Lohmann	St		JBMB 0454	V. de L. Weiser 353
[<i>Arrabidaea brachypoda</i> (DC.) Bureau]				

Table 1. Continued.

FAMILY / SPECIES/ [SYNONIMS]	HABIT	OTHER VEGETATION TYPE	VOUCHER NUMBER	COLLECTOR NUMBER
<i>Fridericia pulchella</i> (Cham.) L.G.Lohmann [<i>Arrabidaea pulchella</i> (Cham.) Bureau]	Climber	mssf	UNBA 5900	V. de L. Weiser 855
<i>Fridericia speciosa</i> Mart.	Climber		UNBA 5932	V. de L. Weiser 887
<i>Fridericia triplinervia</i> (Mart. ex DC.) L.G.Lohmann [<i>Arrabidaea triplinervia</i> (Mart. ex DC.) Baill. ex Bureau]	Climber	mssf	JBMB 0453	V. de L. Weiser 352
<i>Handroanthus ochraceus</i> (Cham.) Mattos [<i>Tabebuia ochracea</i> (Cham.) Standl.]	St	mssf	UNBA 5938	A.L. Giles 65
<i>Jacaranda decurrens</i> Cham.	St		UNBA 5939	A.L. Giles 66
<i>Jacaranda rufa</i> Silva Manso	St		JBMB 0057	V. de L. Weiser 105
<i>Mansoa difficilis</i> (Cham.) Bureau & K.Schum.	Climber	mssf	UNBA 5901	V. de L. Weiser 856
<i>Pyrostegia venusta</i> (Ker Gawl.) Miers	Climber	mssf	JBMB 0014	V. de L. Weiser 62
<i>Stizophyllum perforatum</i> (Cham.) Miers	Climber		UNBA 5257	A.G. Faraco 161
<i>Stizophyllum riparium</i> (Kunth) Sandwith	Climber		JBMB 0071	V. de L. Weiser 119
<i>Tabebuia aurea</i> (Silva Manso) Benth. & Hook.f. ex S.Moore [<i>Tabebuia caraiba</i> (Mart.) Bureau]	St		UNBA 5940	A.L. Giles 67
<i>Zeyheria montana</i> Mart.	St		JBMB 0178	V. de L. Weiser 240
<i>Zeyheria tuberculosa</i> (Vell.) Bureau ex Verl.	St	mssf	UNBA 5914	V. de L. Weiser 869
BIXACEAE				
<i>Cochlospermum regium</i> (Schrank) Pilg.	St		UNBA 5240	J.A. Ribeiro 16
BORAGINACEAE				
<i>Heliotropium transalpinum</i> Vell.	Herb		UNBA 3040	M.H.O. Pinheiro 298
BROMELIACEAE				
<i>Acanthostachys strobilacea</i> (Schult. & Schult.f.) Klotzsch	Epi.	pfrf	UNBA 5356	S.A. Joanitti 2
<i>Ananas ananassoides</i> (Baker) L.B.Sm.	Herb		UNBA 5941	A.L. Giles 68
<i>Billbergia zebrina</i> (Herb.) Lindl.	Epi.		UNBA 5367	S.A. Joanitti 13
<i>Bromelia antiacantha</i> Bertol.	Herb		UNBA 5506	A.G. Faraco 370
<i>Bromelia balansae</i> Mez	Herb		UNBA 5942	A.L. Giles 69
<i>Tillandsia loliacea</i> Mart. ex Schult. & Schult.f.	Epi.		UNBA 5386	S.A. Joanitti 32
<i>Tillandsia pohliana</i> Mez	Epi.		UNBA 5370	S.A. Joanitti 16
<i>Tillandsia recurvata</i> (L.) L.	Epi.		UNBA 5360	S.A. Joanitti 6
<i>Tillandsia tenuifolia</i> L.	Epi.	pfrf	UNBA 5797	S.A. Joanitti 37
<i>Tillandsia tricholepis</i> Baker	Epi.		UNBA 5394	S.A. Joanitti 40
<i>Tillandsia usneoides</i> (L.) L.	Epi.	mssf, pfrf	UNBA 5933	V. de L. Weiser 888
BURSERACEAE				
<i>Protium heptaphyllum</i> (Aubl.) Marchand	St	mssf	UNBA 1568	O. Cavassan 325
CACTACEAE				
<i>Cereus hildmannianus</i> K.Schum.	St		UNBA 5943	A.L. Giles 70
<i>Epiphyllum phyllanthus</i> (L.) Haw.	Epi.		UNBA 5375	S.A. Joanitti 21
CALOPHYLLACEAE				
<i>Kielmeyera coriacea</i> Mart. & Zucc.	St	mssf	UNBA 5490	A.G. Faraco 312
<i>Kielmeyera rubriflora</i> Cambess.	St		UNBA 5001	M.N. Rissi 139
<i>Kielmeyera variabilis</i> Mart. & Zucc.	St		JBMB 0777	V. de L. Weiser 646
CANNABACEAE				
<i>Celtis spinosa</i> Spreng. [<i>Celtis pubescens</i> (Kunth) Spreng.]	St	mssf	UNBA 2231	M.H.O. Pinheiro 627
<i>Trema micrantha</i> (L.) Blume	St	mssf	UNBA 5958	A.L. Giles 85
CARYOCARACEAE				
<i>Caryocar brasiliense</i> Cambess.	St		UNBA 5657	M.N. Rissi 410
CELASTRACEAE				
<i>Peritassa campestris</i> (Cambess.) A.C.Sm.	Herb		UNBA 0083	O. Cavassan s/n
<i>Plenckia populnea</i> Reissek [<i>Austroplenckia populnea</i> (Reissek) Lundell]	St		UNBA 3600	M.N. Rissi 4
CHRYSOBALANACEAE				
<i>Couepia grandiflora</i> (Mart. & Zucc.) Benth. ex Hook.f.	St		UNBA 1565	O. Cavassan 309

Table 1. Continued.

