Profile on Environmental and Social Considerations in Brazil

March 2014

Japan International Cooperation Agency

E R J R 14-001

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Abbreviations and Acronyms

	Portuguese	English
ABETRE	Associação Brasileira De Empresas de Tratamento de	Resi Brazilian Association of Hazardous Waste
		Treatment
		Assoçiacão Brasileira de Gays, Lésbicas,
ABGLT		Bissexuals, Travestis e Transexuals
ABNT	Associação Brasileira de Normas Tecnicas	Brazilian Association of Technical Standards
ACHR		American Convention on Human Rights
AI		Amnesty International
AIDS		Acquired ImmunoDeficiency Syndrome
ANA	Agencia Nacional de Aguas	National Water Agency
AZE		Alliance for Zero Extinction
BFP	Bolsa Familia Program	
BM&F	Bolsa Mercantil e de Futuros	Futures and Commodities Exchange
BSH	Brasil Sem Homofobia	
CadUnico	Cadastro Único	
CCA		Common Country Assessment
CCT		Conditional cash transfer
CDM		Clean Development Mechanism
CDRU	Contrato de Direito Real de Uso	Contract of Real Right to Use
CER		Certified Emission Reduction
CETESB	Companhia Ambiental Do Estado de Sao Paulo	Sao Paulo State Environment Agency
CGEN		Genetic Heritage Management National
		Council
CI		Conservation International
CIDES		UN Framework Convention on Climate Change
CIM	Comite interministerial sobre Mudanca do Clima	Inter-Ministerial Committee on Climate Change
CITES		Convention on International Trade in
		Endangered Species of Wild Fauna and Flora
CMS		Convention on Migratory Species of Wild
		Animals
CNBS		Biosafety National Commission
CNCD	Conselho Nacional de Combate à Discriminação	
CNIR		National Cadastre of Rural Properties
CNRH		National Water Resources Council
COMHURB		Municipal Housing and Urban Planning Council
CONAMA	Concelho Nacional do Meio Ambiente	National Environmental Council
CONIB	Confederação Israelita do Brasil	
CONTRAN		National Traffic Council
CRAS		Social Assistance Reference Center
CREAS		Specialized Social Assistance Reference Cente
CSMA		High Council on the Environment
CVM	Comissao de Valores Mobiliarios	Brazilian Securities and Exchange Commission
EBA		Endemic Bird Area
EIA		Environmental Impact Assessment
EMP		Environmental Management Plan

EORTC		European Organization for Research and
Lorre		Treatment of Cancer
FAO		Food and Agriculture Organization of the
		United Nations
FEEMA		State Environmental Engineering Foundation
FHC	Fernando Henrique Cardoso	
FMBC		Forum Brazileiro de Mudancas Climaticas
FUNAI	Fundação Nacional do Indio	National Indian Foundation
FUNDEF	Fundo de Manutenção e Desenvolvimento do Ensino	
	Fundamental e de Valorização do Magistério	
GDP	Gross Domestic Product	
GEF		Global Environmental Facility
Gex	Grupo Executivo sobre Mudanca do Climat	Executive Group on Climate Change
GHG		Greenhouse Gases
GLBT		Gay, lesbian, bisexual, transsexual and
		transgender
GMO		Genetic Modified Organism
HDI		Human Development Index
HRW		Human Rights Watch
IBA		Important Bird Areas
IBAMA		Brazilian Institute for Environment and
		Renewable Resources
IBGE		Brazilian Institute of Geography and Statistics
IBRA		Brazilian Agrarian Reform Institute
ICMBio		Chico Mendes Institute for Preservation of the
		Environment and Biodiversity
IEE		Initial Environmental Examination
IEPA		Institue of Applied Economic Researc
IGD		Indexes of performance for municipal and state
		Governments
ILGA		International Lesbian and Gay Association
ILO		International Labor Organization
INCRA		Institute of Agrarian Reform and Colonisation
INSS		National Social Securitu Institue
INTERAGUAS		Program for Development of the Water Sector
IPHAN	Instituto do Patrimônio Historico e Artistico Nacional	National Historic and Artistic Heritage Institute
IPTU		Urban Land and Buildings Tax
ISER		Institute for Religious Studies
ITBI		Real Estate Transfer Tax
ITR		Tax on Rural Land
IUCN		Internation Union for Conservation of Nature
LI		Construction Permit
LO		Operating Permit
LP		Preliminary licece
MA		Ministry of Agriculture
MDG		Millennium Development Goals
MDIC		Ministry of the Industry and Foreign Trade
		Development
MF		Ministry of Finance
MMA	Ministerio do Meio Ambiante	Ministry of the Environment
MP	Ministerio Publico	Procecution Office
MS		Ministry of Health
MST		Landless Workers Movement

NBR		National Brazilian Standards
NCA		Noise Control Act
NEP		National Environmental Policy
NGO		Non-governmental organization
NIS		Social Identification Number
NSCU		National System of Conservation Units
OAS		Organization of American States
PA		Protected Area
PAC		Growth Acceleration Programme
PDE		Educational Development Plan
PL		Public Law
PM		Particule Matter
PNDH		Programa Nacional de Direitos Humanos
TIVDII	Plano Nacional para Promoc?a?o da Cidadania e Direitos	1 Tograma Tracional de Diferios Hamanos
PNLGBT	Humanos de LGBTs	
PNQA		National Program of Water Quality Evaluation
PNSB	Pesquisa Nacional de Saneamento Basico	National Basic Sanisation Research
POPs		Persistent Organic Pollutants
PRAD		Recovering Plan of Damaged Areas
PRO-ALCOOl		National Alcohol Fuel Program
PROCEL		National Electricity Conservation Program
PRODES		River Basin Clean-up Program
PROGESTAO		Consolidation Program of the National Pact for
		Water Management
PROINFA		Program for Incentive of Alternative Electric
		Energy Sources
PRONAR		National Program of Air Quality Control
PT	Partido dos Trabhaldores	
REDD		Reducing Emissionf From Deforestation and
		Forest Degradation program
RIMA	Relatorio de Impacto Ambiental	Corresponding Environmental Impact Statement
SA		Secondary Area
SEA		Strategic Environmental Assessment
SEDH	Secretaria de Estado dos Direitos Humanos	
SEPPIR		Special Secretariat for the Promotion of Racial
		Equality
SIGERH		Integrated Water Resources Management
		System
SINGREH		National Water Resource Management System
SISNAMA		National Environmental System
SNIS	Sistema Nacional de Informações sobre Saneamento	The National Information System on Water,
		Sanitation, and Solid Waste

STAQ		Sustainable Transport and Air Quality
SVS	Secretaria de Vigilancia Sanitaria	Health Surveillance Secretariat
TAC	Termos de Ajustamento de Conduta	Conduct Adjustment Terms
UN		United Nations
UNCT		United Nations Country Teams
UNCRPD		UN Convention on the Rights of Persons with
		Disabilities
UNDAF		United Nations Development Assistance
		Framework
UNDP		United Nations Development Programme
UNFCCC		United Nations Framework Convention on
		Climate Change
UNHCHR		United Nations Commission on Human Rights
UNICEF		United Nations Children's Fund
UNODC		The UN Office on Drugs and Crime
US		United States
WEEE		Waste of Electric Electronic Equipment
WHO		World Health Organization

Executive Summary

Japan International Cooperation Agency (JICA) introduced new "JICA guidelines for environmental and social considerations" in 2010. These guidelines encourage project proponents to give an appropriate consideration towards environmental and social impacts of JICA-supported projects. It also aims at ensuring JICA's support of its project proponents in order to help environmental and social considerations (ESC). This will help to define JICA's responsibilities and procedures of ESC.

In order to facilitate an appropriate ESC, JICA prepares a "country profile for environmental and social considerations" for each proposed country. This profile serves as a source of information that will implement the necessary measures of ESC in JICA-supported projects. The next review of a "country profile" is Brazil. In which we will discuss its literature, potential projects, interviews with local experts, and consultations and interviews with local experts and relevant agencies. This country profile will provide: 1) basic information on the state of Brazil's environment, 2) legal and administrative frameworks with procedural details of ESC in Brazil, and 3) Gap analysis between JICA's ESC and the ESC of Brazil along with its other development partners.

To verify collected baseline information, a technical tour of this site was conducted (January 05, 2014 – January 28, 2014). On this tour, a series of interviews were conducted in various locations. Including some federal government agencies located in Brasilia, including a few state environmental governments in the following six (6) states: DF, Amazonas, Para, Sao Paulo, Parana and Santa Catarina. The following is a key summary of the study results conducted on environmental and social considerations of Brazil.

1. Summary of Environmental Considerations

Brazil occupies most of the eastern part of the South American continent, which is considered to be its geographic heartland. This is also including the various islands in the Atlantic Ocean. The national territory extends 4,395 km from north to south and 4,319 km from east to west. Brazil's climate varies considerably from the tropical north (where the equator traverses the mouth of the Amazon) to the temperate zones below the Tropic of Capricorn. Temperatures below the equator are fairly high, averaging above 25 °C (77 °F). However, it does not reach the summer extremes of up to 40 °C (104 °F) in the temperate zones. There is little seasonal variation near the equator, although at times it can get cool enough for wearing a light jacket, especially in the rain.

Brazil has six major ecosystems: the Amazon Basin, a tropical rainforest system; the Pantanal, bordering Paraguay and Bolivia, a tropical wetland system; the Cerrado, a savanna system

covering much of the center of the country; the Caatinga, or thorny scrubland habitat of the Northeast; the Atlantic Forest (Mata Atlântica), extending along the entire coast from the Northeast to the South; and finally, the Pampas, or fertile lowland plains of the far South (Chapter 1).

Brazil is classified among one of the world's 17 mega-diverse countries, incorporating 70% of the world's known animal and plant species. It is estimated that Brazil hosts between 15-20% of all the world's biological diversity, and hosts the greatest number of endemic species on a global scale. These resources are not only important for the environmental services provided, but also for the development and usage of sustainable investment opportunities. The main threats concerning this biodiversity are: fragmentation and loss of habitats, introduction of alien species and/or exotic illnesses, overexploitation of plants and animals, use of hybrids and monoculture in agro-industry and reforestation programs, pollution, and climate change (Chapter 2).

