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Floristic studies of the Moconá Park, Misiones, Argentina

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ABSTRACT

DAVIÑA, J. R., M. E. RODRÍGUEZ, A. I. HONFI, G. J. SEIJO, I. INSAURRALDE & R. GUILLEN (1999). Floristic studies of the Moconá Park, Misiones, Argentina. *Candollea* 54: 231-249. In English, English and Spanish abstracts.

The Moconá Park is located in Misiones, Argentina, and it is a representative area of the Paranaense Forest. Its flora was poorly known, therefore, five recent expeditions were carried out, which resulted in the collection of 411 species that belong to 100 families and include new reports for the Argentine flora. The vegetation units of the Park are briefly described and a list of the collected species is provided.

RESUMEN

DAVIÑA, J. R., M. E. RODRÍGUEZ, A. I. HONFI, G. J. SEIJO, I. INSAURRALDE & R. GUILLEN (1999). Estudio florístico del Parque Moconá, Misiones, Argentina. *Candollea* 54: 231-249. En Inglés, resúmenes en Inglés y Español.

El Parque Moconá se encuentra en Misiones, Argentina y es un área representativa de la selva Paranaense. Su flora era poco conocida, por esa razón se realizaron 5 expediciones que resultaron en la colección de 411 especies pertenecientes a 100 familias botánicas incluyendo algunas nuevas citas para la flora argentina. Se describen brevemente las unidades vegetacionales del Parque y se adjunta una lista de las especies coleccionadas.

KEY-WOROS: Floristic inventory – Moconá Park – Misiones – Argentina – Paranaense Forest.

Introduction

The mixed forest of the Paranaense Biogeographic Province of South America is a system of high biodiversity and ecological complexity whose conservation concerns the whole world. For this reason, a surface of 253.773 ha, located in San Pedro and Guarani Departments of Misiones Province, Argentina, has been declared natural reserve. This area was called Yabotí Biosphere Reserve and was recognized by the UNESCO in 1995. This reserve includes the Moconá Park that has an extension of 1000 ha. The predominant vegetation is the subtropical forest composed by several strata that form a 20 to 30 m high dense and green compact mass (MARTÍNEZ-CROVETTO, 1963 y CABRERA, 1976). Within the Park, the Uruguay River has an spectacular 2 km long waterfalls, in a parallel direction to the river stream.

Few studies have been carried out on the Misiones flora and there is little information about the total number of species of the subtropical forest of the high Uruguay River basin

(KLEIN, 1967; RAMBO, 1980; BRACK & al., 1985; DIAS & al., 1992; LÓPEZ CRISTOBAL & al., 1996; TRESSENS & REVILLA, 1997). Most of the previous report, are focused on trees and shrub species, and there is no floristic inventory of the Park, thus, the floristic diversity existent in it is scarcely known.

Therefore, the present study was conducted aiming at making a botanical checklist and at proving a general description of the Moconá Park vegetation. The results presented here are the first contribution to study the floristic richness of the Park and to increase the knowledge of the Misiones flora.

Study area and methods

The Moconá Park is located in the southern extreme of San Pedro Department, Misiones, Argentina, and it is mostly surrounded by the Uruguay and Yabotí Rivers, situated at 53°55'W and 27°10'S and at 250 m above sea level (Fig. 1).

Five botanical expeditions were conducted to collect herbarium material along the four seasons between December 1992 and December 1993. Voucher specimens are deposited in the Universidad Nacional de Misiones Herbarium (MNES) and duplicates in the following herbaria: Botanischer Garten und Botanischer Museum Berlin-Dahlem, Germany (B), Instituto de Recursos Biológicos I.N.T.A. Castelar (BAB), Herbario de la Universidad Nacional de Córdoba (CORD), Instituto de Botánica del Nordeste (CTES), Conservatoire et Jardin botaniques de la Ville de Genève (G), Universidad Nacional de Jujuy (JUA), Herbario del Museo de la Plata (LP) and Instituto de Botánica Darwinion (SI).

Some species were only observed *in situ* and are cited as Obs. Values of specific representativity by family (Number of species by family/Total of species registered) were estimated.

Results and discussion

The botanical checklist of the Moconá Park is based on the collected and few observed species, and it is presented grouped by families in Table 1. It also includes information about herbarium vouchers of each one of them.

The most important families of the checklist are shown in Table 2, which also gives the number of species recorded for each family and the percentage which they represent in relation to the total number of species. The families which contributed more to the total number of species were *Poaceae* (9.73%), *Fabaceae* (6.56%), *Asteraceae* and *Rubiaceae* (4.37%), and the families with greater genus diversity were *Fabaceae* and *Poaceae* (19), *Asteraceae* (18) and *Euphorbiaceae* (16).

Three vegetation units could, at least, be distinguished in the Park. First, the subtropical mixed forest that covers most of the extension. Second, the riverine vegetation on the margin of the Uruguay River and the third unit includes areas with successional vegetation on the roadsides, smaller paths and grasslands around the guardpark house. A brief description of each unit mentioned above is detailed in the following paragraphs.

Subtropical mixed forest

It comprise several strata: arboreal, shrubby, herbaceous, epiphytes and lianas. In the arboreal stratum, the most representative tree species were: *Apuleia leiocarpa*, *Balfourodendron riedelianum*, *Cabralea canjerana* subsp. *canjerana*, *Syagrus romanzoffiana*, *Calyptrothamnus tricona*,