FAMILY / SPECIES/ [SYNONIMS]	HABIT	OTHER VEGETATION TYPE	VOUCHER NUMBER	COLLECTOR NUMBER
<i>Licania humilis</i> Cham. & Schltld. COMBRETACEAE	St		UNBA 1285	O. Cavassan 500
<i>Terminalia argentea</i> Mart.	St	mssf	JBMB 0774	V. de L. Weiser 643
<i>Terminalia glabrescens</i> Mart. [<i>Terminalia brasiliensis</i> (Cambess. ex A.St.-Hil.) Eichler]	St	mssf	UNBA 1564	O. Cavassan 329
COMMELINACEAE				
<i>Tradescantia zebrina</i> Heynh. (*) CONNARACEAE	Hemiepi.		UNBA 5359	S.A. Joanitti 5
<i>Connarus suberosus</i> Planch.	St	mssf	UNBA 1456	O. Cavassan 506
<i>Rourea induta</i> Planch. var. <i>induta</i> CONVOLVULACEAE	St		UNBA 5883	A.L. Giles 47
<i>Ipomoea virgata</i> Meisn.	Herb		JBMB 0812	V. de L. Weiser 681
<i>Merremia dissecta</i> (Jacq.) Hallier f. CUNONIACEAE	Climber	mssf	JBMB 0458	V. de L. Weiser 357
<i>Lamanonia ternata</i> Vell. CYPERACEAE	St	mssf	JBMB 0666	V. de L. Weiser 555
<i>Rhynchospora exaltata</i> Kunth DENNSTAEDTIACEAE	Herb		UNBA 5481	A.G. Faraco 374
<i>Pteridium arachnoideum</i> (Kaulf.) Maxon [<i>Pteris arachnoidea</i> Kaulf.] DILLENACEAE	Herb		UNBA 5944	A.L. Giles 71
<i>Curatella americana</i> L.	St		UNBA 5492	A.G. Faraco 326
<i>Davilla elliptica</i> A.St.-Hil.	St		UNBA 5879	A.L. Giles 43
<i>Davilla rugosa</i> Poir.	Climber		JBMB 0012	V. de L. Weiser 60
<i>Doliocarpus dentatus</i> (Aubl.) Standl. EBENACEAE	Climber	mssf, pfrf	JBMB 0041	V. de L. Weiser 89
<i>Diospyros hispida</i> A.DC. ERYTHROXYLACEAE	St		UNBA 5945	A.L. Giles 72
<i>Erythroxylum campestre</i> A.St.-Hil.	St		UNBA 5495	A.G. Faraco 340
<i>Erythroxylum cuneifolium</i> (Mart.) O.E.Schulz	St		UNBA 0269	M.H.O. Pinheiro 543
<i>Erythroxylum deciduum</i> A.St.-Hil.	St		UNBA 5421	A.G. Faraco 101
<i>Erythroxylum pelleterianum</i> A.St.-Hil.	St	mssf	UNBA 3588	S.R. Christianini 18
<i>Erythroxylum suberosum</i> A.St.-Hil.	St		UNBA 0266	M.H.O. Pinheiro 463
<i>Erythroxylum subracemosum</i> Turcz.	St	mssf, pfrf	JBMB 0641	V. de L. Weiser 530
<i>Erythroxylum tortuosum</i> Mart. EUPHORBIACEAE	St		UNBA 1455	O. Cavassan 507
<i>Actinostemon klotzschii</i> (Didr.) Pax [<i>Actinostemon conceptionis</i> (Chodat & Hassl.) Hochr.]	St	mssf	JBMB 0217	V. de L. Weiser 302
<i>Croton floribundus</i> Spreng.	St	mssf	UNBA 5946	A.L. Giles 73
<i>Manihot tripartita</i> (Spreng.) Müll.Arg.	St		UNBA 5934	V. de L. Weiser 889
<i>Sapium glandulosum</i> (L.) Morong [<i>Sapium glandulatum</i> (Vell.) Pax]	St		UNBA 2250	M.H.O. Pinheiro 538
<i>Sapium obovatum</i> Klotzsch ex Müll.Arg. FABACEAE	St		UNBA 5915	V. de L. Weiser 870
<i>Acosmium subelegans</i> (Mohlenbr.) Yakovlev	St		UNBA 1310	O. Cavassan 400
<i>Anadenanthera peregrina</i> var. <i>falcata</i> (Benth.) Altschul [<i>Anadenanthera falcata</i> (Benth.) Speg.]	St		JBMB 0613	V. de L. Weiser 502
<i>Andira humilis</i> Mart. ex Benth.	St		UNBA 5947	A.L. Giles 74
<i>Andira vermifuga</i> Mart. ex Benth.	St		UNBA 5916	V. de L. Weiser 871
<i>Bauhinia forficata</i> Link	St	mssf	UNBA 2172	M. Carboni s/n
<i>Bauhinia holophylla</i> (Bong.) Steud.	St	mssf	JBMB 0611	V. de L. Weiser 500
<i>Bauhinia unguolata</i> L.	St		JBMB 0128	V. de L. Weiser 203
<i>Bowdichia virgilioides</i> Kunth	St		UNBA 1308	O. Cavassan 499
<i>Camptosema ellipticum</i> (Desv.) Burkart	St		JBMB 0036	V. de L. Weiser 84
<i>Canavalia grandiflora</i> Benth.	Climber	mssf	JBMB 0174	V. de L. Weiser 232

Table 1. Continued.

