

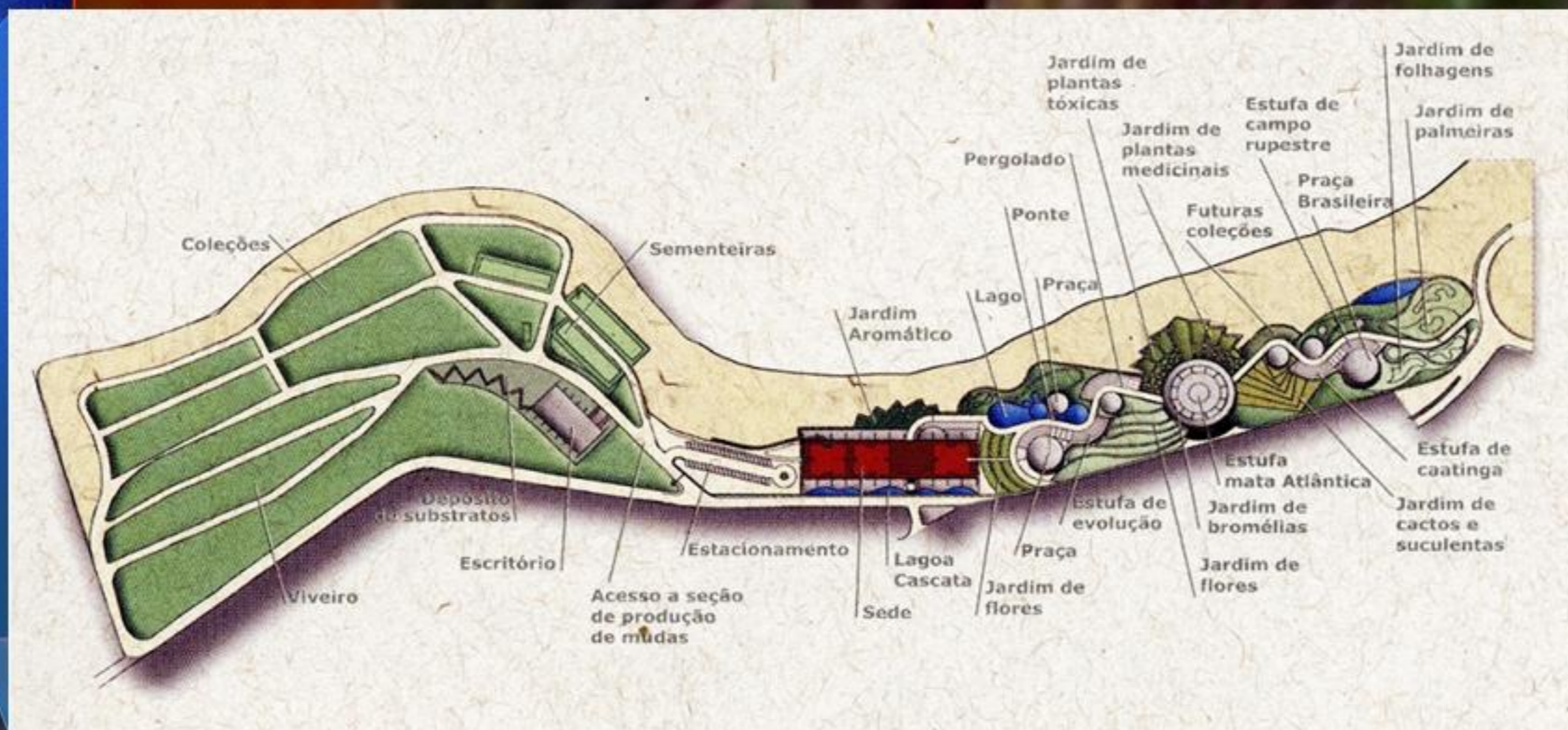
Live collections and conservation in the Botanic Garden of the Fundação Zoo-Botânica de Belo Horizonte, Brazil.

REGO, Juliana O.; FERNANDES, Maria Guadalupe C.; ANDRADE, Inês R. de; MENDONÇA, Miriam P.; BACELAR, Márcia; NOGUEIRA, Albina C. de O. Jardim Botânico da Fundação Zoo-Botânica de Belo Horizonte, MG, Brasil.

www.pbh.gov.br/zoobotanica (juordones@hotmail.com).