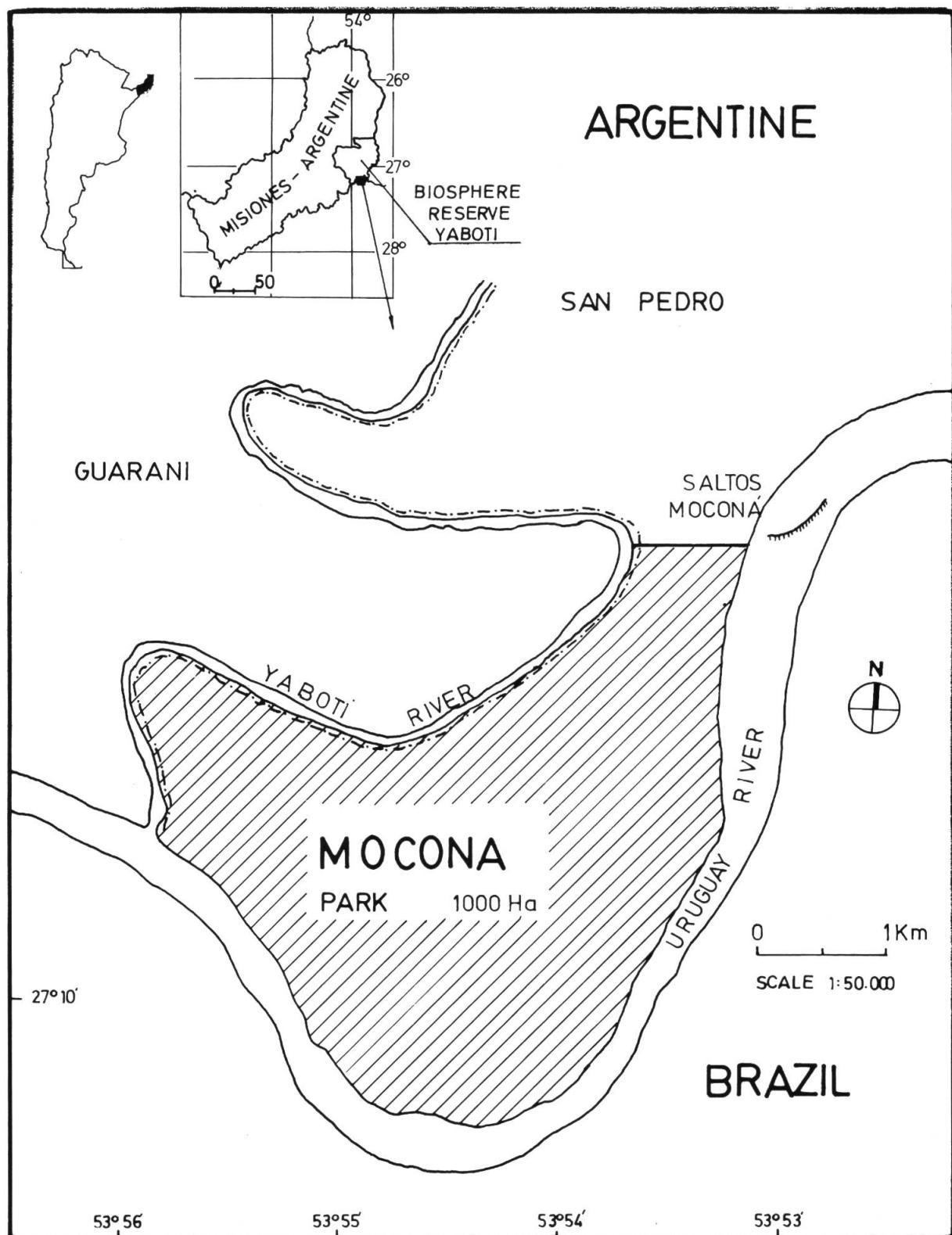


Fig. 1. – Geographic location of the Moconá Park.

Cedrela fissilis, *Diatenopteryx sorbifolia*, *Lonchocarpus muehlbergianus*, *Lonchocarpus leucanthus*, *Luehea divaricata*, *Machaerium stipitatum*, *Parapiptadenia rigida*, *Peltophorum dubium*, *Pilocarpus pennatifolius* and *Plinia trunciflora*. The shrubby stratum is composed mainly by species of the Rubiaceae family, like *Psychotria leiocarpa*, *P. myriantha*, *P. carthagrenensis* and *Schwenckia blumenavensis*. In the North sector of the park a population of arborescent ferns (*Alsophila setosa*) of nearly 4 m high was found. Among herbs, the most representative species were the Pteridophytes: *Dennstaedtia globulifera*, *Doryopteris nobilis*, *Didymochlaena truncatula*, *Diplazium cristatum*, *Pecluma venturii*, *Selaginella sulcata* and *Thelypteris* sp. and grasses of the genus *Pharus*, *Litachne* and *Olyra*.

Microgramma squamulosa, *Niphidium crassifolium*, *Asplenium auritum* and *Lycopodium* sp., *Maxillaria chrysantha*, *Sophronitis cernua*, *Isochilus linearis*, several species of *Rhipsalis*, *Aechmea calyculata*, *Sinningia verticillata* and some species of *Peperomia* were the epiphytes species most frequently collected. The climbers were very abundant specially several species belonging to the Bignoniaceae, Sapindaceae, Cucurbitaceae, Malpighiaceae and Asteraceae families.

This vegetation unit has all the different strata considered typical for the subtropical forest (MARTINEZ-CROVETTO, 1963 and CABRERA, 1976) in a good stage of conservation. For this reason it constitutes one of the few relicts of the pristine mixed forest of the Paranaense Province.

Riverine Vegetation

The right margin of the Uruguay River begins with a zone of basaltic outcroppings which has communities with few species like *Zephyranthes flavissima*, *Chomelia obtusa*, *Panicum spathellosum*, *Cyperus iria*, *Echinodorus grandiflorus* and *Justicia* sp. Subsequently, the soil turns from stony-rocky into rocky-sandy with a steep slope. The most conspicuous shrubby species here are *Cephaelanthus glabratus*, *Mimosa uragiensis*, *Calliandra selloi*, *Laffoensia nummularifolia*, *Phyllanthus sellowianus* and the herbaceous plants *Doryopteris triphylla*, *Panicum hirticaule* and *P. sabulorum* var. *polycladum*, were also found.

Closer to the mixed forest, the species diversity increased turning into gallery forest with the characteristic woody species like *Inga marginata*, *Nectandra lanceolata*, *N. megapotamica* and *Lonchocarpus leucanthus* among others.

In the whole extension of the riverine area the vegetation is disperse, open-covered and with scarce uniformity. This fact is perhaps related to the river dynamics, which create patchy arrangements of soil types which are subjected to varying hydrological conditions. Therefore, the characteristics of this vegetation unit may be conditioned by the naturally fluctuating levels of water.

Areas with disturbed vegetation

Some areas were subjected to antropogenic disturbances made by past human activities and as a result, the native forest is interspersed with successional patches of different stages and sizes.

Characteristic species of successional stages were *Solanum granulosoleprosum*, *Aloysia virgata* var. *virgata*, *Trema micranthum*, *Manihot grahamii*, *Casearia sylvestris*, *Cecropia pachystachya*, *Celtis triflora*, *Abutilon umbelliflorum*, *Pavonia sepium*, *Paspalum dilatatum*, *P. urvillei*, *Cardiospermum grandiflorum*, *Cissus verticillata* subsp. *verticillata*, *Pyrostegia venusta*, *Mikania micrantha*, *Rubus* cfr. *urticaefolius* and *Sicyos polyacanthus*. *Merostachys clausseni* forms an abundant mass of culms in most of the areas in which the native forest has

been modified. On the other hand, species like *Musa paradisiaca*, *Citrus reticulata*, *Ricinus communis* and *Sorghum technicum* also indicate human activities.

Other species found in these areas were *Hybanthus parviflorus*, *Diodia hispidula*, *Sonchus asper*, *Talinum paniculatum*, *Calceolaria tripartita*, *Mecardonia grandiflora*, *Canna* sp., *Serjania meridionalis*, *Arrabidaea mutabilis*, *Cissus sulcicaulis*, *Fevillea trilobata*, *Melothria fluminensis*, *Manettia luteo-rubra*, *Condilocarpus isthmicum*, *C. rauwolfiae*, *Mascagnia divaricata*, *Thinouia mucronata*, *T. ventricosa*, and the ferns as *Dennstaedtia globulifera* and *Macrothelypteris torresiana*.

In the rocky and humid zones grow *Anemia phyllitidis*, *A. tomentosa* var. *anthriscifolia*, *Begonia cucullata* var. *arenosicola*, *B. subvillosa* as well as several species of the Piperaceae, Pteridaceae, Aspleniaceae, Blechnaceae and Polypodiaceae families.

The present study constitutes the first floristic inventory of the Moconá Park with 411 species belonging to 284 genera and 100 botanical families. Families were classified into: Monocotyledoneae (16), Dicotyledoneae (62), Pteridophyta (12) and Lichenes (10).

Plant communities of different ages and seral stages occur side by side in the park within the pristine native forest. The results presented in this paper evidence the great floristic richness existent in the Park. The genera *Lafoensia* and *Dahlstedtia*; and the species, *Calyptranthes triccona* were reported for the first time for the Argentine flora (RODRÍGUEZ, 1995; VANNI & RODRÍGUEZ, 1998 and TRESSENS & RODRIGUEZ, 1996) and other species poorly represented in herbaria were also found.