FAMILY / SPECIES/ [SYNONIMS]	HABIT	OTHER VEGETATION TYPE	VOUCHER NUMBER	COLLECTOR NUMBER
<i>Clitoria falcata</i> Lam.	Climber	mssf	UNBA 5903	V. de L. Weiser 858
<i>Copaifera langsdorffii</i> Desf.	St	mssf, nfrf	UNBA 1933	O. Cavassan 438
<i>Crotalaria martiana</i> subsp. <i>mohlenbrockii</i> (Windler & S. G.Skinner) Planchuelo	Herb		UNBA 5886	A.L. Giles 50
<i>Dalbergia miscolobium</i> Benth.	St	mssf	JBMB 0459	V. de L. Weiser 358
[<i>Dalbergia violacea</i> (Vogel) Malme]				
<i>Dimorphandra mollis</i> Benth.	St		UNBA 3609	M.N. Rissi 15
<i>Diptychandra aurantiaca</i> Tul.	St		UNBA 5219	M.N. Rissi 154
<i>Enterolobium contortisiliquum</i> (Vell.) Morong	St	mssf	UNBA 0966	O. Cavassan 2054
<i>Enterolobium gummiferum</i> (Mart.) J.F.Macbr.	St		JBMB 0633	V. de L. Weiser 522
<i>Eriosema crinitum</i> (Kunth) G.Don	Herb	mssf	UNBA 5502	A.G. Faraco 361
<i>Hymenaea stigonocarpa</i> Mart. ex Hayne	St		UNBA 5931	V. de L. Weiser 886
<i>Inga affinis</i> DC.	St	mssf	UNBA 5957	A.L. Giles 84
<i>Inga marginata</i> Willd.	St	mssf	UNBA 1116	M.H.O. Pinheiro 241
<i>Machaerium acutifolium</i> Vogel	St	mssf	UNBA 1311	O. Cavassan 419
<i>Machaerium brasiliense</i> Vogel	St	mssf	UNBA 5917	V. de L. Weiser 872
<i>Macroptilium atropurpureum</i> (Moc. & Sessé ex DC.) Urb. (*)	Climber		UNBA 5470	A.G. Faraco 87
<i>Mimosa dolens</i> Vell.	Herb		UNBA 5884	A.L. Giles 48
<i>Plathymenia reticulata</i> Benth.	St	mssf	UNBA 1307	O. Cavassan 216
<i>Platypodium elegans</i> Vogel	St	mssf	JBMB 0235	V. de L. Weiser 321
<i>Pterodon emarginatus</i> Vogel	St		UNBA 1470	O. Cavassan 532
<i>Rhynchosia phaseoloides</i> (Sw.) DC.	Climber	mssf, pfrf	UNBA 5904	V. de L. Weiser 859
<i>Sclerolobium aureum</i> (Tul.) Baill.	St		UNBA 3585	G.M. Marconato 3
<i>Senna rugosa</i> (G.Don) H.S.Irwin & Barneby	St		UNBA 5867	A.L. Giles 31
<i>Senna silvestris</i> (Vell.) H.S.Irwin & Barneby	St	mssf	JBMB 0098	V. de L. Weiser 146
<i>Stryphnodendron adstringens</i> (Mart.) Coville	St		UNBA 2240	M.H.O. Pinheiro 803
<i>Stryphnodendron rotundifolium</i> Mart.	St	mssf	JBMB 0467	V. de L. Weiser 366
<i>Stylosanthes guianensis</i> (Aubl.) Sw.	St	pfrf	UNBA 5880	A.L. Giles 44
<i>Teramnus uncinatus</i> (L.) Sw.	Climber	mssf	UNBA 5905	V. de L. Weiser 860
<i>Vatairea macrocarpa</i> (Benth.) Ducke	St		UNBA 5918	V. de L. Weiser 873
GENTIANACEAE				
<i>Voyria aphylla</i> (Jacq.) Pers.	Vs		UNBA 5443	A.G. Faraco 168
LACISTEMATACEAE				
<i>Lacistema hasslerianum</i> Chodat	St	mssf	UNBA 3678	S.R. Christianini 37
LAMIACEAE				
<i>Aegiphila lhotskiana</i> Cham.	St		UNBA 4055	M.N. Rissi 84
<i>Aegiphila sellowiana</i> Cham.	St	mssf	UNBA 0506	M.H.O. Pinheiro 329
<i>Eriope crassipes</i> Benth.	Herb		UNBA 5500	A.G. Faraco 358
LAURACEAE				
<i>Ocotea corymbosa</i> (Meisn.) Mez	St	mssf	UNBA 1400	O. Cavassan 429
<i>Ocotea diospyrifolia</i> (Meisn.) Mez	St		UNBA 3919	O. Cavassan 512
<i>Ocotea minarum</i> (Nees & Mart.) Mez	St	mssf	UNBA 0257	M.H.O. Pinheiro 297
<i>Ocotea puberula</i> (Rich.) Nees	St	mssf	JBMB 0701	V. de L. Weiser 591
<i>Ocotea pulchella</i> (Nees & Mart.) Mez	St	mssf	UNBA 3920	O. Cavassan 514
<i>Ocotea velloziana</i> (Meisn.) Mez	St	mssf	UNBA 5948	A.L. Giles 75
LOGANIACEAE				
<i>Strychnos bicolor</i> Progel	Climber		UNBA 5906	V. de L. Weiser 861
<i>Strychnos pseudoquina</i> A.St.-Hil.	St		JBMB 0052	V. de L. Weiser 100
LYTHRACEAE				
<i>Lafoensia pacari</i> A.St.-Hil.	St	mssf	UNBA 0252	M.H.O. Pinheiro 221
MALPIGHIACEAE				
<i>Banisteriopsis anisandra</i> (A.Juss.) B.Gates	Climber	mssf, nfrf	JBMB 0077	V. de L. Weiser 125
<i>Banisteriopsis argyrophylla</i> (A.Juss.) B.Gates	Climber	mssf	JBMB 0472	V. de L. Weiser 371
<i>Banisteriopsis oxyclada</i> (A.Juss.) B.Gates	Climber		JBMB 0119	V. de L. Weiser 175
<i>Banisteriopsis stellaris</i> (Griseb.) B.Gates	Climber		JBMB 0045	V. de L. Weiser 93

Table 1. Continued.