The Botanic Garden occupies a 10 ha area at the Fundação Zoo-Botânica de Belo Horizonte (FZB-BH, 44°01'W & 19°51'S), that is located in Belo Horizonte, Minas Gerais State, Brazil.



Acquisition

In the Botanic Garden of the FZB-BH the inventories of the native flora contribute to enrich the collections, are duly documented and become effective conservation instruments.

Another form of enrichment of the collections are the flora rescue programs, that are instruments for the protection of endangered endemic species.

Living Collections

The Botanic Garden collections actually holds 692 native species of Araceae [222], Bromeliaceae [61], Cactaceae [91], Orchidaceae [77], Pteridophyta [51], Atlantic Forest [156], and Campos Rupestres [34].

Among these, 55 species are included in the Brazilian and Minas Gerais State Red Lists of Threatened Plants, and they are shown on Table 1.

Goals

Allying the *ex situ* conservation with the *in situ* conservation techniques and interact with different segments of the society, is nowadays our greatest defy. This multiple focusing, which is the integrated conservation, will warrant the effectiveness of the conservation in the Botanic Garden of the FZB-BH.



Collection: Araceae



Collection: Bromeliaceae



Collection: Cactaceae



Collection: Orchidaceae



Collection: Pteridophyta



Collection: Atlantic Forest



Collection: Campo Rupestre

TABLE 1: Threatened species that has been cultivated; CR: Critically endangered; EN: Endangered; VU: Vulnerable; DD: Data Deficient. (IUCN,2006); Green lines: Cerrado species; Yellow lines: Atlantic Forest species; Orange: Caatinga species.