The collected specimens which conform a documented data base of the species that compose the subtropical mixed forest, are a contribution to the knowledge of the Flora of Misiones, and may be used to design rational strategies of management and to asses conservation priorities.

Table 1. – Checklist of the Plants collected in the Moconá Park.

Taxa	Leg.	Herbaria
MONOCOTYLEDONEAE		
ALISMATACEAE		
<i>Echinodorus grandiflorus</i> (Cham. et Schlecht.) Micheli	G. 182	MNES, CTES
AMARYLLIDACEAE		
<i>Hippeastrum iguazunum</i> (Ravenna) T.H. Dudley & M. William	D. 314	MNES, B, CORD
<i>Zephyranthes flavissima</i> Ravenna	D. 279	MNES, B, CTES, G
ARACEAE		
<i>Philodendron bipinnatifidum</i> Schott	Obs.	
ARECACEAE		
<i>Syagrus romanzoffiana</i> (Cham.) Glassman	Obs.	
BROMELIACEAE		
<i>Aechmea calyculata</i> (E. Morren) Bak.	R. 709	MNES, BAB, CTES, G
<i>Billbergia nutans</i> H. Wendl. ex Regel	P. 36	MNES, G
<i>Tillandsia stricta</i> Sol.	R. 408	MNES, CTES
<i>Tillandsia</i> sp.	H. 535	MNES, CTES, G
CANNACEAE		
<i>Canna</i> sp.	De. 90	MNES, CTES
<i>Canna</i> sp.	R. 673	MNES, CTES, G

<i>Taxa</i>	<i>Leg.</i>	<i>Herbaria</i>
COMMELINACEAE		
<i>Commelina diffusa</i> Burm.	G. 184	MNES, G
<i>Tripogandra elongata</i> (G.F.W. Meyer) Woodson	G. 183	MNES, CTES
CYPERACEAE		
<i>Carex sellowiana</i> Schlecht.	D. 124	MNES, G
<i>Cyperus andreae</i> Maury	R. 665	MNES, CTES, G
<i>Cyperus iria</i> L.	S. 835	MNES, SI
<i>Cyperus prolixus</i> H.B.K.	S. 220	MNES, CTES
<i>Cyperus rotundus</i> L.	R. 428	MNES, G
<i>Cyperus</i> sp.	R. 525	MNES, G
<i>Eleocharis montana</i> (H.B.K.) Roem. et Schult.	S. 806	MNES, CTES
<i>Fimbristylis</i> sp.	R. 526	MNES, G
<i>Rhynchospora corymbosa</i> (L.) Britton	S. 203	MNES, CTES, G
<i>Scleria panicoides</i> Kunth	R. 566	MNES, SI,JUA, G
HYPONIDACEAE		
<i>Hypoxis decumbens</i> L.	G. 185	MNES, CTES, G
IRIDACEAE		
<i>Sisyrinchium megapotamicum</i> Malme	D. 260	MNES, CTES
LILIACEAE		
<i>Herreria montevidensis</i> Klotz.	R. 572	MNES, CTES
MARANTHACEAE		
<i>Calathea</i> sp.	R. 669	MNES, CTES, G
<i>Marantha sobolifera</i> L. Andersson	S. 204	MNES, CTES
MUSACEAE		
<i>Heliconia</i> sp.	Obs.	
<i>Musa paradisiaca</i> L.	Obs.	
ORCHIDIACEAE		
<i>Brassavola tuberculata</i> Hook.	Obs.	
<i>Corymborkis flava</i> (Sw.) O. Kuntze	D. 208	MNES
<i>Isochilus linearis</i> (Jacq.) R. Br.	S. 206	MNES, CTES, G
<i>Leptotes unicolor</i> Barb. Rodr.	H. 536	MNES
<i>Maxillaria chrysanthia</i> Barb. Rodr.	P. 45	MNES, CTES, G
<i>Maxillaria picta</i> Hook.	P. 44	MNES, G
<i>Miltonia flavescens</i> Lindl.	Obs.	
<i>Oncidium longicornu</i> Mutel	S. 181	MNES, CTES, BAB, G
<i>Pleurothallis grobyi</i> Lindl.	Obs.	
<i>Pleurothallis</i> sp.	Obs.	
<i>Sophronitis cernua</i> Lindl.	S. 205	MNES, G
POACEAE		
<i>Axonopus compressus</i> (Sw.) P. Beauv.	H. 522	MNES, CTES, G
<i>Axonopus compressus</i> (Sw.) P. Beauv. var. <i>jesuiticus</i> Araujo	S. 782	MNES, CTES
<i>Chaetotropis elongata</i> (H.B.K.) Björkman	S. 842	MNES, CTES, G

<i>Taxa</i>	<i>Leg.</i>	<i>Herbaria</i>
<i>Chloris pycnothrix</i> Trin.	S. 847	MNES, CTES
<i>Chusquea ramossissima</i> Lindm.	Obs.	
<i>Cynodon dactylon</i> (L.) Pers. var. <i>dactylon</i>	S. 794	MNES, G
<i>Deyeuxia viridiflavescens</i> (Poir.) Kunth	D. 111	MNES, G
<i>Digitaria ciliaris</i> (Retz.) Koeler	H. 486	MNES, CTES, G
<i>Eleusine tristachya</i> (Lam.) Lam.	H. 474	MNES, CTES
<i>Eragrostis airoides</i> Nees	S. 815	MNES, CTES, G
<i>Eragrostis pilosa</i> (L.) Pal. Beauv.	H. 558	MNES
<i>Ichnanthus pallens</i> (Sw.) Munro ex Benth.	D. 131	MNES, CTES
<i>Ichnanthus tenuis</i> (J. Presl) Hitchc. & Chase	G. 139	MNES, CTES, SI, G
<i>Litachne pauciflora</i> (Sw.) P. Beauv.	H. 541	MNES
<i>Merostachys clausseni</i> Munro	Obs.	
<i>Olyra humilis</i> Nees Von Esenbeck.	H. 500	MNES, CTES, G
<i>Olyra latifolia</i> L.	S. 863	MNES, CTES, G
<i>Panicum decipiens</i> Nees ex Trin.	S. 796	MNES, CTES
<i>Panicum dichotomiflorum</i> Michx.	S. 795	MNES, CTES
<i>Panicum hians</i> Elliott	S. 789	MNES, CTES
<i>Panicum hirticaule</i> Presl.	D. 275	MNES, G
<i>Panicum maximum</i> Jacq.	G. 195	MNES, G
<i>Panicum trichanthum</i> Nees	G. 165	MNES, SI, G
<i>Panicum pilosum</i> Sw.	D. 134	MNES, CTES, G
<i>Panicum spathellosum</i> Döll.	S. 836	MNES, CTES, G
<i>Panicum sabulorum</i> Lam. var. <i>polycladum</i> (Ekman) Palacios	D. 281	MNES, CTES, G
<i>Paspalum dilatatum</i> Poir.	H. 466	MNES, CTES, G
<i>Paspalum conjugatum</i> Berg.	S. 817	MNES, G
<i>Paspalum inaequivalve</i> Raddi	S. 833	MNES
<i>Paspalum mandiocanum</i> Trin. var. <i>subaequiglume</i> Barreto	D. 258	MNES
<i>Paspalum notatum</i> Flügge	S. 816	MNES, G
<i>Paspalum paniculatum</i> L.	H. 563	MNES
<i>Paspalum pauciciliatum</i> (Parodi) Herter	Obs.	
<i>Paspalum urvillei</i> Steud.	H. 520	MNES, CTES, G
<i>Pennisetum nervosum</i> (Nees) Trin.	De. 111	MNES, G
<i>Pharus lappulaceus</i> Aubl.	D. 129	MNES, CTES, G
<i>Pseudochinolaena polystachya</i> (H.B.K.) Stapf	S. 868	MNES, G
<i>Setaria parviflora</i> (Poir.) Kerg. var. <i>parviflora</i>	R. 531	MNES, CTES, SI, G
<i>Sorghum halepense</i> (L.) Persoon	R. 578	MNES, SI, G
<i>Sorghum</i> cfr. <i>almum</i> Parodi	H. 476	MNES, CTES, G
<i>Sorghum technicum</i> (Koern.) Battandier et Trabut	S. 843	MNES, CTES, G
SMILACACEAE		
<i>Smilax cognata</i> Kunth	R. 924	MNES