FAMILY / SPECIES/ [SYNONIMS]	HABIT	OTHER VEGETATION TYPE	VOUCHER NUMBER	COLLECTOR NUMBER
<i>Banisteriopsis variabilis</i> B.Gates	Climber		JBMB 0113	V. de L. Weiser 163
<i>Byrsonima coccolobifolia</i> Kunth	St	pfrf	UNBA 1287	O. Cavassan 549
<i>Byrsonima crassa</i> Nied.	St		UNBA 5949	A.L. Giles 76
<i>Byrsonima crassifolia</i> (L.) Kunth	St		UNBA 5929	V. de L. Weiser 884
<i>Byrsonima intermedia</i> A.Juss.	St		UNBA 1277	O. Cavassan 423
<i>Byrsonima laxiflora</i> Griseb.	St		JBMB 0438	V. de L. Weiser 337
<i>Byrsonima pachyphylla</i> A.Juss.	St		UNBA 1290	O. Cavassan 447
<i>Byrsonima verbascifolia</i> (L.) DC.	St		UNBA 1289	O. Cavassan 519
<i>Diplopterys pubipetala</i> (A.Juss.) W.R.Anderson & C.Davis	Climber	mssf	JBMB 0246	V. de L. Weiser 336
[<i>Banisteriopsis pubipetala</i> (A.Juss.) Cuatrec.]				
<i>Heteropterys byrsonimifolia</i> A.Juss.	St		UNBA 5661	M.N. Rissi 497
<i>Heteropterys cochleosperma</i> A.Juss.	Climber		UNBA 5255	A.G. Faraco 64
<i>Heteropterys pteropetala</i> A.Juss.	Climber		JBMB 0011	V. de L. Weiser 59
<i>Heteropterys syringifolia</i> Griseb.	Climber		UNBA 5907	V. de L. Weiser 862
<i>Heteropterys umbellata</i> A.Juss.	Climber		UNBA 5120	A.G. Guimarães 7
<i>Mascagnia cordifolia</i> (A.Juss.) Griseb.	Climber	mssf	JBMB 00751	V. de L. Weiser 621
MALVACEAE				
<i>Eriotheca gracilipes</i> (K.Schum.) A.Robyns	St	mssf	UNBA 1457	O. Cavassan 263
<i>Guazuma ulmifolia</i> Lam.	St	mssf	JBMB 0124	V. de L. Weiser 194
<i>Helicteres brevispira</i> A.St.-Hil.	St		UNBA 5453	A.G. Faraco 61
<i>Helicteres sacarolha</i> A.St.-Hil., A.Juss. & Cambess.	St		UNBA 5873	A.L. Giles 37
<i>Luehea grandiflora</i> Mart.	St	mssf	JBMB 0062	V. de L. Weiser 110
<i>Pavonia biflora</i> Fryxell	St		JBMB 0797	V. de L. Weiser 666
<i>Pavonia garckeana</i> Gürke	St		UNBA 5450	A.G. Faraco 58
<i>Pavonia hexaphylla</i> (S.Moore) Krapov.	St		JBMB 0038	V. de L. Weiser 86
<i>Pavonia malacophylla</i> (Link & Otto) Garcke	St	mssf	JBMB 0001	V. de L. Weiser 49
<i>Pseudobombax longiflorum</i> (Mart. & Zucc.) A.Robyns	St		JBMB 0188	V. de L. Weiser 256
MELASTOMATACEAE				
<i>Acisanthera alsinaefolia</i> (DC.) Triana	Herb		JBMB 0031	V. de L. Weiser 79
<i>Leandra lacunosa</i> Cogn.	St		UNBA 0261	M.H.O. Pinheiro 367
<i>Miconia albicans</i> (Sw.) Steud.	St	mssf	UNBA 1281	O. Cavassan 320
<i>Miconia chamissois</i> Naudin	St	mssf, pfrf	UNBA 0503	M.H.O. Pinheiro 268
<i>Miconia fallax</i> DC.	St		UNBA 4050	M.N. Rissi 77
<i>Miconia langsdorffii</i> Cogn.	St	mssf	UNBA 3911	M. Kubo 1
<i>Miconia ligustroides</i> (DC.) Naudin	St		UNBA 1279	O. Cavassan 324
<i>Miconia rubiginosa</i> (Bonpl.) DC.	St		UNBA 5045	M.N. Rissi 137
<i>Miconia stenostachya</i> DC.	St	mssf	UNBA 1280	O. Cavassan 331
<i>Rhynchanthera dichotoma</i> (Desr.) DC.	St	mssf	JBMB 0029	V. de L. Weiser 77
<i>Tibouchina cerastifolia</i> Cogn.	St		JBMB 0028	V. de L. Weiser 76
<i>Tibouchina stenocarpa</i> (DC.) Cogn.	St		JBMB 0486	V. de L. Weiser 385
MELIACEAE				
<i>Cedrela fissilis</i> Vell.	St	mssf	UNBA 5930	V. de L. Weiser 885
<i>Trichilia pallida</i> Sw.	St	mssf	JBMB 0626	V. de L. Weiser 515
MORACEAE				
<i>Brosimum gaudichaudii</i> Trécul	St	mssf	JBMB 0091	V. de L. Weiser 139
<i>Brosimum guianense</i> (Aubl.) Huber ex Ducke	St		UNBA 5919	V. de L. Weiser 874
<i>Ficus citrifolia</i> Mill.	St	mssf	JBMB 0650	V. de L. Weiser 539
[<i>Ficus guaranitica</i> Chodat]				
<i>Ficus obtusifolia</i> Kunth	St		UNBA 5424	A.G. Faraco 108
MYRTACEAE				
<i>Calyptanthes concinna</i> DC.	St	mssf	UNBA 5920	V. de L. Weiser 875
<i>Campomanesia adamantium</i> (Cambess.) O.Berg	St		UNBA 4025	L. Baggio 104
<i>Campomanesia pubescens</i> (Mart. ex DC.) O.Berg	St		UNBA 5215	J.A. Ribeiro 12
<i>Eugenia aurata</i> O.Berg	St	mssf	UNBA 1955	O. Cavassan 418

Table 1. Continued.