FAMILY	SPECIES	THREAT STATUS
Amaryllidaceae	<i>Habranthus imbricatus</i> Ravenna	VU (MG 2006), VU (BR 2005)
Amaryllidaceae	<i>Rhipsalis glaucescens</i> Mart.	EN (MG 2006)
Araceae	<i>Asterostigma lombardi</i> E.G. Gonçalves	EN (MG 2006)
Araceae	<i>Philodendron biribense</i> C.M. Sakuragui & Mayo	EN (MG 2006)
Araceae	<i>Philodendron curvicolium</i> Schott	CR (MG 2006)
Araceae	<i>Philodendron vargasiae</i> C.M. Sakuragui	CR (MG 2006)
Arecaceae	<i>Euterpe edulis</i> Mart.	VU (MG 2006)
Asteraceae	<i>Lychnophora pinaster</i> Mart.	VU (MG 2006)
Asteraceae	<i>Wunderlichia azulensis</i> Maguire & G.M. Barroso	CR (MG 2006), EN (BR 2005)
Bromeliaceae	<i>Cryptanthus glaziovii</i> Mez	VU (MG 2006), VU (BR 2005)
Bromeliaceae	<i>Cryptanthus schwackeanus</i> Mez.	VU (MG 2006)
Bromeliaceae	<i>Dyckia schwackeani</i> Mez.	CR (MG 2006)
Bromeliaceae	<i>Dyckia urubici</i> L.B. Sm.	CR (MG 2006)
Bromeliaceae	<i>Encholirium longifolium</i> Leme	EN (MG 2006)
Bromeliaceae	<i>Ochtophyllum beirngii</i> Leme & H. Luther	CR (MG 2006)
Bromeliaceae	<i>Vriesea atropurpurea</i> Silveira	VU (MG 2006), VU (BR 2005)
Bromeliaceae	<i>Vriesea miniata</i> L.B. Sm.	VU (MG 2006), VU (BR 2005)
Cactaceae	<i>Arthroceus glaziovii</i> (Schumann) N. P. Taylor & D. C. Zappi	CR (MG 2006), EN (BR 2005)
Cactaceae	<i>Cipocereus laniflorus</i> N. P. Taylor & D. C. Zappi	EN (BR 2005), CR (MG 2006)
Cactaceae	<i>Cipocereus minensis</i> (Werd.) F. Ritter	EN (BR 2005)
Cactaceae	<i>Colobocylindropuntia burbanckiana</i> subsp. <i>rupestris</i> (F. Ritter) N. P. Taylor & D. C. Zappi	EN (MG 2006)
Cactaceae	<i>Melocactus conoideus</i> Buining & Brederoso	CR (MG 2006)
Cactaceae	<i>Perequia aureiflora</i> F. Ritter	VU (MG 2006), VU (BR 2005)
Cactaceae	<i>Pilosocereus flocosus</i> subsp. <i>quadricostatus</i> (F. Ritter) Zappi	VU (BR 2005), VU (MG 2006)
Cactaceae	<i>Pilosocereus magnificus</i> (Buining & Brederoso) Ritter	VU (MG 2006)
Cactaceae	<i>Pilosocereus multicaulus</i> F. Ritter	VU (MG 2006)
Cactaceae	<i>Pseudocylindropuntia brasiliensis</i> (Britton & Rose) F. Ritter	VU (MG 2006)
Cactaceae	<i>Rhipsalis pilocarpa</i> Ledeb.	EN (MG 2006), VU (BR 2005)
Cactaceae	<i>Rhipsalis russellii</i> Britton & Rose	VU (MG 2006)
Cactaceae	<i>Tachyia bruni</i> E. Esteves Pereira	EN (MG 2006)
Cactaceae	<i>Tachyia werneri</i> (Eggt) N. P. Taylor & Stuppy	CR (MG 2006)
Cactaceae	<i>Jaracatia couratensis</i> Kuntze	DD (MG 2006)
Costaceae	<i>Chamaecostus cuspidatus</i> (Nees & Mart.) C. Specht & D. W. Stev.	VU (MG 2006), EN (BR 2005)
Dicksoniaceae	<i>Dicksonia selowiana</i> Stapf	EN (BR 2005), VU (MG 2006)
Fabaceae	<i>Dimorphandra wilsonii</i> Rizzini	CR (BR 2005), CR (MG 2006)
Gesneriaceae	<i>Paliavana serciflora</i> Benth.	VU (MG 2006)
Gesneriaceae	<i>Sinningia ruscicola</i> (Mart.) Wiehler	VU (MG 2006)
Heliconiaceae	<i>Heliconia angusta</i> Vell.	CR (MG 2006)
Malvaceae (Bombacaceae)	<i>Cavendishia arborea</i> K. Schum.	VU (MG 2006)
Meliaceae	<i>Swietenia macrophylla</i> King	VU (BR 2005)
Orchidaceae	<i>Cattleya anethyloblossa</i> Linden & Reichb. f. ex Warner	CR (MG 2006)
Orchidaceae	<i>Cattleya guttata</i> Lindl.	CR (MG 2006)
Orchidaceae	<i>Cattleya loddgei</i> Lindl.	EN (MG 2006)
Orchidaceae	<i>Cattleya walkeniana</i> Gardner	EN (MG 2006), VU (BR 2005)
Orchidaceae	<i>Oncidium crispum</i> Lodd.	EN (MG 2006)
Orchidaceae	<i>Oncidium gracile</i> Lindl.	CR (MG 2006), VU (BR 2005)
Orchidaceae	<i>Oncidium warmingii</i> Rchb. f.	VU (MG 2006)
Orchidaceae	<i>Sarcopogon schwackei</i> (Cong.) Schltr.	VU (MG 2006)
Orchidaceae	<i>Sophroneis brevicauculata</i> (Cogniaux) Fowle	VU (BR 2005), CR (MG 2006)
Orchidaceae	<i>Sophroneis caulescens</i> (Lindl.) C. Van den Berg & M.W. Chase	EN (MG 2006), VU (BR 2005)
Orchidaceae	<i>Sophroneis cinnabarina</i> (Bateman ex Lindl.) C. Van den Berg & M. W. Chase	VU (MG 2006)
Orchidaceae	<i>Sophroneis crispata</i> (Thunb.) C. Van den Berg & M.W. Chase	EN (MG 2006), VU (BR 2005)
Orchidaceae	<i>Sophroneis pingueana</i> (Rchb. f.) C. Van den Berg & M.W. Chase	EN (BR 2005), CR (MG 2006)
Rubiaceae	<i>Rhytidium speciosum</i> (Brid.) Stokes	CR (MG 2006)
Sapotaceae	<i>Chrysophyllum imense</i> (Lindl.) Benth. & Hook.f.	EN (MG 2006)



Dimorphandra wilsonii Rizzini



Lychnophora pinaster Mart.



Chamaecostus cuspidatus (Nees & Mart.) C. Specht & D. W. Stev.



Paliavana serciflora Benth.



Philodendron biribense C.M. Sakuragui & Mayo



Melocactus conoideus Buining & Brederoso



Arthroceus glaziovii (Schumann) N. P. Taylor & D. C. Zappi



Cipocereus laniflorus N.P. Taylor & D.C. Zappi