<i>Taxa</i>	<i>Leg.</i>	<i>Herbaria</i>
DICOTYLEDONEAE		
ACANTHACEAE		
<i>Justicia brasiliiana</i> Roth.	D. 116	MNES, CTES, G
<i>Justicia laevilinguis</i> (Nees) Lindau	S. 822	MNES, CTES, G
<i>Justicia cfr. squarrosa</i> Griseb.	H. 553	MNES
<i>Justicia</i> sp.	D. 127	MNES
<i>Ruellia sanguinea</i> Griseb.	R. 532	MNES, CTES, G
AMARANTHACEAE		
<i>Alternanthera micrantha</i> R.E. Fries	R. 558	MNES, CTES, G
<i>Amaranthus quitensis</i> H.B.K.	G. 155	MNES, CTES, G
<i>Amaranthus spinosus</i> L.	De. 94	MNES, CTES, G
<i>Chamissoa altissima</i> (Jacq.) H.B.K.	R. 524	MNES, G
<i>Gomphrena elegans</i> Mart. var. <i>elegans</i>	R. 577	MNES, CTES, G
<i>Hebanthe paniculata</i> Mast.	R. 678	MNES, BAB, CTES, G
<i>Iresine diffusa</i> Humb. et Bonpl.	G. 167	MNES, CTES, G
APIACEAE		
<i>Apium leptophyllum</i> (Pers.) F. Muell.	S. 820	MNES, CTES
<i>Eryngium Ekmanii</i> Wolff	H. 490	MNES, CTES, G
<i>Hydrocotyle callicephala</i> Cham. et Schlecht.	R. 559	MNES, CTES
APOCYNACEAE		
<i>Condilocarpus isthmicum</i> (Vell. Conc.) A. DC.	G. 192	MNES, CTES, G
<i>Condilocarpus rauwolfiae</i> (A. DC.) Mull. Arg.	S. 209	MNES, CTES, SI
<i>Peltastes peltatus</i> (Vell.) Woodson	D. 289	MNES, CTES, G
<i>Tabernaemontana catharinensis</i> A. DC.	De. 86	MNES, G
ARALIACEAE		
<i>Dendropanax affinis</i> (Marchal) Gamarro & Zuloaga	G. 169	MNES, CTES, G
<i>Schefflera morototoni</i> (Aubl.) Maguire	Obs.	
ASCLEPIADACEAE		
<i>Asclepias curassavica</i> L.	D. 182	MNES, CTES, G
<i>Tassadia subulata</i> (Vell.) Font. & Schw.	R. 784	MNES, CTES, G
<i>Tassadia subulata</i> (Vell.) Font. & Schw. var. <i>subulata</i>	De. 98	MNES, CTES
<i>Tassadia subulata</i> (Vell.) Font. & Schw. var. <i>florida</i> (Vell.) et Schw.	De. 96	MNES, CTES, G
ASTERACEAE		
<i>Ageratum conyzoides</i> L.	D. 188	MNES, CTES
<i>Bidens pilosa</i> L.	H. 491	MNES, CTES
<i>Coreopsis tinctoria</i> Nutt	R. 425	MNES
<i>Elephantopus mollis</i> H.B.K.	R. 562	MNES, G
<i>Melanthera latifolia</i> (Gardn.) Cabrera	R. 554	MNES, CTES, G
<i>Mikania cfr. involucrata</i> H. et A.	R. 668	MNES, CTES, G
<i>Mikania micrantha</i> Kunth	S. 216	MNES, CTES, G
<i>Mutisia speciosa</i> Hook	S. 218	MNES, SI, BAB, CTES, G
<i>Pluchea sagittalis</i> (Lam.) Cabrera	R. 419	MNES, CTES, G

<i>Taxa</i>	<i>Leg.</i>	<i>Herbaria</i>
<i>Polymnia connata</i> (Spreng.) Blake	S. 223	MNES, CTES, G
<i>Pteroaulon</i> sp.	R. 421	MNES
<i>Solidago chilensis</i> Mayon var. <i>megapotamica</i> (DC.) Cabrera	R. 534	MNES, CTES, G
<i>Sonchus asper</i> (L.) Hill.	G. 166	MNES
<i>Spilanthes</i> sp.	S. 791	MNES, G
<i>Tagetes minuta</i> L.	D. 183	MNES, CTES, G
<i>Vernonia cataractarum</i> Hieron.	R. 1005	MNES, G
<i>Vernonia scorpioides</i> (Lam.) Pers. var. <i>sororia</i> (DC.) Bak.	R. 420	MNES, CTES, G
<i>Xanthium cavanillesii</i> Schouw.	R. 427	MNES, CTES, G
BEGONIACEAE		
<i>Begonia cucullata</i> Willd. var. <i>arenosicola</i> (C. DC.) Smith. & Schubert	G. 140	MNES, CTES, G
<i>Begonia subvillosa</i> Klotsch.	R. 671	MNES, CTES, G
<i>Begonia</i> sp.	H. 514	MNES
BIGNONIACEAE		
<i>Adenocalymma marginatum</i> (Cham.) DC.	D. 194	MNES, CTES
<i>Arrabidaea caudigera</i> (S. Moore) Gentry	S. 214	MNES, CTES, G
<i>Arrabidaea mutabilis</i> Bureau & K. Schum.	G. 196	MNES, CTES, BAB
<i>Arrabidaea</i> sp.	P. 49	MNES
<i>Jacaranda micrantha</i> Cham.	Obs.	
<i>Pyrostegia venusta</i> (Ker-Sawl) Miers	P. 50	MNES
<i>Pithecoctenium crucigerum</i> (L.) Gentry	D. 113	MNES, CTES, G
<i>Tabebuia heptaphylla</i> (Vell.) Toledo	Obs.	
BOMBACACEAE		
<i>Chorisia speciosa</i> St. Hil.	Obs.	
BORAGINACEAE		
<i>Cordia trichotoma</i> (Vell.) Johnst.	Obs.	
<i>Heliotropium transalpinum</i> Vell.	P. 42	MNES, G
<i>Patagonula americana</i> L.	Obs.	
CACTACEAE		
<i>Peireskia aculeata</i> (Plum.) Mill.	G. 144	MNES, CTES
<i>Rhipsalis cruciformis</i> (Vell.) Castell.	H. 534	MNES, G
<i>Rhipsalis</i> cf. <i>pentaptera</i> Pfeiff. et Otto	S. 183	MNES, CTES, SI, G
<i>Rhipsalis Houlletiana</i> Lem.	Obs.	
<i>Rhipsalis</i> sp.	S. 182	MNES, CTES, G
CAMPANULACEAE		
<i>Triodanis biflora</i> (R. et P.) Greene	S. 825	MNES
<i>Wahlenbergia linarioides</i> (Lam.) A.DC.	H. 478	MNES, CTES, G
CAPPARACEAE		
<i>Cleome parviflora</i> H.B.K. subsp. <i>brasiliensis</i> (Weism.) Iltis	G. 159	MNES, CTES, G
<i>Cleome viridiflora</i> Schred.	G. 161	MNES, CTES