FAMILY / SPECIES/ [SYNONIMS]	HABIT	OTHER VEGETATION TYPE	VOUCHER NUMBER	COLLECTOR NUMBER
<i>Eugenia bimarginata</i> DC.	St		UNBA 5632	M.N. Rissi 209
<i>Eugenia florida</i> DC.	St	pfrf	UNBA 4053	M.N. Rissi 83
<i>Eugenia hiemalis</i> Cambess.	St		JBMB 0694	V. de L. Weiser 583
<i>Eugenia puniceifolia</i> (Kunth) DC.	St		UNBA 5921	V. de L. Weiser 876
<i>Eugenia uniflora</i> L.	St		UNBA 5477	A.G. Faraco 99
<i>Myrcia bella</i> Cambess.	St		UNBA 3912	O. Cavassan 518
<i>Myrcia guianensis</i> (Aubl.) DC.	St		UNBA 1294	O. Cavassan 384
[<i>Myrcia lingua</i> (O.Berg) Mattos]				
<i>Myrcia multiflora</i> (Lam.) DC.	St	mssf	UNBA 5922	V. de L. Weiser 877
<i>Myrcia tomentosa</i> (Aubl.) DC.	St	mssf	JBMB 0079	V. de L. Weiser 127
<i>Myrcia uberavensis</i> O.Berg	St		JBMB 0585	V. de L. Weiser 474
<i>Myrcia venulosa</i> DC.	St	mssf	UNBA 5950	A.L. Giles 77
<i>Psidium guajava</i> L. (*)	St	mssf	UNBA 5959	A.L. Giles 86
<i>Psidium guineense</i> Sw.	St		JBMB 0768	V. de L. Weiser 637
NYCTAGINACEAE				
<i>Guapira areolata</i> (Heimerl) Lundell	St		UNBA 5923	V. de L. Weiser 878
<i>Guapira graciliflora</i> (Mart. ex J.A.Schmidt) Lundell	St		JBMB 0773	V. de L. Weiser 642
<i>Guapira hirsuta</i> (Choisy) Lundell	St	mssf	UNBA 2241	M.H.O. Pinheiro 209
<i>Guapira noxia</i> (Netto) Lundell	St		UNBA 3620	A.G. Guimarães 3
<i>Guapira opposita</i> (Vell.) Reitz	St	mssf	UNBA 4051	M.N. Rissi 79
OCHNACEAE				
<i>Ouratea spectabilis</i> (Mart. ex Engl.) Engl.	St		UNBA 1468	O. Cavassan 334
ONAGRACEAE				
<i>Ludwigia elegans</i> (Cambess.) H.Hara	St	nfrf	JBMB 0030	V. de L. Weiser 78
OPILIACEAE				
<i>Agonandra excelsa</i> Griseb.	St		UNBA 5928	V. de L. Weiser 883
ORCHIDACEAE				
<i>Catasetum fimbriatum</i> (C.Morren) Lindl.	Epi.		UNBA 5584	S.A. Joanitti 69
<i>Epidendrum denticulatum</i> Barb.Rodr.	Epi.		UNBA 5586	S.A. Joanitti 71
<i>Oeceoclades maculata</i> (Lindl.) Lindl. (*)	Herb	mssf	UNBA 5429	A.G. Faraco 113
<i>Polystachya concreta</i> (Jacq.) Garay & H.R.Sweet	Epi.		UNBA 5583	S.A. Joanitti 68
<i>Prescottia stachyodes</i> (Sw.) Lindl.	Herb		UNBA 5491	A.G. Faraco 315
<i>Rodriguezia decora</i> (Lem.) Rchb.f.	Epi.		UNBA 5585	S.A. Joanitti 70
PASSIFLORACEAE				
<i>Passiflora alata</i> Curtis	Climber		UNBA 5908	V. de L. Weiser 863
<i>Passiflora cincinnata</i> Mast.	Climber		JBMB 0470	V. de L. Weiser 369
<i>Passiflora edulis</i> Sims	Climber		UNBA 5902	V. de L. Weiser 857
<i>Passiflora foetida</i> L.	Climber		UNBA 5513	M.N. Rissi 160
<i>Passiflora miersii</i> Mast.	Climber	mssf	JBMB 0227	V. de L. Weiser 312
<i>Passiflora pohlii</i> Mast.	Climber		JBMB 0086	V. de L. Weiser 134
<i>Passiflora suberosa</i> L.	Climber	mssf	UNBA 5909	V. de L. Weiser 864
PERACEAE				
<i>Pera glabrata</i> (Schott) Poepp. ex Baill.	St		UNBA 1286	O. Cavassan 314
[<i>Pera obovata</i> (Klotzsch) Baill.]				
PIPERACEAE				
<i>Piper cuyabanum</i> C.DC.	St	mssf	UNBA 2271	M.H.O. Pinheiro 640
POACEAE				
<i>Brachiaria decumbens</i> Stapf (*)	Herb		UNBA 5951	A.L. Giles 78
<i>Ichnanthus pallens</i> (Sw.) Munro ex Benth.	Herb		UNBA 5482	A.G. Faraco 213
<i>Imperata brasiliensis</i> Trin.	Herb		UNBA 5960	A.L. Giles 87
POLYGALACEAE				
<i>Bredemeyera floribunda</i> Willd.	St	mssf	UNBA 5924	V. de L. Weiser 879
<i>Securidaca divaricata</i> Nees & Mart.	Climber		JBMB 0638	V. de L. Weiser 527
[<i>Securidaca rivinifolia</i> A.St.-Hil.]				
POLYGONACEAE				
<i>Coccoloba mollis</i> Casar.	St	mssf	UNBA 4021	M.N. Rissi 61

Table 1. Continued.