Rapid urbanisation and industrial development are also creating such problems in Brazil as the increase of air, water, and soil pollution. The population growth has also forced cities to expand without consideration for these environmental impacts. Not only are infrastructures built by using products and methods that release harmful pollution into the air, but there is an increase of vehicles which take part in the degradation of air quality, as well. The discharge coming from urban and/or industrial waste, are filling the waters of Brazil's reservoirs, lakes, and rivers. Therefore, having both air and water pollution problems is currently leading to the pollution of Brazil's soil. The enormous amounts of solid waste generated and the lack of proper disposal are poisoning Brazil's entire ecosystem (Chapter 3).

However, Brazil is now trying to tackle these issues through a new effort of enforcing their rules and changing to different National Policies and Programs. The real challenge for Brazil remains as to how they can learn to manage and maintain economic development and still having environmental responsibility creating a more sustainable economic growth (Chapter 3).

Environmental Impact Assessment (EIA) was established in 1981 with the enactment of the National Environmental Policy (NEP) created through Law 6.938/81. CONAMA's Resolutions 01/86 and 237/97 define basic characteristics of the EIA process of Brazil. EIA is associated with the licensing of activities which have the potential to significantly impact the environment.

The environmental licensing procedure in Brazil includes the analysis of documents, projects, and environmental studies to be submitted by an entrepreneur. Licensing procedures of certain activities deemed to significantly impact the environment requires EIA and a corresponding environmental impact statement, RIMA. The EIA and RIMA (EIA/RIMA) both must submit approval of gaining the appropriate licenses and using the appropriate authorities (CONAMA)

Resolution No. 1/1986). The authorities responsible for the EIA review at Federal level are the IBAMA; at State level are the Environment Office/Environmental Council of the respective State.

Although several legal improvements of Brazilian EIA framework are recognized, some gaps still exist among these regulations. The following are major gaps recognized between JICA guidelines and Brazilian laws.

- JICA guidelines stress that measures for environmental and social considerations are to be implemented by ensuring a wide range of relevant stakeholder participation, and keeping transparency of decision-making. This also includes working towards information disclosure and ensuring efficiency. However, under the Brazilian regulation, public consultation and information disclosure tend to be conducted at a late planning stage.
- So, the ToR development of relevant environmental studies, usually conducted at the early planning stage, where upon subsuming advice and/or comments of competent agencies such as FUNAI, will occasionally become inadequate.

Project proponents should undertake an environmental assessment which fits in line with both governmental laws and JICA guidelines. Particularly with the involvement of competent agencies and/or organizations, there should be an assessment held in the earlier part of its project planning stage. Then, potential critical environmental and social factors can be identified through intra-disciplinary discussions and add more suitable management program. This will include mitigation measures are better developed in order to make the design of this projects concerns more environmentally sound and sustainable (Chapter 5).

2. Summary of Social Considerations

According to World Bank, the estimated population of Brazil was 198.7 million in 2012. The average rate of annual population growth between 2009 and 2013 was 0.9 %. Its population density was 23 people per km². Its GDP was \$2.253 trillion. The UNESCO Brasilia office says, 'the ever accelerating rate of economic growth in Brazil may lead the country to become the fifth largest economy in the world within the next decade.' In addition, GDP is expected to grow between 5.5 % and 6 % in the next few years. Brazil is structurally consolidating as an emerging country and regional leader. However, there are other indexes hidden behind economic development that show a country still bound to its past. Despite lifting approximately 25 million Brazilians out of poverty, there are still 54 million people that need assistance. This is reflected in the Human Development Index (HDI), where Brazil is ranked 73rd amongst 169 countries. The same can be noted on the income distribution indicator (Gini per capita), which ranks Brazil in 75th position among the 183 countries surveyed.

Beyond material wealth and economic growth, Brazilian diversity (regional, cultural and

environmental) offers a rich experience, unique opportunities, and challenges related to fundamental elements of citizenship. These elements include: access to basic health care, education, housing, safety, sanitation, and drinking water. However Brazil, on average, plans to attain their Millennium Development Goals by 2015. It will take most states in the North and Northeast regions a few more decades to reach that same developmental level. More equitable development, between these regions, requires better territorial planning along with further qualification of the state and municipal public sector. Today, over 80 % of the Brazilian population resides in urban areas, with 45 % living in the metropolis. This has created much tension where there is a great divide between the rich and poor. According to UN-Habitat, approximately 100 million people live in the slums of Latin America and the Caribbean. There are 1.96 million homes considered to be inadequate living quarters in such Brazilian slums (Chapter 4).

According to the Instituto Brasileiro de Geografia e Estatística, Anglo-Saxons are reported to make up 48 % of entire population, then Mulato (43 %), African-descendants (8 %), Asians (1 %), and Indigenous groups (0.4 %). Here, Mixed Heritage is a term used to refer to a person who is born of any proportion of European and African ancestry. Currently, there are 197 forest-dwelling indigenous groups living either on reservations or in one of the four national parks (Chapter 7).

As for consideration towards indigenous people, the Brazilian 1988 Constitution along with the Law 7716 of 1989 and the Law 9459 of 1997 states that any acts of racism will have high consequences of penalties such as imprisonment. This is to ensure the protection of the existence of indigenous minorities. Basically, any development projects that could affect properties and/or lands of indigenous tribes shall conduct an EIA/RIMA study with consultation from FUNAI (Section 7.7). The following are major gaps recognized between JICA guidelines and Brazilian laws.

- Most public participation processes organized before relocation events tend to be held later
 in the planning stage, when the design framework is consolidated and there is no possibility
 to conduct design amendments to mitigate negative impacts.
- Also, ToR development of relevant social studies involved with agencies, such as FUNAI, become inadequate because they waited until after the planning stages are complete.

Current practices of JICA and other donors are keeping within their respective guidelines. Project proponents are also taking into consideration the indigenous people of Brazil in order to keep in with both governmental laws and JICA guidelines.

Land acquisition and involuntary resettlement are regulated by the 1964 Land Statute (Law No. 4504), the Law on Union Land (Law No. 9,636), City Statute (2001) and Civil Code (2002) (Chapter 6). In Brazil, there is no specific legislation regulating these resettlement issues. The

following are major gaps recognized between JICA guidelines and Brazilian laws.

- Brazil's Constitution and Land Statute allow for the compulsory acquisition of idle or underutilized land, following in their publics' interest. Relevant compensation is paid to PAPs, to some extent. Although that compensation scheme does not fully cover such instances like, the loss of businesses and/or job opportunities associated with the relocation to such new sites.
- Regarding involuntary resettlement, WB, IDB, and JICA have similar principles or policies
 to create sustainable assistance per case, and request project proponents to pay attention to
 those policies throughout the entire project implementation cycle. In Brazil, the involuntary
 resettlement of vulnerable people, such as illegal squatters, without proper land title is a
 continuing controversy.

Currently, the practices of JICA and other donors are keeping within their respective guidelines. Project proponents will be undertaking the land acquisition and involuntary resettlement issues with both governmental laws and JICA's guidelines.

Chapter 1 Country Overview

1.1 Overview

1.1.1 Map of Brazil



Figure 1.1.1 Map of Brazil

(Source: Guia Geografico, http://www.guiageografico.com/mapas/mapa-brasil.htm)

1.1.2 Location and Topography



Figure 1.1.2 Location of Brazil



Figure 1.1.3 Topography of Brazil

(Source: University of Texas Library, http://www.lib.utexas.edu/maps/americas/brazil_rel94.jpg)

Brazil occupies most of the eastern part of the South American continent and its geographic heartland, as well as various islands in the Atlantic Ocean. The only countries in the world that are larger are Russia, Canada, the People's Republic of China, and the United States. The national territory extends 4,395 km from north to south (5°16′20″ N to 33°44′32″ S latitude) and 4,319 km from east to west (34°47′30″ W to 73°59′32″ W longitude). It spans three time zones, the easternmost of which is one hour ahead of Eastern Standard Time in the United States. The time zone of the capital (Brasília) and of the most populated part of Brazil along the east coast (UTC-3) is two hours ahead of Eastern Standard Time, except when it is on its own daylight saving time, from October to February. The Atlantic islands are in the easternmost time zone.

Brazil possesses the archipelago of Fernando de Noronha, located 350 km northeast of its

"horn", and several small islands and atolls in the Atlantic - Abrolhos, Atol das Rocas, Penedos de São Pedro e São Paulo, Trindade, and Martim Vaz. In the early 1970s, Brazil claimed a territorial sea extending 362 km from the country's shores, including those of the islands.

On Brazil's east coast, the Atlantic coastline extends 7,367 km. In the west, in clockwise order from the south, Brazil has 15,719 km of borders with Uruguay, Argentina, Paraguay, Bolivia, Peru, Colombia, Venezuela, Guyana, Suriname, and French Guiana. The only South American countries with which Brazil does not share borders are Chile and Ecuador. A few short sections are in question, but there are no true major boundary controversies with any of the neighboring countries.

Brazil has six major ecosystems (see Table 1.1.1): the Amazon Basin, a tropical rainforest system; the Pantanal bordering Paraguay and Bolivia, a tropical wetland system; the Cerrado, a savanna system that covers much of the center of the country; the Caatinga or thorny scrubland habitat of the Northeast; the Atlantic Forest (Mata Atlântica) that extends along the entire coast from the Northeast to the South; and the Pampas or fertile lowland plains of the far South.