<i>Taxa</i>	<i>Leg.</i>	<i>Herbaria</i>
CARICACEAE		
<i>Carica quercifolia</i> (St. Hil.) Solms. Lamb.	Obs.	
<i>Jacaratia spinosa</i> (Aubl.) A. DC.	Obs.	
CARYOPHYLLACEAE		
<i>Paronychia</i> sp.	H. 523	MNES, CTES, G
CELTIDACEAE		
<i>Celtis iguanaea</i> (Jacquin) Sargent	R. 523	MNES, G
<i>Celtis triflora</i> R. et P.	R. 663	MNES, G
<i>Celtis</i> sp.	S. 208	MNES, CTES, G
<i>Trema micranthum</i> (L.) Blume	D. 102	MNES, CTES, G
COMBRETACEAE		
<i>Combretum fruticosum</i> (Loefl.) Stuntz.	R. 567	MNES, CTES, G
<i>Terminalia australis</i> Camb.	S. 848	MNES, CTES, G
CONVOLVULACEAE		
<i>Ipomoea acuminata</i> (Vahl) Roem et Schult.	H. 510	MNES, CTES, G
<i>Ipomoea grandifolia</i> (Dam.) O'Donell	H. 481	MNES, CTES, G
<i>Ipomoea</i> sp.	G. 176	MNES
<i>Merremia dissecta</i> (Jacq.) Hall. f. var. <i>edentata</i> (Meissn.) O'Donell	R. 429	MNES, CTES
<i>Merremia</i> sp.	D. 201	MNES
CUCURBITACEAE		
<i>Cayaponia martiniana</i> (Cogn.) Cogn.	D. 178	MNES, CTES, G
<i>Fevillea trilobata</i> L.	D. 196	MNES, CTES, SI, G
<i>Melothria fluminensis</i> Gardn.	D. 191	MNES, CTES, G
<i>Sicyos polyacanthus</i> Cogn.	De. 113	MNES, BAB, G
EUPHORBIACEAE		
<i>Acalypha communis</i> Muell. Arg.	D. 118	MNES, CTES, G
<i>Acalypha multicaulis</i> Muell. Arg.	D. 137	MNES, CTES, G
<i>Actinostemon concolor</i> (Spreng.) Müll. Arg.	S. 867	MNES, CTES
<i>Alchornea iricurana</i> Cassaretto	S. 221	MNES, CTES, G
<i>Bernardia pulchella</i> (Baill.) Müell. Arg.	S. 865	MNES, CTES, G
<i>Croton</i> sp.	R. 418	MNES, CTES, G
<i>Dalechampia stipulacea</i> Muell. Arg.	S. 210	MNES, BAB
<i>Euphorbia sciadophila</i> Boiss.	D. 261	MNES, CTES
<i>Manihot grahamii</i> Hook.	D. 106	MNES, CTES, G
<i>Phyllanthus caroliniensis</i> Walt.	G. 141	MNES, CTES, G
<i>Phyllanthus sellowianus</i> Muell.Arg.	D. 278	MNES, CTES, G
<i>Phyllanthus niruri</i> L.	R. 925	MNES
<i>Phyllanthus</i> sp.	D. 202	MNES
<i>Ricinus communis</i> L.	Obs.	
<i>Sebastiania brasiliensis</i> Spreng.	S. 801	MNES, CTES, G

<i>Taxa</i>	<i>Leg.</i>	<i>Herbaria</i>
FABACEAE		
<i>Acacia nitidifolia</i> Speg.	H. 509	MNES, G
<i>Apuleia leiocarpa</i> (Vog.) J. F. Macbr.	Obs.	
<i>Bauhinia forficata</i> Link. subsp. <i>pruinosa</i> (Vog.) Fortunato et Wundelin	Obs.	
<i>Bauhinia microstachya</i> (Raddi) J. F. Macbr.	G. 149	MNES, CTES, G
<i>Calliandra selloi</i> (Spreng.) J. F. Macbr.	D. 271	MNES, G
<i>Dahlstedtia pentaphylla</i> (Taub.) Burk.	R. 1004	MNES
<i>Dalbergia variabilis</i> Vog.	H. 525	MNES, G
<i>Desmodium affine</i> Schlecht.	D. 277	MNES
<i>Desmodium incianum</i> DC.	H. 468	MNES, CTES, G
<i>Desmodium uncinatum</i> (Jacq.) DC.	H. 472	MNES, CTES, G
<i>Erythrina falcata</i> Benth.	Obs.	
<i>Holocalyx balansae</i> Mich.	Obs.	
<i>Inga marginata</i> Willd.	D. 285	MNES, CTES, G
<i>Lonchocarpus leucanthus</i> Burk.	Obs.	
<i>Lonchocarpus muehbergianus</i> Hassl.	Obs.	
<i>Machaerium aculeatum</i> Raddi	Obs.	
<i>Machaerium paraguariense</i> Hassl.	Obs.	
<i>Machaerium stipitatum</i> (DC.) Vog.	Obs.	
<i>Medicago lupulina</i> L.	S. 823	MNES, CTES, G
<i>Mimosa bimucronata</i> (DC.) O.K.	G. 178	MNES, CTES, G
<i>Mimosa uragüensis</i> Hook. et Arn.	D. 112	MNES, CTES, G
<i>Mimosa</i> sp.	R. 423	MNES, CTES
<i>Myrocarpus frondosus</i> Allemao	Obs.	
<i>Parapiptadenia rigida</i> (Benth.) Brenam	S. 185	MNES, CTES, G
<i>Peltophorum dubium</i> (Spreng.) Taub.	S. 186	MNES, CTES, G
<i>Sesbania virgata</i> (Cav.) Pers.	G. 202	MNES, CTES, G
<i>Vigna caracalla</i> (L.) Verdcourt	G. 197	MNES, CTES, G
FLACOURTIACEAE		
<i>Casearia sylvestris</i> Sw.	D. 109	MNES, CTES, G
GESNERIACEAE		
<i>Sinningia verticillata</i> (Vell.) Moore	S. 202	MNES
HYPERICACEAE		
<i>Hypericum brasiliense</i> Choisy	H. 527	MNES, CTES, SI, G
<i>Hypericum connatum</i> Lamarck	R. 528	MNES, CTES, G
LAMIACEAE		
<i>Hyptis fasciculata</i> Benth.	H. 493	MNES, CTES, G
<i>Hyptis mutabilis</i> (Rich.) Briq.	R. 422	MNES, CTES, G
<i>Hyptis</i> sp.	G. 160	MNES, G
<i>Leonurus sibiricus</i> L.	G. 163	MNES, CTES, G
<i>Hoehnea</i> sp.	D. 205	MNES, CTES, G
<i>Scutellaria uliginosa</i> St.Hil.	R. 560	MNES, CTES, G