FAMILY / SPECIES/ [SYNONYMS]	HABIT	OTHER VEGETATION TYPE	VOUCHER NUMBER	COLLECTOR NUMBER
POLYPODIACEAE				
<i>Microgramma lindbergii</i> (Mett. ex Kuhn) de la Sota [<i>Polypodium lindbergii</i> Mett. ex Kuhn]	Epi.		UNBA 5798	S.A. Joanitti 1
<i>Microgramma squamulosa</i> (Kaulf.) de la Sota [<i>Polypodium squamulosum</i> Kaulf.]	Epi.	mssf, pfrf	UNBA 5580	S.A. Joanitti 65
<i>Pleopeltis hirsutissima</i> (Raddi) de la Sota [<i>Polypodium hirsutissimum</i> Raddi]	Epi.		UNBA 5963	A.G. Faraco 189
<i>Pleopeltis pleopeltifolia</i> (Raddi) Alston [<i>Polypodium pleopeltifolium</i> Raddi]	Epi.	mssf, pfrf	UNBA 5363	S.A. Joanitti 9
<i>Pleopeltis polypodioides</i> (L.) E.G.Andrews & Windham	Epi.	pfrf	UNBA 5418	S.A. Joanitti 64
<i>Polypodium chnoophorum</i> Kunze	Epi.		UNBA 5582	S.A. Joanitti 67
<i>Serpocaulon catharinae</i> (Langsd. & Fisch.) A.R.Sm. [<i>Polypodium catharinae</i> Langsd. & Fisch.]	Epi.		UNBA 5581	S.A. Joanitti 66
<i>Serpocaulon latipes</i> (Langsd. & L.Fisch.) A.R.Sm. [<i>Polypodium latipes</i> Langsd. & L.Fisch.]	Epi.		UNBA 3490	G.A. Nóbrega 43
<i>Serpocaulon vacillans</i> (Link) A.R.Sm. [<i>Polypodium vacillans</i> Link]	Herb		UNBA 3392	G.A. Nóbrega 4
PRIMULACEAE				
<i>Ardisia ambigua</i> Mart.	St	mssf, pfrf	UNBA 3782	M. Carboni 233
<i>Myrsine guianensis</i> (Aubl.) Kuntze [<i>Rapanea guianensis</i> Aubl.]	St	pfrf	UNBA 5227	B.M. Palma 27
<i>Myrsine umbellata</i> Mart. [<i>Rapanea umbellata</i> (Mart.) Mez]	St	mssf	UNBA 1283	O. Cavassan 211
PROTEACEAE				
<i>Roupala montana</i> Aubl.	St	mssf	UNBA 2230	M.H.O. Pinheiro 487
<i>Roupala montana</i> var. <i>paraensis</i> (Huber) K.S.Edwards [<i>Roupala brasiliensis</i> Klotzsch]	St	mssf	JBMB 0123	V. de L. Weiser 191
PTERIDACEAE				
<i>Adiantum serratodentatum</i> Humb. & Bonpl. ex Willd.	Herb	mssf	UNBA 3484	G.A. Nóbrega 19
RHAMNACEAE				
<i>Gouania latifolia</i> Reissek	Climber	mssf	JBMB 0469	V. de L. Weiser 368
<i>Rhamnidium elaeocarpum</i> Reissek	St	mssf	UNBA 5952	A.L. Giles 79
ROSACEAE				
<i>Prunus sellowii</i> Koehne	St		UNBA 5047	J.C. Peres 4
RUBIACEAE				
<i>Anaioua intermedia</i> Mart. ex Schult. & Schult.f.	St	mssf	UNBA 1305	O. Cavassan 517
<i>Chiococca alba</i> (L.) Hitchc.	Climber	mssf	JBMB 0094	V. de L. Weiser 142
<i>Chomelia pohliana</i> Müll.Arg.	St	mssf	UNBA 5961	A.L. Giles 88
<i>Coccocypselum lanceolatum</i> (Ruiz & Pav.) Pers.	Herb	pfrf	UNBA 5435	A.G. Faraco 142
<i>Cordia sessilis</i> (Vell.) Kuntze [<i>Alibertia sessilis</i> (Vell.) K.Schum.]	St	mssf	UNBA 3918	O. Cavassan 330
<i>Coussarea hydrangeifolia</i> (Benth.) Benth. & Hook.f. ex Müll.Arg.	St	mssf	UNBA 1302	O. Cavassan 544
<i>Faramea montevidensis</i> (Cham. & Schltdl.) DC.	St	mssf	JBMB 0643	V. de L. Weiser 532
<i>Guettarda viburnoides</i> Cham. & Schltdl.	St	mssf	UNBA 0415	O. Cavassan 415
<i>Ixora gardneriana</i> Benth.	St	mssf	JBMB 0445	V. de L. Weiser 344
<i>Manettia cordifolia</i> Mart.	St	mssf	JBMB 0460	V. de L. Weiser 359
<i>Palicourea rigida</i> Kunth	St		UNBA 5425	A.G. Faraco 109
<i>Psychotria capitata</i> Ruiz & Pav.	St	mssf	UNBA 5163	S.R. Christianini 30
<i>Psychotria carthagenensis</i> Jacq.	St	mssf, pfrf	JBMB 0622	V. de L. Weiser 511
<i>Psychotria hoffmannseggiana</i> (Willd. & Schult.) Müll.Arg.	St	mssf	UNBA 5426	A.G. Faraco 111
<i>Rudgea jasminoides</i> (Cham.) Müll.Arg.	St	mssf	UNBA 5925	V. de L. Weiser 880
<i>Rudgea viburnoides</i> (Cham.) Benth.	St	mssf	JBMB 0207	V. de L. Weiser 288
<i>Tocoyena formosa</i> (Cham. & Schltdl.) K.Schum.	St	mssf	JBMB 0471	V. de L. Weiser 370

Table 1. Continued.