Table 1.1.1 Summary of Major Ecosystem in Brazil

Ecosystem Type		Main Features		
1	Amazon Basin	Area of nearly 5 million km ² , occupies nearly the whole northern part of South America up to the Andes. Amazon forest is a tropical rainforest with one of the world highest rates of biodiversity and also the most intact areas.		
2	Pantanal	The largest wetlands in the world, lying South of the Amazon and to the Southwest of the Cerrado, show influences of both these ecosystems. Considered to have the highest concentration of wildlife in the Americas.		
3	Cerrado	Plant community structure similar to the African savanna, but is much richer in biodiversity. Running diagonally from southwest to northeast, the Cerrado is also important as a corridor for animal and plant species to other ecosystems Brazil. The rapid expansion of Brazilian agriculture has greatly reduced the cerrado, which occupies 25% of Brazilian territory and makes it a conservation hotspot.		
4	Caatinga	Located in the bulge of north-eastern Brazil, too far from the moist Amazon inland and the ocean currents on the west lies the Caatinga characterized by scrubs, thorns, magnificent cactus formations and small contorted trees. Though this ancient land is also one of the poorest regions of the country, where years of drought can occur, its flora and fauna is surprisingly rich and it is home to some of Brazil's most important pre-historic sites. The disappearance of the Atlantic Rainforest, amongst other factors, is increasing the desertification pressures on this unique ecosystem.		
5	Atlantic Forest	Once covered an area of 1.1 million km ² has been diminishing since the		
6	Pampas	Located in the very South of Brazil. Apart from grasslands associated with 'Cerrado' and Atlantic Forest, there are also the Pampas of southern Brazil		

In contrast to the Andes, which rose to elevations of nearly 7,000 m in a relatively recent epoch and inverted the Amazon's direction of flow from westward to eastward, Brazil's geological formation is very old. Precambrian crystalline shields cover 36% of the territory, especially its

central area. The dramatic granite sugarloaf mountains in the city of Rio de Janeiro are an example of the terrain of the Brazilian shield regions, where continental basement rock has been sculpted into towering domes and columns by tens of millions of years of erosion, untouched by mountain-building events.

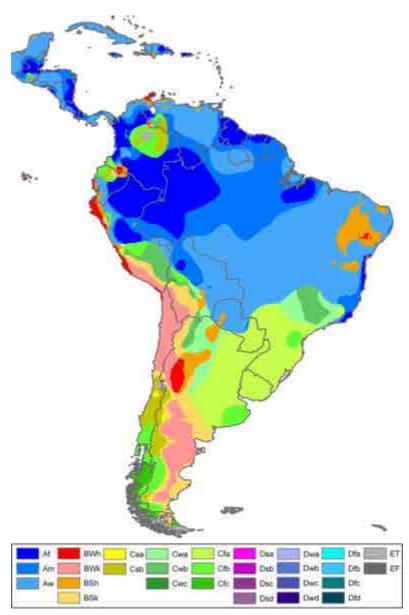
The principal mountain ranges average elevations just under 2,000 m. The Serra do Mar Range hugs the Atlantic coast, and the Serra do Espinhaço Range, the largest in area, extends through the south-central part of the country. The highest mountains are in the Tumucumaque, Pacaraima, and Imeri ranges, among others, which traverse the northern border with the Guianas and Venezuela.

In addition to mountain ranges (about 0.5 % of the country is above 1,200 m, Brazil's Central Highlands include a vast central plateau (Planalto Central). The plateau's uneven terrain has an average elevation of 1,000 m. The rest of the territory is made up primarily of sedimentary basins, the largest of which is drained by the Amazon and its tributaries. Of the total territory, 41 % averages less than 200 m in elevation. The coastal zone is noted for thousands of kilometers of tropical beaches interspersed with mangroves, lagoons, and dunes, as well as numerous coral reefs.

1.1.3 Climate

(1) General Climate

Figure 1.1.4 shows the general climate distribution across the entire South America. The climate of Brazil varies considerably mostly from tropical north (the equator traverses the mouth of the Amazon) to temperate zones below the Tropic of Capricorn (23°27' S latitude). Temperatures below the equator are high, averaging above 25 °C (77 °F), but not reaching the summer extremes of up to 40 °C (104 °F) in the temperate zones. There is little seasonal variation near the equator, although at times it can get cool enough for wearing a jacket, especially in the rain. Figure 1.1.5 shows the annual temperature and rain fall distribution in Brazil.



Note: Af: equatorial, Am: monsoon, Aw: tropical savannah

BWh: warm desert, Bwk: cold desert, Bsh: warm semi-arid, Bsk: cold semi-arid Csa: warm Mediterranean, Csb: temperate Mediterranean, Cwa: humid subtropical

Cwb: humid subtropical climate/subtropical oceanic highland climate Cwc: oceanic sub-polar, Cfa: warm oceanic climate/humid subtropical

Cfb: temperate oceanic, Cfc: cool oceanic, Dsa: warm continental/Mediterranean continental

Dsb: temperate continental/Mediterranean continental

Dsc: cool continental, Dsd: cold continental, Dwa: warm continental/humid continental

Dwb: temperate continental/humid continental, Dwc: cool continental/subarctic

Dwd: cold continental/subarctic, Dfa: warm continental/humid continental

Dfb: temperate continental/humid continental, Dfc: cool continental/subarctic

Dfd: cold continental/subarctic

ET: tundra, EF: ice cap

Figure 1.1.4 General Climate of South America

(Source: Wikimedia, http://commons.wikimedia.org/wiki/File:South-America_Koppen_Map.png)

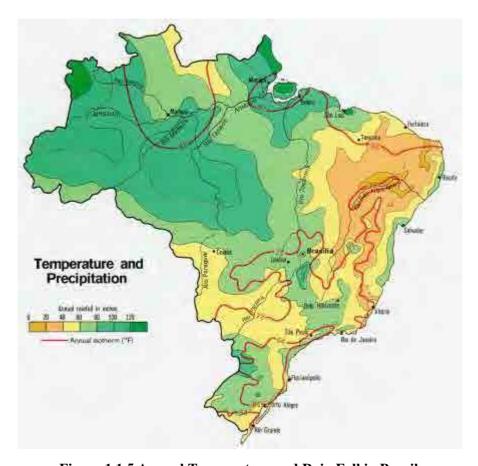


Figure 1.1.5 Annual Temperature and Rain Fall in Brazil

(Source: University of Texas Library, http://www.lib.utexas.edu/maps/brazil.html)

At the country's other extreme, there are frosts south of the Tropic of Capricorn and during the winter (June–September), and in some years there are snowfalls on the high plateau and mountainous areas of some regions. Snow falls more frequently in the states of Rio Grande do Sul, Santa Catarina, and Paraná and less frequently in the states of São Paulo, Rio de Janeiro, Minas Gerais, and Espírito Santo. Temperatures in the cities of Belo Horizonte and Brasília are moderate, usually between 15 °C and 30 °C, because of their elevation of approximately 1,000 m. Rio de Janeiro, Recife, and Salvador on the coast have warm climates, with average temperatures of each month ranging from 23 to 27 °C, but enjoy constant trade winds. The cities of São Paulo, Curitiba, Florianópolis and Porto Alegre have a subtropical climate similar to that of southern United States, and temperatures can fall below freezing in winter.

Precipitation levels vary widely. Most of Brazil has moderate rainfall of between 1,000 and 1,500 mm a year, with most of the rain falling in the summer (between December and April) south of the Equator. The Amazon region is notoriously humid, with rainfall generally more than 2,000 mm/year and reaching as high as 3,000 mm in parts of the western Amazon and near Belém. It is less widely known that, despite high annual precipitation, the Amazon rain forest has a three-to five-month dry season, the timing of which varies according to location north or

south of the equator.

High and relatively regular levels of precipitation in the Amazon contrast sharply with the dryness of the semiarid Northeast, where rainfall is highly erratic and there are severe droughts in cycles averaging seven years. The Northeast is the driest part of the country. The region also constitutes the hottest part of Brazil, where during the dry season between May and November, temperatures of more than 38 °C have been recorded. However, the sertão, a region of semi-desert vegetation used primarily for low-density ranching, turns green when there is rain. Most of the Center-West has 1,500 to 2,000 mm of rain per year, with a pronounced dry season in the middle of the year, while the South and most of the East is without a distinct dry season.

Although most of Brazil lies in the tropics, more than 60 % of the population live in areas which are cooled either by altitude, sea winds or polar fronts. While the coastal cities of Rio de Janeiro, Recife and Salvador can get extremely hot, plateau cities such as São Paulo, Brasília and Belo Horizonte have mild climates, and the southern cities of Porto Alegre and Curitiba have mild winters, but while Curitiba has a warm summer due to the average elevation of 934.6 m, Porto Alegre has a hot summer, with an average elevation of only 10 m.

Despite the popular image of the Amazon as a region of blistering heat, temperatures of more than 32 °C (90 °F) are in fact rare. The annual average temperature in the region is 22–26 °C, with not much variation between the warmest and the coldest months. The hottest part of Brazil is the northeast, where temperatures of more than 38 °C are frequently recorded during the dry season between May and November. Along the Atlantic coast from Recife to Rio de Janeiro, average temperatures range from 23 to 27 °C. Inland, on higher ground, temperatures are lower, ranging from 18 to 21 °C. South of Rio the seasons are more defined and the range of temperatures significantly wider, with the annual average falling between 17 and 19 °C.

Brazil's most intense rain falls around the mouth of the Amazon near the city of Belém, and also in the upper regions of Amazonia where more than 2,000 mm of rain fall every year. Most of Brazil has moderate rainfall of between 1,000 and 1,500 mm/year, most of it coming between December and April. The driest part of the country is the northeast, where rainfall is erratic and the evaporation rate very high, making it difficult to grow crops.

The highest temperature officially registered in Brazil was 44.7 °C in Bom Jesus, Piauí state, on November 21, 2005. On the other hand, the lowest temperature officially recorded in Brazil was -14 °C in Caçador, Santa Catarina state, on June 11, 1952. However, the summit of Morro da Igreja, a mountain situated in the municipality of Urubici, also in Santa Catarina, recorded a temperature of -17.8 °C on June 30, 1996, unofficially.

Because the South Atlantic basin is generally not a favorable environment for their development,

Brazil has only rarely experienced tropical cyclones. The country's coastal population centers are therefore not as burdened with the need to prepare for cyclones, as are cities at similar latitudes in the United States and Asia. Table 1.1.2 summarizes main features of regional climate in Brazil. More detailed descriptions for the regional climate are presented in next section, separately.