<i>Taxa</i>	<i>Leg.</i>	<i>Herbaria</i>
LAURACEAE		
<i>Nectandra lanceolata</i> Nees et Mart. ex Nees	D. 290.	MNES, CTES, G
<i>Nectandra megapotamica</i> (Spreng.) Mez	S. 213	MNES, CTES, G
<i>Ocotea diospyrifolia</i> (Meiss.) Mez	R. 540	MNES, CTES, G
LOASACEAE		
<i>Blumenbachia urens</i> (Vell.) Urban	De. 122	MNES, G
LOGANIACEAE		
<i>Spigelia humboldtiana</i> Cham. et Schlecht.	D. 274	MNES, CTES
<i>Strychnos brasiliensis</i> (Spreng.) Mart.	R. 943	MNES, G
LYTHRACEAE		
<i>Cuphea carthaginensis</i> (Jacq.) Macbride	G. 154	MNES, CTES, G
<i>Lafoensia nummularifolia</i> St. Hil.	R. 1003	MNES, CTES, SI, G
MALPIGHIACEAE		
<i>Banisteriopsis metallicolor</i> (Juss.) O'Don. et Lourt. var. <i>sericea</i> (Nied.) O'Don. et Lourt.	D. 267	MNES
<i>Heteropteris argyrophaea</i> Juss.	H. 528	MNES, G
<i>Heteropteris argyrophaea</i> Juss. f. <i>ovata</i> A. Niedenzu	H. 559	MNES, G
<i>Heteropteris</i> sp.	De. 106	MNES, G
<i>Mascagnia divaricata</i> (H.B.K.) Nied.	R. 533	MNES, CTES, G
MALVACEAE		
<i>Abutilon pictum</i> (Gill.) Walp.	D. 204	MNES, CTES, G
<i>Abutilon umbelliflorum</i> St. Hil.	D. 203	MNES, CTES, G
<i>Bastardia</i> <i>densiflora</i> (Hook. et Arn.) Hassl.	Obs.	
<i>Pavonia sepium</i> St. Hil.	D. 207	MNES, CTES, G
MELASTOMATACEAE		
<i>Leandra regnelli</i> (Triana) Cogn.	R. 664	MNES, BAB, CTES, G
<i>Miconia</i> sp.	R. 530	MNES, CTES, G
<i>Ossaea</i> sp.	D. 105	MNES, CTES, G
MELIACEAE		
<i>Cabralea canjerana</i> (Vellozo) Martius subsp. <i>canjerana</i>	P. 55	MNES
<i>Cedrela fissilis</i> Vellozo	D. 291	MNES, CTES, G
<i>Guarea macrophylla</i> Vahl var. <i>spicaeflora</i> (A. Juss.) Pennington	H. 550	MNES, CTES
<i>Trichilia catigua</i> A. Juss.	De. 119	MNES, G
<i>Trichilia elegans</i> A. Juss.	S. 855	MNES, CTES, G
MORACEAE		
<i>Cecropia pachystachya</i> Trecul.	Obs.	
<i>Ficus luschnathiana</i> (Miq.) Miq.	H. 549	MNES, G
<i>Sorocea bonplandii</i> (Baillon) Burger	S. 866	MNES, G
MYRSINACEAE		
<i>Rapanea lorentziana</i> Mez.	De. 91	MNES, CTES, G
MYRTACEAE		
<i>Calycorectes riedelianus</i> O. Berg.	G. 175	MNES, CTES, G
<i>Calypranthes conccina</i> DC.	R. 575	MNES, CTES, G

<i>Taxa</i>	<i>Leg.</i>	<i>Herbaria</i>
<i>Calyptanthes tricona</i> Legr.	H. 539	MNES, CTES, SI
<i>Calyptanthes</i> sp.	D. 101	MNES, CTES, G
<i>Campomanesia xanthocarpa</i> (Vell.) Johnst.	Obs.	
<i>Eugenia burkartiana</i> (Legr.) Legr.	R. 565	MNES, CTES, BAB, G
<i>Eugenia hyemalis</i> Camb.	D. 185	MNES, CTES, G
<i>Eugenia uruguayensis</i> Camb.	D. 186	MNES, CTES, G
<i>Plinia trunciflora</i> (Berg.) Kauzal	Obs.	
NYCTAGINACEAE		
<i>Pisonia aculeata</i> L.	De. 112	MNES, G
ONAGRACEAE		
<i>Ludwigia</i> cfr. <i>peruviana</i> (L.) Hara	R. 417	MNES, CTES, G
<i>Ludwigia decurrens</i> Walt.	R. 549	MNES, CTES, G
<i>Ludwigia octovalvis</i> L.	R. 415	MNES, CTES, G
<i>Ludwigia</i> sp.	H. 489	MNES
OXALIDACEAE		
<i>Oxalis cytisioides</i> Mart. ex Zucc.	S. 808	MNES, CTES, G
<i>Oxalis glaucifolia</i> Knuth	G. 174	MNES, SI, G
<i>Oxalis Niederleinii</i> Knuth	R. 570	MNES, CTES, G
<i>Oxalis refracta</i> St. Hil.	De. 116	MNES, CTES
PASSIFLORACEAE		
<i>Passiflora capsularis</i> L.	D. 206	MNES, CTES, G
PHYTOLACACEAE		
<i>Petiveria alliacea</i> L.	S. 198	MNES
<i>Phytolacca dioica</i> L.	Obs.	
PIPERACEAE		
<i>Peperomia aceroana</i> C.DC.	R. 938	MNES, CTES, G
<i>Peperomia arifolia</i> Miq.	S. 812	MNES, CTES, G
<i>Peperomia Balansana</i> C.DC.	H. 544	MNES, CTES
<i>Peperomia</i> aff. <i>rotundifolia</i> (L.) Kunth	D. 133	MNES, CTES
<i>Peperomia urocarpa</i> Fisch. & Mey.	R. 933	MNES, CTES, G
<i>Peperomia</i> sp.	D. 93	MNES, CTES
<i>Piper Gaudichaudianum</i> Kunth	S. 840	MNES, CTES, G
<i>Piper</i> sp.	D. 108	MNES, CTES, G
POLYGONACEAE		
<i>Polygonum acuminatum</i> Kunth	S. 837	MNES, CTES
<i>Polygonum hydropiperoides</i> Michx.	G. 157	MNES, CTES, G
<i>Polygonum punctatum</i> Elliott	G. 156	MNES, CTES, G
<i>Rumex crispus</i> L.	S. 830	MNES
PORTULACACEAE		
<i>Talinum paniculatum</i> (Jacq.) Gaertn.	G. 164	MNES, CTES, G
PRIMULACEAE		
<i>Anagallis arvensis</i> L.	D. 270	MNES

