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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 floristico 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-WORDS: 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 recogniced 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

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(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 Berlín-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, Calyptranthes tricona,*

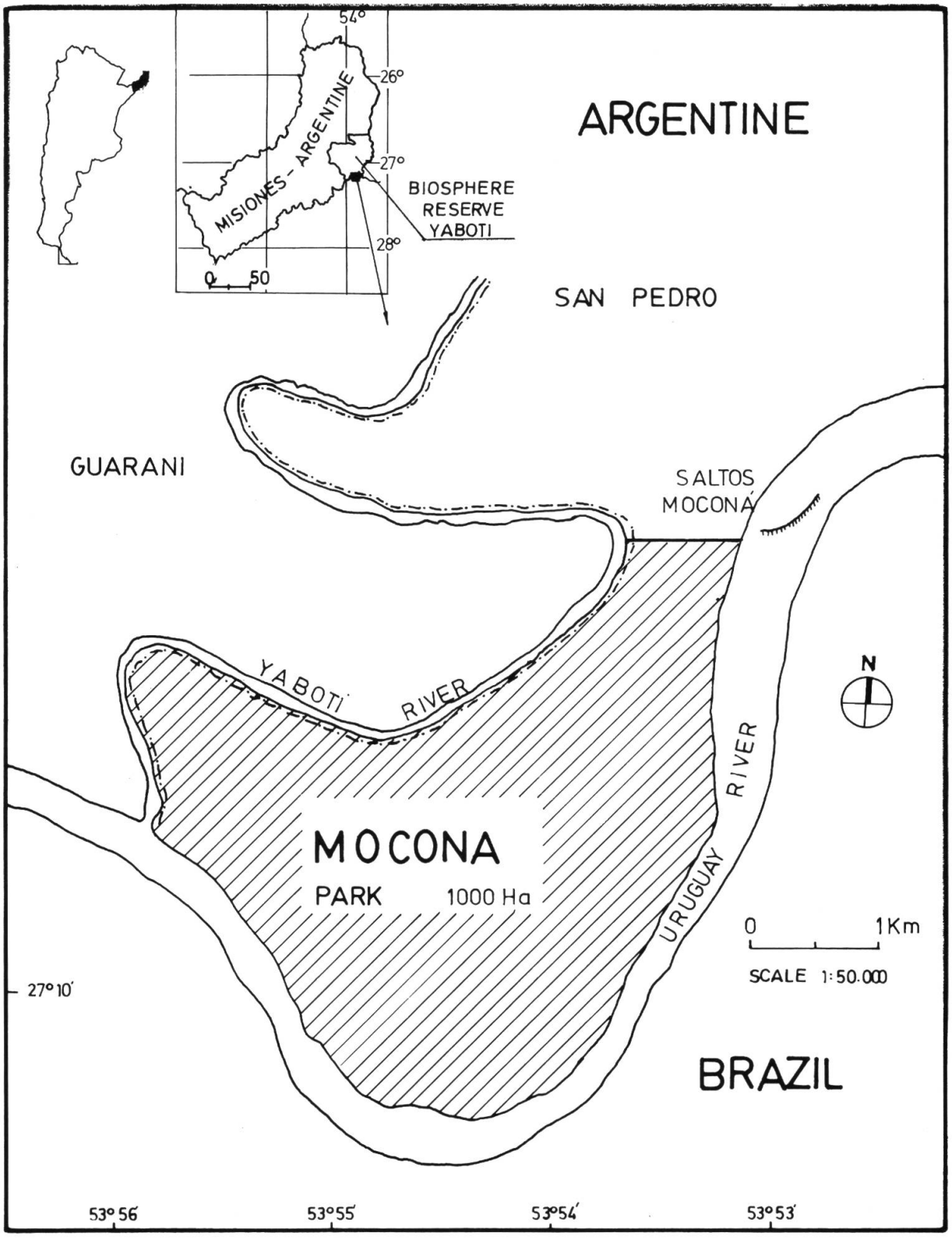

Fig. 1. – Geographic location of the Moconá Park.

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. carthagenensis* and *Schwenckia blumenaviensis.* 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 relics 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 *Cephallanthus glabratus, Mimosa uragüensis, 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 granuloso-leprosum*, *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, Condilocarpon 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 tricona* were reported for the first time for the Argentine flora (RODRÍGUEZ, 1995; VANNI & RODRÍGUEZ, 1998 and TRESSENS & RODRÍGUEZ, 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		
Echinodorus grandiflorus (Cham. et Schlecht.) Micheli	G. 182	MNES, CTES
AMARYLLIDACEAE		
Hippeastrum iguazuanum (Ravenna) T.H. Dudley & M. William	D. 314	MNES, B, CORD
Zephyranthes flavissima Ravenna	D. 279	MNES, B, CTES, G
ARACEAE		
Philodendron bipinnatifidum Schott	Obs.	
ARECACEAE		
Syagrus romanzoffiana (Cham.) Glassman	Obs.	
BROMELIACEAE		
Aechmea calyculata (E. Morren) Bak.	R. 709	MNES, BAB, CTES, G
Billbergia nutans H. Wendl. ex Regel	P. 36	MNES, G
Tillandsia stricta Sol.	R. 408	MNES, CTES
Tillandsia sp.	H. 535	MNES, CTES, G
CANNACEAE		
Canna sp.	De. 90	MNES, CTES
Canna sp.	R. 673	MNES, CTES, G