Table 1.1.2 Summary of Climate by Region

	Annual Temperature	Rainfall (mm/year)
1. South East	20 °C around the border between São Paulo and Paraná - 24 °C in north of Minas Gerais. Sometime, below 18 °C in elevated areas of Serra do Espinhaço, Serra da Mantiqueira and Serra do Mar.	Excess of 1,500 mm in general. Surpass 1,750 mm in elevated areas of Serra da Mantiqueira.
2. North-East	Temperatures are high, with annual averages between 20 and 28 °C, maxima of around 40 °C having been observed in the south of Maranhão and Piauí. The months of winter, mainly June and July, produce minimum temperatures between 12 and 16 °C in the coastal regions.	Annual totals vary from 2,000 mm to values even lower than 500 mm. In a general way, the annual medium precipitation in the northeast area is lower than 1,000 mm (39.4 in). Besides, the rainy period is usually of just two months in the year, sometimes not coming in some years, causing then the denominated regional droughts in the interior of this area.
3.South	Annual medium temperatures range from 14 to 22 °C, and in places with altitudes above 1,100 m, drops to approximately 10 °C. Some parts of the southern region also have an oceanic climate.	Annual medium rainfall oscillates from 1,250 to 2,000 mm, except along the coast of Paraná and west of Santa Catarina, where the values are in excess of 2,000 mm (78.7 in), and in the north of Paraná and in a small coastal area of Santa Catarina, which have lower recordings down to 1,250 mm.
4. North	In general, weather is hot, with annual medium temperatures ranging from 24 to 26 °C.	Annual rainfall exceeds 3,000 mm. Around Roraima to east of Pará, there is less rain, with annual totals in the order of 1,500 to 1,700 mm.
5. Middle West	Annual medium temperature is 22 °C. In spring and summer, temperatures are commonly high, the average of the hottest month varying from 24 to 26 °C. Average of the maximum temperatures of September (hotter month) oscillates between 30 and 36 °C.	Annual medium rainfall varies from 2,000 to 3,000 mm in north of Mato Grosso, to 1,250 mm in Pantanal mato-grossense.

(2) Climate by Region

1) South East Region

The latitudinal position around the Tropic of Capricorn, the very uneven topography and disturbed circulation systems greatly influence the climatology of the Southeast and it is quite diverse in temperature. The annual medium temperature ranges from 20 °C as seen on the border between São Paulo and Paraná to 24 °C in the north of Minas Gerais, while in the elevated areas of the Serra do Espinhaço, Serra da Mantiqueira and Serra do Mar the average medium temperature can be below 18 °C due to the combined effect of the latitude with the frequency of the polar currents.

In the summer, mainly in the month of January, the normal average temperatures range from 30 to 32 °C in the valleys of the rivers São Francisco and Jequitinhonha, in the Zona da Mata (Forest Zone) of Minas Gerais, in the coastal lowlands and to the west of the state of São Paulo. In the winter, the normal average temperatures range from 6 to 20 °C with minimum absolute from -4 to 8 °C, the lowest temperatures being at the highest elevations. Vast areas of Minas Gerais and São Paulo register occurrences of frosts, after the passage of the polar fronts.

As far as the incidence of rain is concerned, there are two areas with heavy precipitation: one following the coast and the Serra do Mar, where the rains are precipitated by the southerly currents; and the other from the west of Minas Gerais to the Municipal district of Rio de Janeiro, where the rains are brought by the Westerly system. The annual precipitation total in these areas is in excess of 1,500 mm. In the Serra da Mantiqueira these indexes surpass 1,750 mm, and at the summit of Itatiaia, 2,340 mm.

In the Serra do Mar, in São Paulo, it rains on the average more than 3,600 mm. Near Paranapiacaba and Itapanhaú maximum rainfall was measured at 4,457.8 mm in one year. In the valleys of the rivers Jequitinhonha and Doce the smallest annual pluviometric indexes are recorded at around 900 mm.

The maximum pluviometric index of the Southeast area usually occurs in January and the minimum in July, while the dry period is usually concentrated in the winter, lasting six months in the case of the valleys of the rivers Jequitinhonha and São Francisco, to as little as two months in the Serra do Mar and Serra da Mantiqueira.

2) North-East Region

The climatic characterization of the Northeast area is a little complex, and the four systems of circulation that influence the region are denominated Systems of Disturbed Currents of South, North, East and West. The System of disturbed currents of South is represented by the polar masses that reach the area in the spring-summer, acts in the coastal areas until the south of Bahia, bringing frontal and back-frontals rains. In the winter the polar masses reach even the coast of Pernambuco, while the hinterlands regions remain under the influence of the tropical mass.

The system of disturbed currents of North, represented by Convergence Intertropical (CIT), produces rain from the summer to the autumn even in Pernambuco, in the vicinity of the Raso da Catarina. On the other hand, the currents of the East are more frequent in the winter and they usually produce abundant rains in the coastal regions, rarely reaching the scarps of the Plateau

of Borborema (800 m) and of Chapada Diamantina (1,200 m).

Finally, the system of currents of the West, brought by the lines of Tropical Instability (IT), occur from the end of spring to the beginning of autumn, rarely reaching the states of Piauí and Maranhão.

Temperatures are high, with annual averages between 20 and 28 °C, maxima of around 40 °C having been observed in the south of Maranhão and Piauí. The months of winter, mainly June and July, produce minimum temperatures between 12 and 16 °C in the coastal regions, much lower in the plateau regions where temperatures of 1 °C have been recorded in Chapada Diamantina after the passage of a polar front.

The pluviosity of the area is complex and is source of concern: its annual totals vary from 2,000 mm to values even lower than 500 mm, as verified in the Raso da Catarina, between Bahia and Pernambuco, and in the depression of Patos in Paraíba. In a general way, the annual medium precipitation in the northeast area is lower than 1,000 mm - in the city of Cabaceiras, interior of Paraíba, was observed the smallest annual pluviometric index registered in Brazil, 278 mm/year. Besides it in the interior of this area the rainy period is usually of just two months every year, sometimes not coming in some years, causing then the denominated regional droughts.

3) South Region

The South region is located below the Tropic of Capricorn, in a temperate zone. It is influenced by the system of disturbed circulation of the South, which produces the rains, mainly in the summer. It is also influenced by the system of disturbed circulation of the West, that brings rains and storms, sometimes hail, producing winds with bursts of 60 to 90 km/h. Regarding temperatures: the winter is mild and the summer is hot. The annual medium temperatures range from 14 to 22 °C, and in places with altitudes above 1,100 m, drops to approximately 10 °C. Some parts of the southern region also have an oceanic climate.

In the summer, mainly in January, in the valleys of the rivers Paranapanema, Paraná and Ibicuí-Jacuí, the medium temperature is in excess of 24 °C, and the medium temperature of the river Uruguay surpasses 26 °C. The average maximum temperature stays around 24 to 27 °C on the elevated surfaces of the plateau and, in the lowest areas, between 30 and 32 °C.

In the winter, mainly in July, the medium temperature stays relatively low, oscillating between 10 and 15 °C, except for the valleys of the rivers Paranapanema and Paraná, besides the coast of Paraná and Santa Catarina, where the averages are approximately 15 to 18 °C. The average maximum temperature is also low, around 20 to 24 °C, in the big valleys and in the coast, and 16 to 20 °C in the plateau region. The average minimum temperature varies from 6 to 12 °C,

and the thermometer frequently registers temperatures near 0°C or below, accompanied by frost and snow, in consequence of the invasion of polar masses.

The annual medium pluviosity oscillates from 1,250 to 2,000 mm, except along the coast of Paraná and west of Santa Catarina, where the values are in excess of 2,000 mm, and in the north of Paraná and in a small coastal area of Santa Catarina, which have lower recordings down to 1,250 mm. The maximum pluviometric indexes occur in the winter and the minimum in the summer throughout almost the whole area.

4) North Region

The north area of Brazil embraces a great part of the Amazon Basin, representing the largest extension of hot and humid forest on the planet. The region has a low elevation (0 to 200 m) and is crossed by the Equator. There are four main systems of atmospheric circulation that act in the area, they are: system of winds of Northeast (NE) to East (E) of the Atlantic South and Azores, subtropical anticyclones, generally stable in nature; system of winds of West (W) of the mass equatorial continental (mEc); system of winds of North (N) of CIT; and system of winds of South (S) of the Polar anticyclone. These last three systems are responsible for variability of the climate and for the rains in the area. With regard to temperatures, the climate is hot, with annual medium temperatures ranging from 24 to 26 °C.

Regarding pluviosity, there is not a homogeneity as it occur with the temperature. In the mouth of the river Amazonas, in the coast of Pará and in the western section of the area, the total annual pluviometric index exceeds 3,000 mm in general. In the direction NO-SE, of Roraima to east of Pará there is less rain, with annual totals in the order of 1,500 to 1,700 mm.

The rainy period of the area occurs in summer & autumn, the exception being Roraima and of the north part of Amazonas, where the maximum pluviometric indexes occurs in winter, due to influence of the climatic conditions of the Northern Hemisphere.

5) Middle-West Region

Three systems of circulation occur in the Middle-West region: the system of disturbed currents of the West, represented by unstable events during the summer; system of disturbed currents of the North, represented by CIT, that produces rains in the summer, autumn and winter in the north of the region; and the system of disturbed currents of the South, represented by the polar fronts, invading the area in the winter with great frequency, producing rains of one to three days duration. In the north and south extremes of the region, the annual medium temperature is 22 °C and in the Chapadas it varies from 20 to 22 °C. In the spring and summer, temperatures are

commonly high, the average of the hottest month varying from 24 to 26 °C. The average of the maximum temperatures of September (hotter month) oscillates between 30 and 36 °C.