FAMILY / SPECIES/ [SYNONIMS]	HABIT	OTHER VEGETATION TYPE	VOUCHER NUMBER	COLLECTOR NUMBER
RUTACEAE				
<i>Zanthoxylum rhoifolium</i> Lam.	St	mssf	JBMB 0746	V. de L. Weiser 616
<i>Zanthoxylum riedelianum</i> Engl.	St	mssf	UNBA 5953	A.L. Giles 80
SALICACEAE				
<i>Casearia sylvestris</i> Sw.	St	mssf	UNBA 5871	A.L. Giles 35
SANTALACEAE				
<i>Phoradendron crassifolium</i> (Pohl ex DC.) Eichler	Vh		UNBA 5964	A.G. Faraco s/n
<i>Phoradendron piperoides</i> (Kunth) Trel.	Vh	pfrf	UNBA 3740	M. Carboni 221
SAPINDACEAE				
<i>Matayba elaeagnoides</i> Radlk.	St	mssf	UNBA 5538	M.N. Rissi 334
<i>Serjania caracasana</i> (Jacq.) Willd.	Climber		UNBA 5271	A.G. Faraco 331
<i>Serjania erecta</i> Radlk.	St		UNBA 5178	L. Baggio 96
<i>Serjania gracilis</i> Radlk.	Climber		UNBA 5910	V. de L. Weiser 865
<i>Serjania lethalis</i> A.St.-Hil.	Climber	mssf	JBMB 0053	V. de L. Weiser 101
<i>Serjania reticulata</i> Cambess.	Climber	mssf	JBMB 0479	V. de L. Weiser 378
SAPOTACEAE				
<i>Chrysophyllum marginatum</i> (Hook. & Arn.) Radlk.	St	mssf	UNBA 5926	V. de L. Weiser 881
<i>Pouteria ramiflora</i> (Mart.) Radlk.	St		UNBA 1301	O. Cavassan 313
SIPARUNACEAE				
<i>Siparuna guianensis</i> Aubl.	St	mssf, pfrf	UNBA 1282	O. Cavassan 535
SMILACACEAE				
<i>Smilax campestris</i> Griseb.	Climber	mssf	JBMB 0743	V. de L. Weiser 613
<i>Smilax fluminensis</i> Steud.	Climber	mssf	JBMB 0750	V. de L. Weiser 620
<i>Smilax polyantha</i> Griseb.	Climber	mssf	JBMB 0749	V. de L. Weiser 619
SOLANACEAE				
<i>Cestrum mariquitense</i> Kunth	St	mssf	UNBA 2252	M.H.O. Pinheiro 136
<i>Cestrum pedicellatum</i> Sendtn.	St		UNBA 5454	A.G. Faraco 66
<i>Solanum erianthum</i> D.Don	St		UNBA 5046	J.C. Peres 3
<i>Solanum hazenii</i> Britton	St	mssf	UNBA 3031	M.H.O. Pinheiro 229
<i>Solanum lycocarpum</i> A.St.-Hil.	St	mssf	UNBA 5956	A.L. Giles 83
<i>Solanum paniculatum</i> L.	St	mssf	UNBA 4045	M.N. Rissi 82
<i>Solanum variabile</i> Mart.	St		UNBA 5452	A.G. Faraco 60
STYRACACEAE				
<i>Styrax camporum</i> Pohl	St	mssf	UNBA 5877	A.L. Giles 41
<i>Styrax ferrugineus</i> Nees & Mart.	St		UNBA 1299	O. Cavassan 475
SYMPLOCACEAE				
<i>Symplocos nitens</i> (Pohl) Benth.var. <i>nitens</i>	St	pfrf	UNBA 0793	V. de L. Weiser 662
<i>Symplocos pubescens</i> Klotzsch ex Benth.	St	mssf	JBMB 0657	V. de L. Weiser 546
THELYPTERIDACEAE				
<i>Thelypteris hispidula</i> (Decne.) C.F.Reed	Herb	mssf, pfrf, nfrf	UNBA 3386	G.A. Nóbrega 60
<i>Thelypteris serrata</i> (Cav.) Alston	Climber	mssf, pfrf	UNBA 3389	G.A. Nóbrega 30
THYMELAEACEAE				
<i>Daphnopsis utilis</i> Warm.	St		UNBA 5444	A.G. Faraco 169
URTICACEAE				
<i>Cecropia pachystachya</i> Trécul	St	mssf, pfrf	UNBA 5479	A.G. Faraco 172
VERBENACEAE				
<i>Aloysia virgata</i> (Ruiz & Pav.) Juss.	St	mssf	UNBA 5954	A.L. Giles 81
<i>Lantana camara</i> L.	St	mssf	UNBA 5896	A.L. Giles 60
<i>Lantana fucata</i> Lindl.	Herb		UNBA 5894	A.L. Giles 58
<i>Lantana hypoleuca</i> Briq.	St	mssf	UNBA 2278	M.H.O. Pinheiro 119
<i>Lippia lasiocalycina</i> Cham.	St		UNBA 5813	A.L. Giles 21
<i>Lippia lupulina</i> Cham.	St		UNBA 5499	A.G. Faraco 356
<i>Lippia organoides</i> Kunth	Herb		UNBA 5895	A.L. Giles 59
<i>Stachytarpheta cayennensis</i> (Rich.) Vahl	Herb		UNBA 5427	A.G. Faraco 112
VIOLACEAE				
<i>Anchietea pyrifolia</i> (Mart.) G.Don var. <i>pyrifolia</i>	Climber	mssf	JBMB 0742	V. de L. Weiser 612

Table 1. Continued.