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

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

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

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

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

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

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

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

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

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

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

Taxa	*Leg.*	*Herbaria*
Adiantum thalictroides Willd. ex Schlecht.var. *thalictroides*	G. 214	MNES, CTES, G
Anogramna chaerophylla (Desv.) Link.	R. 785	MNES, CTES
Doryopteris concolor (Langsd. et Fisch.) Kuhn.	G. 206	MNES, SI, G
Doryopteris nobilis (Moore) C. Chr.	G. 211	MNES, CTES, G
Doryopteris pedata (L.) Fée var. *multipartita* (Fée) Tryon	G. 207	MNES, SI, G
Doryopteris triphylla (Lam.) H. Chr.	R. 579	MNES, CTES, G
Doryopteris sp.	G. 181	MNES
Hemionitis tomentosa (Lam.) Raddi	S. 811	MNES
Pteris deflexa Link	G. 203	MNES, CTES, G
Pteris denticulata Sw.	G. 216	MNES, CTES, G
SCHIZAEACEAE		
Anemia phyllitidis (L.) Sw.	G. 134	MNES, SI, G
Anemia tomentosa (Savigni) Sw. var. *anthriscifolia* (Schrad.) Mick.	G. 189	MNES, G
SELAGINELLACEAE		
Selaginella sulcata (Desv. ex Poir.) Spring. ex Mart.	G. 200	MNES, CTES, G
Selaginella aff. *novao-nollandiae* (Sw.) Spring.	G. 201	MNES, CTES, SI
THELYPTERIDACEAE		
Macrothelypteris torresiana (Gaudich.)Ching	G. 133	MNES, CTES, G
Thelypteris sp.	G. 220	MNES, G
VITTARIACEAE		
Vittaria lineata J. Sn.	P. 33	MNES
LICHENES		
BUELLIACEAE		
Buellia cfr. *myriocarpa* Dnot	R. 941b	MNES
CALICIACEAE		
Calicium sp.	R. 941	MNES
CHIODECTONACEAE		
Chiodecton sp.	S. 229	MNES, CTES, G
CLADONIACEAE		
Cladonia chlorophaea (Flörke ex Sommerf.) Sprengel	R. 581	MNES, CTES, G
Cladonia sp.	R. 439	MNES, CTES, G
LECANORACEAE		
Haematomma puniceum (Sw.) Mass.	R. 942	MNES
PARMELIACEAE		
Evermiastrum sp.	R. 437	MNES, CTES, G
Hypotrachyna immaculata (Kurok.) Hale	R. 940	MNES
Parmotrema mesotropum (Mull. Arg.) Hale	R. 435	MNES
Parmotrema sancti-angele (Lynge) Hale	S. 228	MNES, CTES, G
Parmotrema tinctorum (Nyl.) Hale	S. 225	MNES, G
Parmotrema sp.	S. 228 b	MNES, CTES
Pleuretelia sp.	S. 231 b	MNES, CTES

Taxa	*Leg.*	*Herbaria*
PYXIMACEAE		
Heterodermia sp.	S. 231 c	MNES, CTES
STICTACEAE		
Sticta sp.	R. 436	MNES, G
TELOSCHISTACEAE		
Teloschistes exilis (Michx.) Vain	R. 438	MNES
USNEACEAE		
Ramalina celastri (Spreng.) Krog. & Swins	R. 931	MNES, G
Ramalina peruviana Ach.	S. 227	MNES
Ramalina celastri (Spreng.) Krog & Swins	R. 433	MNES

ABBREVIATIONS OF COLLECTORS

D = J. R. Daviña et al.
De = M. Dematteis et al.
G. = R. Guillén et al
H = A. I. Honfi et al.
P = A. Pérez et al.
R = M. E. Rodríguez et al.
S = G. J. Seijo et al.

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

Families	*Number of collected species by family*	*Specific representativity %*
SPERMATOPHYTA		
ANGIOSPERMAE		
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
PTERIDOPHYTA		
PTERIDACEAE	13	3.16
POLYPODIACEAE	12	2.91
ASPLENIACEAE	6	1.45
LICHEN		
PARMELIACEAE	7	1.70

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