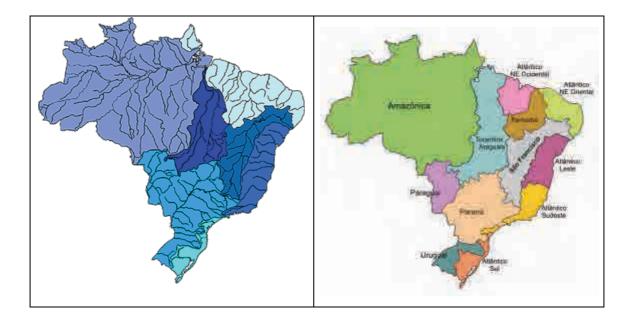
Winter is an interesting season, low temperatures occurring quite frequently. This is caused by the polar invasion, that produces the cold weather which is very common at this time of the year. The medium temperature of the coldest month oscillates between 15 and 24 °C, and the average of the minimum temperatures ranges from 8 to 18 °C. Minimum temperatures are sometimes negative.

The characterization of the pluviosity of the region is almost exclusively due to the system of atmospheric circulation. The annual medium pluviosity varies from 2,000 to 3,000 mm in the north of Mato Grosso, to 1,250 mm in the Pantanal mato-grossense.

In spite of this inequality, the region is well provided with rain. Its seasonality is typically tropical, with maximum in the summer and minimum in the winter. More than 70 % of the total rain that is accumulated during the year falls from November to March. The winter is excessively dry, because the rains are very rare.

1.1.4 River System

Figure 1.1.6 shows the major river system and major hydrographic basins in Brazil.



Nationwide River System	Hydrographic Basin System
(Source: Brazilian Cacti Project,	(Source: Wikipedia,
http://www.brcactaceae.org/hydrography.html)	http://en.wikipedia.org/wiki/File:Brasil_Bacias_hid
	rograficas.svg)

Figure 1.1.6 River System and Hydrographic Basins of Brazil

Brazil has one of the world's most extensive river systems, with eight major drainage basins, all of which drain into the Atlantic Ocean. Two of these basins—the Amazon and Tocantins-Araguaia account for more than half the total drainage area. The largest river system in Brazil is the Amazon, which originates in the Andes and receives tributaries from a basin that covers 45.7 % of the country, principally the north and west. The main Amazon River system is the Amazonas-Solimões-Ucayali axis (the 6,762 km-long Ucayali is a Peruvian tributary), flowing from west to east. Through the Amazon Basin flows one-fifth of the world's fresh water. A total of 3,615 km of the Amazon are in Brazilian territory. Over this distance, the waters decline only about 100 m. The major tributaries on the southern side are, from west to east, the Javari, Juruá, Purus (all three of which flow into the western section of the Amazon called the Solimões), Madeira, Tapajós, Xingu, and Tocantins. On the northern side, the largest tributaries are the Branco, Japurá, Jari, and Rio Negro. The above-mentioned tributaries carry more water than the Mississippi (its discharge is less than one-tenth that of the Amazon). The Amazon and some of its tributaries, called "white" rivers, bear rich sediments and hydro-biological elements. The black-white and clear rivers—such as the Negro, Tapajós, and Xingu—have clear (greenish) or dark water with few nutrients and little sediment.

The major river system in the Northeast is the Rio São Francisco, which flows 1,609 km northeast from the south-central region. Its basin covers 7.6 % of the national territory. Only 277 km of the lower river are navigable for oceangoing ships. The Paraná system covers 14.5 % of the country. The Paraná flows south among the Río de la Plata Basin, reaching the Atlantic between Argentina and Uruguay. The headwaters of the Paraguai, the Paraná's major eastern tributary, constitute the Pantanal, the largest contiguous wetlands in the world, covering as much as 230,000 km².

Below their descent from the highlands, many of the tributaries of the Amazon are navigable. Upstream, they generally have rapids or waterfalls, and boats and barges also must face sandbars, trees, and other obstacles. Nevertheless, the Amazon is navigable by oceangoing vessels as far as 3,885 km upstream, reaching Iquitos in Peru. The Amazon River system was the principal means of access until new roads became more important. Hydroelectric projects are Itaipu, in Paraná, with 12,600 MW; Tucuruí, in Pará, with 7,746 MW; and Paulo Afonso, in Bahia, with 3,986 MW.

According to organs of the Brazilian government there are 12 major hydrographic regions in Brazil. Seven of these are river basins named after their main rivers; the other five are groupings

of various river basins in areas which have no dominant river.

Seven (7) Hydrographic Regions named after their dominant rivers are (i) Amazonas, (ii) Paraguai, (iii) Paraná, (iv) Parnaíba, (v) São Francisco, (vi) Tocantins and (vii) Uruguai. Table 1.1.3 summarizes the major hydrological information of those major river basins.

Table 1.1.3 Summary of Hydrological Information of major River Basin

Name	Basin Area (km²)	Discharge (m³/sec)		
TVanic	Basin Area (kiii)	Average	Max	Min
1. Amazonas	6,915,000	N/A	N/A	N/A
2. Paraguai	365,592	2,700	N/A	N/A
3. Paraná	2,582,672	17,290	65,000	2,450
4. Parnaíba	344,112	N/A	N/A	N/A
5. São Francisco	641,000	2,943	11,718	1,480
6. Tocantins	More than 800,000	13,598	N/A	N/A
7. Uruguai.	365,000	5,500	N/A	N/A

(Source: Wikipedia, http://en.wikipedia.org/wiki/Geography_of_Brazil)

Besides, there are five (5) coastal Hydrographic Regions based on regional groupings of minor river basins (listed from north to south) such as (i) Atlântico Nordeste Ocidental (Western North-east Atlantic), (ii) Atlântico Nordeste Oriental (Eastern North-east Atlantic), (iii) Atlântico Leste (Eastern Atlantic), (iv) Atlântico Sudeste (South-east Atlantic) and (v) Atlântico Sul (South Atlantic).

The Amazon River is the widest and second longest river (behind the Nile) in the world. This huge river drains the greater part of the world's rainforests. Another major river, the Paraná, has its source in Brazil. It forms the border of Paraguay and Argentina, then winds its way through Argentina and into the Atlantic Ocean, along the southern coast of Uruguay.

1.1.5 Land Use

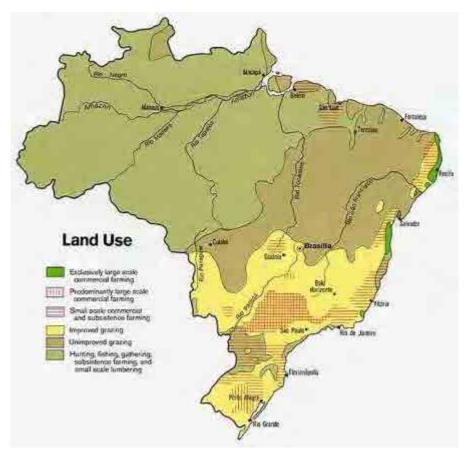


Figure 1.1.7 Land Use of Brazil

(Source: University of Texas Library, http://www.lib.utexas.edu/maps/brazil.html)

(1) General View

From the viewpoint of relations between land use and global changes, Brazil has an important position on the world stage. Firstly, its territorial and demographic dimensions place it among the 10 largest nations in the world. Secondly, the existence of its immense, and as yet largely untouched, rainforest, place Brazil in the front line in terms of the planet's remaining natural vegetation cover. Thirdly, the extreme inequality of income distribution within the country, in both social and territorial terms, limits the options for social improvement and contributes towards the great mobility of Brazil's population, one of the main factors in determining the

speed and size of land use changes.

Accelerated industrialization and territorial expansion processes implemented by the Brazilian Government was engaged in the beginning of the 70's, by means of the 1st and 2nd National Development Plans. These were decisive in redesigning the spatial distribution of the Brazilian productive base, and speeding up the use of resources in the Amazon frontier.

In historic terms, the expansion of farming and cattle raising has been responsible for the main alterations in land use and cover in Brazil. The new frontiers, already well described in Brazilian scientific publications, constitute the main cause for the increase of cleared areas for agricultural and cattle raising. The advance of agriculture over areas of natural forest, together with extensive cattle raising on open lands and savannas, lead to the cutting down and burning of natural forests. These have been the principal causes for the loss of natural vegetation cover and for the large-scale changes in land use in Brazil over the last 50 years

(2) Amazon Forest Area

Ecosystems in the Amazon take up a surface area of 4,005,082 km². Water and native vegetation still cover approximately 92 % of the area. Land use and occupation in the Amazon concentrate on plant and animal extraction - including and dominated by: the lumber industry, cattle raising, and subsistence farming, as well as the cultivation of some tree and bush species with medium-to-long life cycles. Continued use of traditional exploitation methods will lead to more deforestation, leaving the region's main environmental problem still unresolved. The large ranch owners consider deforestation and cattle raising to be activities that confirm their legitimate right over the properties; for the smallholders, cattle raising is a fast way to increase the value of the land, as it is unable to recycle nutrients after the first few years of cultivation. The substitution of woodland by pasture leads to a build-up of phosphorous in the soil, with more erosion – as water runs off pastures 10 times faster than in the forest – leading to more intense flooding during the rainy season and less water for the rivers during the dry season.

The practice of lumbering opens up routes for land settlement and representing an increased risk from fires set to renew pastures, or for other agricultural practices. This new phenomenon is introducing fire as part of the evolution of the landscape in populated areas of the Amazon. The dry, recently cleared areas, around the forest are burned every year for planting and most of the heat sources are found there. However, this dryness, resulting from the clearing of the native forest, brings the possibility for disastrous fires such as the one in Roraima in 1998. The introduction of grain crops to the Amazon is a new thing for a region that has always lived from the extraction of the forest's wealth, and more recently from large-scale cattle raising. The leading culture for this new model is the soy bean, which, together with rice and corn, have

conquered the savannas of the Amazon region and now advance to the north along roads cut through the forest. The largest grain plantations are in the State of Mato Grosso, mainly on the Parecis Plain, where the weather and topography are especially favorable for mechanized farming. The high productivity obtained in the Pre-Amazon region are unlikely to be repeated at competitive costs in the forested areas, due to the high rainfall, which facilitates the proliferation of insects and fungus, and to the high acidity of the leached forest soil.