<i>Taxa</i>	<i>Leg.</i>	<i>Herbaria</i>
RANUNCULACEAE		
<i>Clematis bonariensis</i> Juss.	R. 568	MNES, CTES, G
RHAMNACEAE		
<i>Gouania ulmifolia</i> Hook. et Arn.	D. 190	MNES, CTES, G
ROSACEAE		
<i>Rubus</i> cfr. <i>urticaefolius</i> Poir.	D. 104	MNES, CTES, G
RUBIACEAE		
<i>Cephalanthus glabratus</i> (Spreng.) K. Schuman	S. 849	MNES, CTES, G
<i>Chomelia obtusa</i> Cham. et Schlecht.	D. 187	MNES, CTES, G
<i>Diodia brasiliensis</i> Spreng.	S. 828	MNES, CTES
<i>Diodia hispidula</i> DC.	R. 557	MNES, CTES, SI, G
<i>Diodia saponariaefolia</i> (Cham. et Schlecht.) Schum.	S. 829	MNES, CTES
<i>Galianthe laxa</i> (Cham. et Schlecht.) Cabral	R. 573	MNES, CTES, G
<i>Galianthe</i> sp.	D. 184	MNES, G
<i>Geophila repens</i> (L.) Johnston	H. 501	MNES, CTES
<i>Guettarda uruguensis</i> Cham. et Schlecht.	S. 805	MNES
<i>Manettia cordifolia</i> Mart. var. <i>glabra</i> (Cham. et Schlecht.) Wernham	R. 432	MNES, CTES, G
<i>Manettia luteo-rubra</i> (Vell.) Benth.	D. 193	MNES, CTES
<i>Psychotria brevicollis</i> Muell. Arg.	S. 582	MNES, CTES, G
<i>Psychotria carthagensis</i> Jacquin	D. 197	MNES, CTES, G
<i>Psychotria leiocarpa</i> Cham. et Schlecht.	D. 180	MNES, CTES, BAB, G
<i>Psychotria myriantha</i> Muell. Arg.	S. 192	MNES, CTES, G
<i>Richardia brasiliensis</i> Gómez	R. 547	MNES, CTES, G
<i>Rudgea parquioides</i> (Cham.) Muell. Arg.	S. 862	MNES, CTES, G
<i>Schwenckia blumenaviensis</i> K. Schuman	D. 126	MNES, CTES, SI, G
RUTACEAE		
<i>Balfourodendron riedelianum</i> (Engl.) Engl.	H. 551	MNES
<i>Citrus reticulata</i> Blanco	Obs.	
<i>Helietta apiculata</i> Benth	Obs.	
<i>Pilocarpus pennatifolius</i> Lem.	D. 117	MNES, CTES, G
SAPINDACEAE		
<i>Cardiospermum grandiflorum</i> Sw.	D. 192	MNES, CTES, G
<i>Cupania vernalis</i> Camb.	D. 286	MNES, CTES, G
<i>Diatenopterix sorbifolia</i> Radlk.	Obs.	
<i>Matayba eleagnoides</i> Radlk.	S. 874	MNES
<i>Serjania meridionalis</i> Cambess.	D. 195	MNES, CTES, G
<i>Serjania fuscifolia</i> Radlk.	R. 666	MNES, BAB, CTES, G
<i>Thinouia ventricosa</i> (L.) Blume	G. 194	MNES, CTES, SI, G
<i>Thinouia mucronata</i> Radlk.	S. 219	MNES, CTES, G
<i>Urvillea uniloba</i> Radlk.	De. 87	MNES, BAB, G

<i>Taxa</i>	<i>Leg.</i>	<i>Herbaria</i>
SAPOTACEAE		
<i>Chrysophyllum gonocarpum</i> (Mart. et Eichler) Engler	P. 32	MNES
<i>Chrysophyllum marginatum</i> (Hook. et Arn.) Raldk.	R. 535	MNES, CTES
SCROPHULARIACEAE		
<i>Calceolaria tripartita</i> R. et P.	R. 672	MNES, CTES, G
<i>Mecardonia grandiflora</i> (Benth.) Pennell	R. 527	MNES, CTES, G
<i>Scoparia dulcis</i> L.	R. 553	MNES, CTES, G
<i>Stemodia verticillata</i> (Mill.) Hassl.	R. 552	MNES, G
SOLANACEAE		
<i>Cestrum strigillatum</i> R. & P.	De. 95	MNES, G
<i>Cyphomandra</i> sp.	R. 662	MNES, CTES
<i>Solanum granulosoleprosum</i> Dunal	Obs.	
<i>Solanum trachytrichium</i> Bitter	R. 674	MNES, BAB, CTES
<i>Solanum</i> sp.	H. 546	MNES, CBA
STERCULIACEAE		
<i>Byttneria australis</i> St. Hil.	R. 545	MNES, CTES, G
TILIACEAE		
<i>Corchorus argutus</i> Kunth	R. 548	MNES, CTES, G
<i>Helicocarpus popayanensis</i> H.B.K.	De. 123	MNES, CTES, G
<i>Luehea divaricata</i> Mart.	R. 406	MNES, CTES, G
URTICACEAE		
<i>Boehmeria caudata</i> Sw.	S. 212	MNES, CTES, G
<i>Pilea pubescens</i> Liebm.	S. 194	MNES, CTES, G
<i>Pilea</i> sp.	D. 264	MNES
<i>Urera aurantiaca</i> Wedd.	G. 172	MNES, SI, G
VERBENACEAE		
<i>Aloysia virgata</i> (R. & P.) A. Juss.	D. 273	MNES
<i>Aloysia virgata</i> (R. & P.) Juss. var. <i>virgata</i>	R. 544	MNES, CTES, BAB, G
<i>Bouchea fluminensis</i> (Vell.) Mold.	H. 495	MNES, G
<i>Lantana</i> sp.	S. 222	MNES, CTES, G
<i>Stachytarpheta cayennensis</i> (Rich.) Vahl	H. 480	MNES, G
<i>Verbena montevidensis</i> Spr.	D. 198	MNES, CTES
VIOLACEAE		
<i>Anchietea parvifolia</i> Hall. F.	S. 217	MNES, CTES, G
<i>Hybanthus communis</i> (St.Hil.) Taub.	R. 539	MNES, G
<i>Hybanthus parviflorus</i> (Mult.) Bait	G. 162	MNES, CTES, G
<i>Hybanthus paraguariensis</i> (Chod.) G.K. Schulze	R. 538	MNES, G
<i>Hybanthus bigibbosus</i> (St.Hil.) Hassl.	H. 560	MNES
VISCACEAE		
<i>Phoradendron</i> cfr. <i>pruinatum</i> Orb.	R. 410	MNES, CTES, G