FAMILY / SPECIES/ [SYNONYMS]	HABIT	OTHER VEGETATION TYPE	VOUCHER NUMBER	COLLECTOR NUMBER
VITACEAE				
<i>Cissus erosa</i> Rich.	Climber	mssf	JBMB 0241	V. de L. Weiser 331
VOCHYSIACEAE				
<i>Qualea cordata</i> Spreng.	St	mssf	UNBA 1119	M.H.O. Pinheiro 186
<i>Qualea grandiflora</i> Mart.	St	mssf	JBMB 0100	V. de L. Weiser 148
<i>Qualea multiflora</i> Mart.	St	mssf	UNBA 1296	O. Cavassan 415
<i>Qualea parviflora</i> Mart.	St		JBMB 0084	V. de L. Weiser 132
<i>Vochysia cinnamomea</i> Pohl	St		UNBA 1295	O. Cavassan 449
<i>Vochysia tucanorum</i> Mart.	St	mssf	UNBA 1937	O. Cavassan 533

our table agrees with Brasil et al.'s research (2010) on the *cerrado* flora of São Paulo. Fabaceae and Asteraceae have also been recognized by Warming (1908) as the most species-rich in the *cerrado* in Lagoa Santa. Warming recorded the highest number of species in Asteraceae, taking into account that the formation studied was predominantly of grasslands, with forest formations located in valleys. Considering the Brazilian flora as a whole, Fabaceae is also the richest, represented by 3,200 species (Giulietti et al. 2005). Bromeliaceae, the ninth in the list, with 11 species (3.0%), is the only new item in our list when compared to other studies. Its inclusion is justified by the addition of epiphytes, rarely sampled in other floristic surveys.

Considering Bauru's geographic position, in the intermediate zone between tropical and southern temperate climates, the comparison carried out shows that, regarding species number per family, there are no differences between this vegetation and the *cerrado* of the core area.

Concerning their inclusion in the "Official list of plant species of the state of São Paulo threatened with extinction", published in Resolution 48 of the State Environment Department on September 21, 2004 (São Paulo 2004), two species (*Acrocomia hassleri* (Barb.Rodr.) W.J.Hahn and *Psychotria capitata* Ruiz & Pav.) are classified as "endangered", three (*Bowdichia virgilioides* Kunth, *Pavonia biflora* Fryxell, and *Pavonia hexaphylla* (S.Moore) Krapov.) as "vulnerable", and one (*Strychnos bicolor* Progel) as "critically endangered". According to the Red Book of the Brazilian Flora (Martinelli & Moraes 2013), one species (*Anemopaegma arvense* (Vell.) Stelfeld ex de Souza) is endangered and two species (*Zeyheria tuberculosa* (Vell.) Bureau ex Verl. and *Cedrela fissilis* Vell.) are vulnerable. In addition, four non-threatened species (*Caryocar brasiliense* Cambess., *Bowdichia virgilioides* Kunth, *Plathymenia reticulata* Benth. and *Voyria aphylla* (Jacq.) Pers.) were considered to be of concern to research and conservation for their economic value and for being in actual or expected decline (Martinelli & Moraes 2013).

Concerning habit, shrub or tree species were the most sampled (64.7%), followed by climbers (18.3%) and herbs (8.6%). This result demonstrates that, although shrub or tree species are better represented in number, plants with other habits investigated contribute significantly to determine diversity in that vegetation.

We can see that 363 species were considered as native and eight as naturalized (Table 1). These species occur naturally in *cerrado* environments and reproduce without human intervention.

However, their aggressiveness in the occupation of new areas was not assessed. Based on our fieldwork experience, we observed that *Brachiaria decumbens* Stapf has a high invasive potential, both vegetatively and by seeds, as long as the environment is sunny. In this case, we might as well consider it an invasive species that competes fiercely with native species in the sub-shrub herbaceous stratum (Pivello et al. 1999) and alters the dynamics of *cerrado* ecosystems.

On the other hand, the terrestrial orchid *Oeceoclades maculata* (Lindl.) Lindl. is frequent in the litter of *cerradões*, always in shaded environments. This species has also been observed in the same environment in montane semideciduous seasonal forests of Bauru and does not seem to show the same invasive signs as the species mentioned above.

We observed that 53.6% species were seen only in the *cerrado*, which suggests they are exclusive of this vegetation type in the Bauru region. Therefore, these species are good indicators of the typical *cerrado* vegetation described by Durigan et al. (2012), who considered their survival limited in shaded environments. The others were also observed in other vegetation formations of the municipality, of which 36.4% occurred in montane semideciduous seasonal forests as well. According to the authors, this vegetation type is formed predominantly by generalist species with high ecological plasticity, able to survive in both sunny and shaded environments. However, we should consider that other factors, such as water deficit (Durigan et al. 2003, Siqueira & Durigan 2007), soil characteristics (Coutinho 1978, Ruggiero et al. 2002, Durigan et al. 2003, Siqueira & Durigan 2007, Pinheiro & Durigan 2009), and seral stages (Pinheiro & Durigan 2009) can interfere in their occurrence.

Therefore, this is an unprecedented list of tracheophyte species recorded in *cerrado* fragments in the municipality of Bauru, which we believe can be used as a reference in every effort to protect, modify, suppress, or restore that vegetation type. We observed the *cerrado* fragments under study host species that are also part of other *cerrado* communities in Brazil and are home to at least six species threatened with extinction in the state of São Paulo and three in the country as a whole.

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