(3) Savannas (Cerrados)

The savannas cover some 2.04 million km² (about 23% of the area of Brazil), occupying a large part of the country's central region, bordering on all the other main ecosystems in Brazil. The savannas covers most of the territory of the states of Goiás, Tocantins, Mato Grosso and Mato Grosso do Sul, and also the Federal District. The savannas are among the largest land areas still available in the world, and could in the short term, increase grain production and supply grazing land to meet present demand. The region has thus become a new frontier in agricultural terms, with high settlement growth rates. This intensive exploitation of the savannas has led to various types of environmental problems. The rapid expansion of farming and cattle raising that is happening in the region is causing large-scale environmental damage: erosion and compacting of soil, chemical contamination of waterways and the 'biota' by the use of pest controls, unsuitable irrigation techniques, and cut-and-burn clearing. The use of technologies designed for different environments, such as the irrigation of the so-called highlands using intensive, pivoted irrigation systems, require water volumes which the savannas is, at the moment at least, unable to supply. Questions are being asked about the use of this type of equipment on the savannas, as when used improperly, they can cause the water table to go down significantly and generate serious future water supply problems, including for human consumption. The pivot method is also not very efficient as it causes high water losses due to dispersion. The cut-and-burn clearing method is used, mainly, to create large areas of pasture for cattle. During the preparation of the pastures, which are a single crop, various instruments are used intensively, such as soil correction, fertilizers, herbicides, pesticides and a lot of heavy machinery. The immediate effect is to make the ecosystem poorer through the loss of native species of vegetation, creating the conditions for the proliferation of pests, insects and weeds.

Technological innovations incorporated into the production systems for soy beans, corn and rice have led to new forms of production in the savannas. The value of the crops has been enhanced by the industrialized production of chaff, feed-cake and vegetable oil, which enter the economy, leading cattlemen to modernize their practices through the use of balanced feeds, made from chaff and grain residuals, which also effect pig and chicken farming. Production of soy beans in the savannas rose, by the end of the 90's, to about 4 % of total production in Brazil, with higher than national average productivity rates, especially in Mato Grosso. Corn production is also

important in the region, with productivity rates 47 % above national average (3,476 kg/ha versus 2,362 kg/ha), as seen in Goiás State. Cotton and rice are also important crops in the region, being responsible for up to 23 % of the total produced in the country, with productivity higher than the national average.

Cattle raising in the region has also experienced improvements due to new technology, increasing its participation in national production. In 1970, the Center-West had17.2 million head of cattle, growing to 39.6 million in head in 1985, and to 52.2 million in 1993, or 34 % of all the cattle in Brazil in that year. Cattle raising is to be found all over the region, although increased numbers and more intensive methods are more frequently seen in the eastern part of the region, especially in Mato Grosso do Sul, along the border with São Paulo, and in the central part of Goiás.

(4) Caatingas

The Caatingas or the deciduous forests of the semi-arid Northeast cover an area of 939,391 km². Approximately 60 % of that area is covered by native vegetation that has been altered to some extents. This degradation - which must affect more than 50 % of the natural' areas - continues to be caused by the production of firewood; by overgrazing; and sometimes by fire. It should be noted that, as the herb cover disappears during the dry season – different to the savannas – fire isn't used to improve natural grassland. Man's use and occupation of land is mainly for farming, using short-cycle methods, and cattle raising. Medium and long-term methods are only used in a few locations and are not representative. Fruit and grain are produced in certain irrigated areas. Mining and the areas destined for regional infrastructure represent only a very small part of the region. The agriculture practiced in this part of the semi-arid was organized around the cattle cotton-food crop complex in vigor up to the middle of the 70's. Labor productivity has always been low, although the population that took their living from the activities of this complex, such as smallholders, residents and workers with no land title, managed to survive, making their living from cotton and food crops. Any disorganization of these activities, such as the drought of 1979-83, or the 'bicudo' pest that has attacked cotton plantations since 1980, and agriculture in the Northeast loses one of its main sources of income and employment, and on which those categories of rural workers depend. Modern agriculture, whilst expanding in the semi-arid region, has not yet attained sufficient volume or area, to be an option for the workers that are losing their source of income because of the gradual extinction of the activities of the cattle-cotton-food crop complex. The attempts to introduce higher production varieties of herb cotton, a single crop culture, haven't been successful. The cultivation of fruit, which has started to appear in the interior, around the few irrigation projects - public and private - are an alternative of great importance. It is, however, still restricted to small extensions of the irrigated lands along the humid valleys of the semi-arid region, and requires capital and a qualified workforce, both of which are in short supply among the workers from the areas of the cattle-cotton-food crop complex. Cattle raising, restricted, for technical reasons, to farms of at least 200 ha, but preferably with more than 500 ha, continues to be carried out using traditional methods.

Environmental degradation of the semi-arid region, has been happening for a long time, due mainly to the continued extensive cutting down of tree cover and the resulting soil erosion. This is the most visible sign, marks especially on the rocks, the semi-arid region having lost its capability to retain water in the soil or sub-soil. Consequently, the runoff of rainwater, year after year, feeds the process whereby the remaining fine layers of soil are swept away. The small streams and rivers used to run, during a few months of the year, with water from the water tables that were replenished during the rainy season. They no longer exist. A number of factors contribute to this degradation. Among them, the high population density of the semi-arid Northeast, resulting in the occupation of large areas by subsistence farming, with even greater areas being used to raise cattle, sheep and goats, with no preoccupation with the need to conserve of soil and water. This shows clearly the lack of any sustainability. The situation tends to get even worse as the local population continue to ignore the need to conserve soil and water in the Drought Poygonal (Polígono das Secas).

(5) Pantanal

The Pantanal region takes up an area of 165,000 km². Native vegetation covers more than 97 % of the area, already partly altered by cattle raising and improvements made to the native pastures. Land use and occupation is almost exclusively related to cattle raising. At a secondary level, fishing and the (not always legal) capture of wild animals, tourism and leisure activities, and mining, which is found only at Corumbá. The productive system in the Pantanal works with those in adjoining areas. As a counterpart, the use and occupation of these adjoining lands have a negative effect on the ecosystems of the Pantanal.

The Pantanal has certain peculiarities that characterize it as a specific sub-region, and is considered to be the largest wet plain on the planet. The sub-region extrapolates Brazil's frontiers, and occupies an area equivalent to 165,000 km², of which 130,000 km² are in Mato Grosso do Sul and 35,000 km² in Mato Grosso. It is one of the largest natural hatcheries in the world, with its own geomorphological formation, and has the largest fauna of the Americas. Its large expanses of water are a traditional fishing area, attracting sportsmen from around the world.

Economically, the region is a cattle area, using intensive predatory methods. Although this activity has, in a way, become adapted to the environment, the indiscriminate increase in the

number of cattle and their constant movements have unbalanced the regional ecosystem, based on alternating floods and dry periods.

(6) Atlantic Forest (Mata Atântica)

The agricultural exploitation of the group of ecosystems that make up the Atlantic Forest intensified at the start of the last decades of the 1700s and beginning of the 20th.C. During this period, seeds were planted on the ashes of the recently burned forest, dispensing with the need to plough the soil, to weed, or to use organic or chemical fertilizers. This soil gave a very good return for about two or three years, after which time the area was left fallow. A secondary natural growth would then cover this land and some years later, it too would be burned to give way to crops for two or three more years.

However, the increasing population and the resulting demand for crops, forced a reduction in the 10 year period land was left fallow, with the result that the forest didn't have time to grow back. The limits of this type of productive system, where the recovery of the soil depended, fundamentally, on land rotation, became more and more evident. At the end of the 1960's, the use of chemical fertilizers rejuvenated the tired soil, and later, with the arrival of the Green Revolution, a homogeneous group of new technological procedures were put in use. This substitution at the technical base of farming and cattle raising, permitted the implementation of large-scale, single-crop systems, starting a period of radical change in the South and Southeast of Brazil. This modernization process was also helped by the existence of subsidized credit for agriculture, and by very large investments by the public sector in research and teaching in the field of agronomy. Improvements in international agricultural processes also helped, as did the so-called 'miracle' period for the Brazilian economy. During the initial years, the new technologies resulted in surprising increases in yields for almost all crop types. However, the euphoria of the large yields was undermined by the social and environmental problems that, even today, are evident in the agriculture practiced in these ecosystems.

Another characteristic of the end of the 20th century is the advance of agribusiness in almost all the South - Southeast regional complex. The production of soy beans; sugar cane; oranges; coffee; corn; and fowls and pigs, are among the most important examples of this process: not only because of changes they brought to the farming community, but also because of their very strong dependence on chemical, mechanical and genetic industrialized inputs, and the fact that most of the production is now destined for industrialization. These same 'giants' of the agribusiness are also major 'consumers' of the natural resources of the ecosystems of these regions, and in some cases, are responsible for environmental depletion on a similar scale.

(7) Coastal Zone

The original vegetation cover, mainly mangroves and the primitive vegetation found on sand shelves, was seriously affected by human occupation, especially when you consider that 45 % of the Brazilian population lives, works and plays in the Coastal Zone. The association of power generating plant with specialized terminals and industrial plants, increases significantly the risk of accidents, as well as the long-term exposure of the population to toxic substances in the water and air.

The concentration of industries along the Coastal Zone, where you find oil and natural gas fields, terminals and pipelines, thermoelectric and nuclear power generators, and large concentrations of chemical and other plant. Accidents involving oil spills and leakage of gas and toxic effluent are recurrent events along various stretches of the Brazilian coastline, with serious results, affecting people's lives at every level.

1.1.6 Demographics

According to the 2010 revision of the World Population Prospects the total population was 194,946,000 in 2010, compared to only 53,975,000 in 1950. The proportion of children below the age of 15 in 2010 was 25.5 %, 67.5 % was between 15 and 65 years of age, while 7 % was 65 years or older. Figure 1.1.9 shows the ethnic and minority composition of Brazil. As shown in this figure, white people shares 48 % of entire population, and then, Mulato (43 %), Afro-descendants (8 %), Asian (1 %) and indigenous groups (0.4 %).