<i>Taxa</i>	<i>Leg.</i>	<i>Herbaria</i>
VITACEAE		
<i>Cissus sulcicaulis</i> (Baker) Planchon	De. 97	MNES, CTES, G
<i>Cissus verticillata</i> (L.) Nicolson et C.E. Jarvis	H. 530	MNES, CTES
<i>Cissus verticillata</i> (L.) subsp. <i>verticillata</i> Nicolson et C. E. Jarvis	S. 211	MNES, CTES, G
<i>Cissus</i> sp.	R. 541	MNES, CTES
PTERIDOPHYTA (Ferns family and related groups)		
ASPLENIACEAE		
<i>Asplenium auritum</i> Sw.	G. 209	MNES, LP, SI, G
<i>Asplenium clausennii</i> Hieron.	G. 208	MNES, CTES, G
<i>Asplenium laetum</i> Sw.	P. 30	MNES, LP, G
<i>Asplenium delitescens</i> (Maxon) L. D. Gómez x <i>A. laetum</i> Sw.	G. 204	MNES, CTES, LP, G
<i>Asplenium</i> sp.	P. 58	MNES, G
<i>Phyllitis brasiliensis</i> (Sw.) Kuntze	P. 29	MNES, LP, G
ATHYRIACEAE		
<i>Diplazium cristatum</i> (Desrouss.) Alston	G. 205	MNES, CTES, SI
BLECHNACEAE		
<i>Blechnum occidentale</i> L.	G. 173	MNES, CTES, G
<i>Blechnum</i> sp.	P. 26	MNES, G
CYATHEACEAE		
<i>Alsophila setosa</i> Kaulf.	G. 219	MNES
DENNSTAEDTIACEAE		
<i>Dennstaedtia globulifera</i> (Poir.) Hieron.	G. 135	MNES, CTES, G
LYCOPODIACEAE		
<i>Lycopodium</i> sp.	Obs.	
POLYPODIACEAE		
<i>Campyloneurum major</i> (Hieron. ex Hicken) Lellinger	S. 200	MNES, G
<i>Didymochlaena truncatula</i> (Sw.) J. Sm.	D. 120	MNES, CTES
<i>Microgramma squamulosa</i> (Kaulf.) de la Sota	S. 184	MNES, SI, G
<i>Microgramma</i> sp.	R. 407	MNES
<i>Niphidium crassifolium</i> (L.) Lellinger	P. 46	MNES
<i>Phlebodium</i> sp.	P. 54	MNES, G
<i>Pecluma filicula</i> (Kaulf.) M. G. Price	P. 35	MNES
<i>Pecluma pectiniforme</i> (Lindm.) M.G. Price	S. 199	MNES, CTES
<i>Pecluma sicca</i> (Lindm.) M.G. Price	D. 99	MNES, G
<i>Pecluma venturii</i> (de la Sota) M.G. Price	P. 53	MNES, G
<i>Polypodium loriceum</i> Langsd. & Fisch.	S. 197	MNES, CTES
<i>Polypodium hirsutissimum</i> Raddi	S. 189	MNES, CTES
PTERIDACEAE		
<i>Adiantopsis chlorophylla</i> (Sw.) Fée	G. 215	MNES, CTES, G
<i>Adiantum latifolium</i> Lam.	G. 179	MNES, CTES, G
<i>Adiantum lorentzii</i> Hieron.	G. 180	MNES, CTES, G

<i>Taxa</i>	<i>Leg.</i>	<i>Herbaria</i>
<i>Adiantum thalictroides</i> Willd. ex Schlecht.var. <i>thalictroides</i>	G. 214	MNES, CTES, G
<i>Anogramma chaerophylla</i> (Desv.) Link.	R. 785	MNES, CTES
<i>Doryopteris concolor</i> (Langsd. et Fisch.) Kuhn.	G. 206	MNES, SI, G
<i>Doryopteris nobilis</i> (Moore) C. Chr.	G. 211	MNES, CTES, G
<i>Doryopteris pedata</i> (L.) Féé var. <i>multipartita</i> (Fée) Tryon	G. 207	MNES, SI, G
<i>Doryopteris triphylla</i> (Lam.) H. Chr.	R. 579	MNES, CTES, G
<i>Doryopteris</i> sp.	G. 181	MNES
<i>Hemionitis tomentosa</i> (Lam.) Raddi	S. 811	MNES
<i>Pteris deflexa</i> Link	G. 203	MNES, CTES, G
<i>Pteris denticulata</i> Sw.	G. 216	MNES, CTES, G
SCHIZAEACEAE		
<i>Anemia phyllitidis</i> (L.) Sw.	G. 134	MNES, SI, G
<i>Anemia tomentosa</i> (Savigni) Sw. var. <i>anthriscifolia</i> (Schrad.) Mick.	G. 189	MNES, G
SELAGINELLACEAE		
<i>Selaginella sulcata</i> (Desv. ex Poir.) Spring. ex Mart.	G. 200	MNES, CTES, G
<i>Selaginella aff. novao-nollandiae</i> (Sw.) Spring.	G. 201	MNES, CTES, SI
THELYPTERIDACEAE		
<i>Macrothelypteris torresiana</i> (Gaudich.) Ching	G. 133	MNES, CTES, G
<i>Thelypteris</i> sp.	G. 220	MNES, G
VITTARIACEAE		
<i>Vittaria lineata</i> J. Sn.	P. 33	MNES

L I C H E N E S**BUELLIACEAE**

<i>Buellia</i> cfr. <i>myriocarpa</i> Dnot	R. 941b	MNES
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CALICIACEAE

<i>Calicium</i> sp.	R. 941	MNES
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CHIODECTONACEAE

<i>Chiodecton</i> sp.	S. 229	MNES, CTES, G
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CLADONIACEAE

<i>Cladonia chlorophaea</i> (Flörke ex Sommerf.) Sprengel	R. 581	MNES, CTES, G
<i>Cladonia</i> sp.	R. 439	MNES, CTES, G

LECANORACEAE

<i>Haematomma puniceum</i> (Sw.) Mass.	R. 942	MNES
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PARMELIACEAE

<i>Everniastrum</i> sp.	R. 437	MNES, CTES, G
<i>Hypotrachyna immaculata</i> (Kurok.) Hale	R. 940	MNES
<i>Parmotrema mesotropum</i> (Mull. Arg.) Hale	R. 435	MNES
<i>Parmotrema sancti-angele</i> (Lynge) Hale	S. 228	MNES, CTES, G
<i>Parmotrema tinctorum</i> (Nyl.) Hale	S. 225	MNES, G
<i>Parmotrema</i> sp.	S. 228 b	MNES, CTES
<i>Pleuretelia</i> sp.	S. 231 b	MNES, CTES

<i>Taxa</i>	<i>Leg.</i>	<i>Herbaria</i>
PYXIMACEAE		
<i>Heterodermia</i> sp.	S. 231 c	MNES, CTES
STICTACEAE		
<i>Sticta</i> sp.	R. 436	MNES, G
TELOSCHISTACEAE		
<i>Teloschistes exilis</i> (Michx.) Vain	R. 438	MNES
USNEACEAE		
<i>Ramalina celastri</i> (Spreng.) Krog. & Swins	R. 931	MNES, G
<i>Ramalina peruviana</i> Ach.	S. 227	MNES
<i>Ramalina celastri</i> (Spreng.) Krog & Swins	R. 433	MNES
ABBREVIATIONS OF COLLECTORS		
D = J. R. Daviña et al.	P = A. Pérez et al.	
De = M. Dematteis et al.	R = M. E. Rodríguez et al.	
G. = R. Guillén et al	S = G. J. Seijo et al.	
H = A. I. Honfi et al.		

Table 2. – Specific representativity by family in the Moconá Park.

<i>Families</i>	<i>Number of collected species by family</i>	<i>Specific representativity %</i>
S P E R M A T O P H Y T A		
A N G I O S P E R M A E		
POACEAE	40	9.73
FABACEAE	27	6.56
ASTERACEAE, RUBIACEAE	18	4.37
EUPHORBIACEAE	16	3.89
ORCHIDACEAE	11	2.67
CYPERACEAE	10	2.43
MYRTACEAE , SAPINDACEAE	9	2.18
BIGNONIACEAE, PIPERACEAE	8	1.94
AMARANTHACEAE	7	1.70
LABIATAE, VERBENACEAE	6	1.45
ACANTHACEAE, CACTACEAE, CONVOLVULACEAE, MELIACEAE, SOLANACEAE, VIOLACEAE	5	1.21
P T E R I D O P H Y T A		
PTERIDACEAE	13	3.16
POLYPODIACEAE	12	2.91
ASPLENIACEAE	6	1.45
L I C H E N		
PARMELIACEAE	7	1.70

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