Table 1.1.4 Demographic Composition of Brazil

		-8 -1 I		
Year	Total population	Population aged	Population aged 15–	Population aged
	(x 1000)	0–14 (%)	64 (%)	65+ (%)
1950	53,975	41.6	55.5	3.0
1960	62,880	42.0	55.0	3.0
1965	84,389	43.6	53.0	3.4
1970	96,078	42.3	54.2	3.5
1975	108,224	40.2	56.0	3.8
1980	121,712	38.0	58.0	4.0
1985	136,247	36.9	59.0	4.1
1990	149,650	35.2	60.4	4.5
1995	161,848	32.4	62.6	5.0
2000	174,425	29.5	64.9	5.6
2005	185,987	27.5	66.2	6.3
2010	194,946	25.5	67.5	7.0

(Source: United Nation, Department of Economics and Social Affair,

http://esa.un.org/unpd/wpp/index.htm)

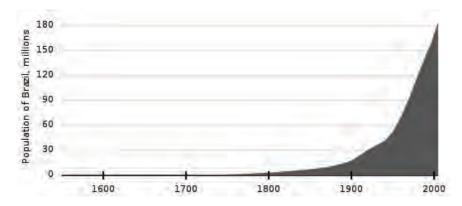


Figure 1.1.8 Entire Population Trend of Brazil (1550 – 2005)

(Source: Wikimedia, http://upload.wikimedia.org/wikipedia/commons/7/75/Population_of_brazil.svg)

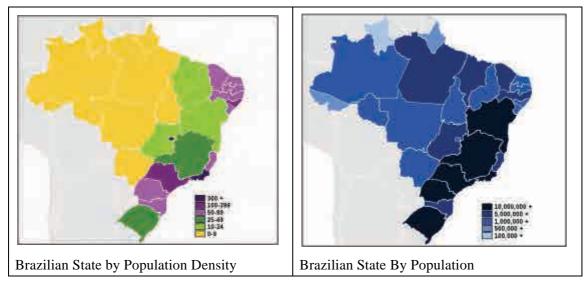


Figure 1.1.9 Brazilian Population Statistics

(Source: Wikipedia, http://en.wikipedia.org/wiki/Demographics_of_Brazil#cite_note-WPP_2010-5)

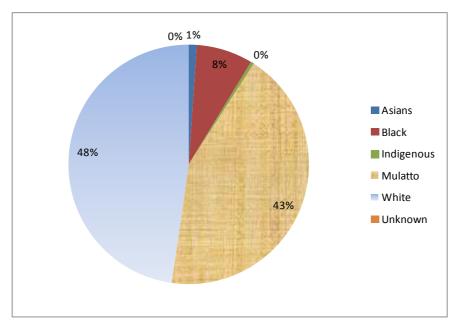


Figure 1.1.10 Percentage of Racial and/or Ethnic Groups

Note: total population is of 1,90,755,799 (see Table 7.4.1 of Chapter 7 for more detailed information)

Source: UN Statistics Division, 2011

1.2 Legal and Political Systems: Environmental and Social Considerations

1.2.1 Calendar and Time Zone

As mentioned earlier, there are three (3) time zones in Brazil such as (i) BRT - Brasilia (Standard) Time / BRST - Brasilia Summer Time, (ii) AMT - Amazon (Standard) Time / AMST - Amazon Summer Time, and (iii) FNT - Fernando de Noronha Archipelago Time.

The time, shown in most part of Brazil is Brasilia Time (BRT) which is 3 hours behind Greenwich Mean Time (GMT-3). Basically, the time in Brazil is determined at the state level.

1.2.2 Cabinet of Brazil1

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The Cabinet of Brazil is composed of the Ministers of State and senior advisors of the executive branch of the federal government of Brazil. Cabinet officers are appointed and dismissed by the President. There are currently twenty-four (24) Ministries of State and fourteen (14) other cabinet-level offices. Among of them, Ministry of Environment (Portuguese: Ministério do Meio Ambiente, MMA) is a cabinet-level federal ministry in Brazil. Major roles and activities of MMA are described in Section 1.2.5 of this chapter.

 $^{^1\ \} Wikipedia, http://en.wikipedia.org/wiki/Cabinet_of_Brazil$

1.2.3 Administrative Division

The Federative Republic of Brazil is a union of twenty-seven (27) Federative Units (Portuguese: Unidades Federativas (UF)): twenty-six (26) states (estados; singular estado) and one (1) federal district (distrito federal), where the federal capital, Brasília, is located. The states are generally based on historical, conventional borders which have developed over time. The federal district is not a state in its own right, but shares some characteristics of a state as well as some of a municipality.

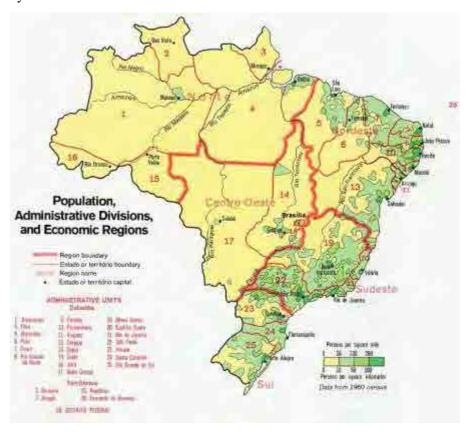


Figure 1.2.1 Administrative Division of Brazil

(Source: CIA, https://www.cia.gov/library/publications/the-world-factbook/geos/br.html)

Basically, entire country is classified into following five (5) regions, i.e., (i) North Region, (ii) North-East Region, (iii) Central West Region, (iv) South-West Region, and (v) South Region (see Table 1.2.1).

Table 1.2.1 Regional Composition

Region	Number of states	States
North	7	Acre, Amapá, Amazonas, Pará, Rondônia, Roraima and Tocantins.

North-East	9	Maranhão, Piauí, Ceará, Rio Grande do Norte, Paraíba, Pernambuco, Alagoas, Sergipe and Bahia,	
Central West	3(4)	Goiás, Mato Grosso, Mato Grosso do Sul; along with Distrito Federal (Federal District	
South East	4	Espírito Santo, Minas Gerais, Rio de Janeiro and São Paulo.	
South	3	Paraná, Santa Catarina and Rio Grande do Sul	

Note: Number shown in parenthesis indicates the total state number including DF.

Source: Wikipedia,

http://en.wikipedia.org/wiki/North_Region,_Brazil http://en.wikipedia.org/wiki/Northeast_Region,_Brazil http://en.wikipedia.org/wiki/Central-West_Region,_Brazil http://en.wikipedia.org/wiki/Southeast_Region,_Brazil http://en.wikipedia.org/wiki/South_Region,_Brazil

1.2.4 Fiver Year Development Plan

In 1954, then Brazilian, President Juscelino Kubitschek commissioned a five-year development plan in which the government set specific targets. His successor, President João Goulart, established a dedicated Ministry of Planning. Following spectacular success, Goulart transformed the plan into a three-year plan, which was then partially undermined by political upheaval in Brazil. Military regimes thereafter interrupted Brazil's planning effort.

✓ PAC (Programa de Aceleração do Crescimento, Growth Acceleration Program)

The Programa de Aceleração do Crescimento (Growth Acceleration Program), better known as PAC, is a major infrastructure program of the Federal government of Brazil. The program was launched on January 28, 2007, by the Lula da Silva administration, consisting of a set of economic policies and investment projects with the objective of accelerating economic growth in Brazil, i.e., the increase of investment in infrastructure and provision of tax incentives for faster and more robust economic growth. PAC is a strategic investment program that combines management initiatives and public works and forecasts investments by the Federal government, state enterprises and the private sector in construction, sanitation, energy, transport and logistics. In its first phase, launched in 2007, the program called for investments of US\$ 349 billion (R\$ 638 billion), of which 63.3% has been applied for the 2007-2010 quadriennium.

✓ PAC 2

The Rousseff administration has continued the program under the name PAC 2. PAC 2 includes new investment projects for the periods 2011 to 2014 and post-2014, as well as projects initiated during PAC 1 with activities that will conclude after 2010. For the period following 2014, the estimated investment is US\$ 346.4 billion (R\$ 631.6 billion). The two periods combined reach an amount of US\$ 872.3 billion (R\$ 1.59 trillion, see Table 1.2.2).

Similar to the first phase of the program, PAC 2 focuses on investments in the areas of logistics, energy and social development, organized under following six major initiatives: (i) Better Cities (urban infrastructure), (ii) Bringing Citizenship to the Community (safety and social inclusion), (iii) My House, My Life (housing), (iv) Water and Light for All (sanitation and access to electricity), (v) Energy (renewable energy, oil and gas); and (vi) Transportation (highways, railways, airports). Table 1.2.3 summarizes objective and focused areas of each initiative.

Table 1.2.2 Breakdown of PAC 2

PAC 2 INVESTMENTS in US\$ billion (R\$ billion)				
PAC 2 INITIATIVES	2011-2014	POST-2014	TOTAL	
BETTER CITY	31.3 (57.1)	-	31.3 (57.1)	
BRINGING CITIZENSHIP TO THE COMMUNITY	12.6 (23.0)	19	12.6 (23.0)	
HOUSING	152.5 (278.2)	*	152.5 (278.2)	
WATER AND LIGHT FOR ALL	16.6 (30.6)	-4	16.6 (30.6)	
TRANSPORTATION	57.3 (104.5)	2.4 (4.5)	59.7 (109.0)	
ENERGY	255.3 (465.5)	343.9 (627.1)	599.2 (1,092.6)	
TOTAL	526.0 (958.9)	346.4 (631.6)	872,3 (1,590.5)	

Source: World Bank,

http://blogs.worldbank.org/growth/brazil-announces-phase-two-growth-acceleration-program

Table 1.2.3 Objective and Focused Areas of each Initiatives (PAC 2)

	Initiative	Objective	Area of Focus
1	BETTER CITY	Tackle the major challenges facing large urban areas to improve quality of life.	Sanitation, crime prevention in high-risk areas, urban mobility, paving.
2	CITIZEN COMMUNITY	Increase the availability of State services in poorer districts.	Emergency care units, basic health clinics, daycare and pre-school centers, school sports facilities, community police stations.
3	MY HOUSE, MY LIFE	Reduce the housing deficit, stimulate the civil construction sector, and generate jobs and income.	"My House, My Life" program, SBPE financing (Brazilian savings and loans system), urbanization of informal settlements.
4	WATER AND LIGHT FOR ALL	Provide general access to water and electricity.	"Light for All" program, water supply in urban areas, water resources.
5	TRANSPORTATION	Consolidate, expand and integrate logistics network to ensure quality and safety.	Highways, railways, ports, waterways, airports, local roads
6	ENERGY	Secure reliable supply of energy through a mix of clean, renewable sources; expand production of oil in pre-salt region.	Electricity, oil and natural gas, shipbuilding, renewable fuels, energy efficiency, mineral research.

In 2012, the Government launched a range of initiatives to reduce energy costs, restructure oil royalty payments, strengthen investment in infrastructure through foreign participation, and reform the sub-national value-added tax.

Brazil experiences extreme regional differences, especially in social indicators such as health, infant mortality and nutrition. The richer South and Southeast regions enjoy much better indicators than the poorer North and Northeast.

Poverty (people living with US\$ 2.0 per day) has fallen markedly, from 21 % of the population in 2003 to 11 % in 2009. Extreme poverty (people living with US\$1.25 per day) also dropped dramatically, from 10 % in 2004 to 2.2 % in 2009.

Between 2001 and 2009, the income growth rate of the poorest 10 % of the population was 7 % per year, while that of the richest 10 % was 1.7 %. This helped decrease income inequality (measured by the Gini index) to reach a 50-year low of 0.519 in 2011.

Despite these achievements, inequality remains at relatively high levels for a middle income country. After having reached universal coverage in primary education, Brazil is now struggling to improve the quality and outcome of the system, especially at the basic and secondary levels.

There has been enormous progress in decreasing the deforestation of the rain forest and other sensitive biomes, but the country faces important development challenges in combining the benefits of agricultural growth, environmental protection and the sustainable development.

As one of the leading nations on climate negotiations, Brazil has committed voluntarily to reducing its greenhouse gas emissions by between 36.1 % and 38.9 % until 2020.

1.2.5 Relevant Organizations

(1) SISNAMA (National System of Environment).

By the Law No.6.938 of 1981, the National Council of Environment (CONAMA) and National System of Environment (SISNAMA) were established. Figure 1.2.2 shows the organization chart of SISNAMA. Main objectives of SISNAMA are as follows: (1) supporting environmental protection activities and those relevant technology registration policies therein, (2) insuring the right of every individuals to enjoy healthy environment, and (3) protecting the natural heritage and the sovereignty of the nation. The Ministry of Urban Development and Environment was established by the Law No. 91.145 of 1985, and re-organized as the Ministry of Environment in 1999.

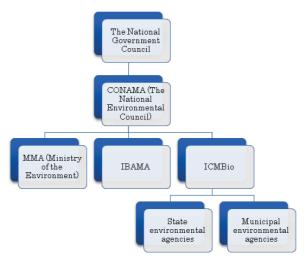


Figure 1.2.2 Organization Chart of SISNAMA.

(2) Organizations on National Level

Table 1.2.4 summarizes administrative functions of major environmental organizations on the national level. Figure 1.2.3 shows the organization diagram of MMA.

Table 1.2.4 Administrative Function of Major Environmental Organizations

Organization	Functions
1. Ministry of Environment (MMA)	The supreme organization of environmental administration mainly engaged in establishment of environmental policy on national level. Mainly, the Ministry consists of following five bureaus such as (i) Environment of Human Society, (ii Bio-Diversity and Forest, (iii) Water Resources, (iv) Sustainable Development, and (v) Development of Amazon Region.
1-1 CONAMA (National Environmental Board)	One of the MMA's organizations engaged in environmental administration.
1-2 CONAMAZ (National Council of Amazon Region)	One of MMA's organizations engaged in biological, social and ecological investigations in the Amazon Region.
1-3 National Council of Water Resources	One of MMA's organizations engaged in water resources development and conservation of water resources.
1-4 National Committee of Environmental Fund	One of MMA's organization engaged in the administration of environmental protection fund.
1-5 IBAMA (Brazilian Institute of Environment and Renewable Natural Resources)	The supreme organization, belonging to MMA, mainly engaged in the implementation of the environmental protection and pollution control activity within the current environmental legal system on national level.
1-6 ICMBio (Instituto Chico Mendes de Conservação da Biodiversidade)	Mainly Responsible for the analysis and procedures for requests and concession of Authorization for Environmental Licensing to activities or enterprises which affect federal protected areas, its buffer zones or surroundings

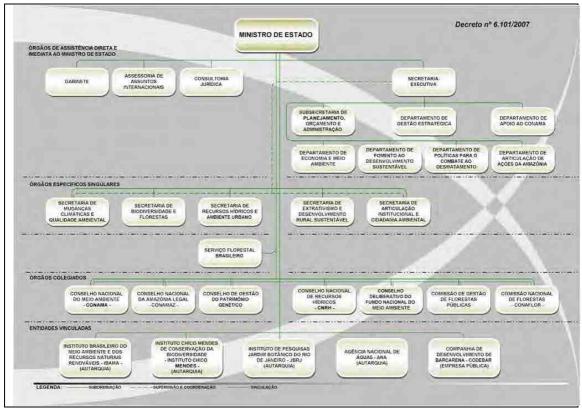


Figure 1.2.3 Organization Diagram of MMA

Source: MMA, http://www.mma.gov.br/o-ministerio/organograma

Table 1.2.5 summarizes other governmental agencies involved in the federal process of the environmental licensing in Brazil

Table 1.2.5 Administrative Function of Major Organizations involved with Environmental Licensing in Brazil

Organization	Functions
FUNAI (Fundação Nacional do Índio)	Mainly responsible for the analysis and evaluation of impacts caused by activity in lands which belong to natives/indigenous communities, as well as appreciation of adequate proposals with measures to control and mitigate those impacts.
2. FCP (Fundação Cultural Palmares):	Mainly responsible for the analysis and evaluation of impacts caused by activity in lands which belong to escaped slave communities, as well as appreciation of adequate proposals with measures to control and mitigate those impacts.
3. Ministry of Culture	The supreme organization mainly engaged in the implementation of the conservation of historical/architectural and cultural Heritage on national level. Some institute of this ministry, in particular, IPHAN (National Institute of Historical/Architectural and Cultural Heritage) performs archaeological/historical and cultural research, engage in conservation works, and conduct other relevant activities.
4. Ministry of Health (MS, Ministério da Saúde)	Mainly responsible for the analysis, evaluation and recommendation concerning the impacts and their influence factor to the occurrence of malaria cases, if the activity is located in endemic areas of malaria.
5. ANA (Agência Nacional de Águas) Determines and grants an authorization for use of water ac surface distribution and mediate its multiple uses (water for irrigation, industry demands etc).	

(3) Organization on Regional Level

In Brazil, the process of decentralization including the environmental licensing is on-going, and each state has its own licensing agency and processes can have specific interpretations based on local peculiarities. Basically, no discrimination within the importance of environmental EIA/RIMA ruling, made by either of municipality, state and federal exist. For instance, IBAMA always respects State decision and vice versa, and does not intervene the ruling made by others one another.

Table 1.2.6 presents the environmental agencies of each state in Brazil and Figure 1.2.4 shows the political map of Brazil. Table 1.2.7 summarizes major index such as state capital, area and population of each state in Brazil.

Table 1.2.6 Environmental Agencies of Each State in Brazil

14	Table 1.2.0 Environmental Agencies of Each State in Brazil		
State A	bbreviation	Agency Name	
Acre (AC) Amazonas (AM) Sustentável	SEIAM SDS	Sistema Estadual de Informações Ambientais Secretaria de Estado de Meio Ambiente e Desenvolvimento	
	SEDAM S	Fundação do Meio Ambiente e Recursos Hídricos Secretaria de Desenvolvimento Ambiental Secretaria de Estado de Meio Ambiente*1	
Amapá (AP) Mato Grosso (MT) Mato Grosso do Sul Mato Grosso do Sul	SEMA/AP SEMA/MT (MS) SEMAC	Secretaria de Estado do Meio Ambiente Secretaria de Estado do Meio Ambiente Secretaria de Estado de Meio Ambiente e Recursos Hídricos do	
Maranhão (MA) Tocantins (TO)	SEMA/MA SEPLAM	Secretaria de Estado de Meio Ambiente e Recursos Naturais Secretaria do Planejamento e Meio Ambiente	
Goiás (GO) Distrito Federal (DF) Minas Gerais (MG)			
sustentável São Paulo (SP) Paraná (PR)	CETESB SEMA/PR	Companhia de Tecnologia e Saneamento Ambiental Secretaria de Estado do Meio Ambiente e Recursos Hídricos	
Santa Catarina (SC) Rio Grande do Sul (R Rio de Janeiro (RJ) Urbano	FATMA RS) SEMA/R SEMAD		
Espírito Santo (ES) Piauí (PI)	IEMA SEMAR	Instituto Estadual de Meio Ambiente e Recursos Hídricos Secretaria de Meio Ambiente e Recursos Naturais	
Ceará (CE) Rio Grande do Norte Paraíba (PB) Pernambuco (PE) Alagoas (AL) Naturais	SUDEM	Instituto de Desenvolvimento Econômico e Meio Ambiente Superintendência de Administração do Meio Ambiente Secretaria de Ciência, Tecnologia e Meio Ambiente	
Sergipe (SE) Bahia (BA)	SEMA/SE SEMA/BA	Secretaria do Meio Ambiente Secretaria de Meio Ambiente e Recursos Hídricos	

^{*1:} former SECTAM



Figure 1.2.4 Political Map of Brazil

Source: BNDES, 2006

Table 1.2.7 Summary of States in Brazil

State (Abbreviation)	State Capital	Area (km²)	Population
Acre (AC)	Rio Branco	152,581.4	790,500
Amazonas (AM)	Manaus	1,570,745.7	3,859,700
Roraima (RR)	Boa Vista	224,299.0	497,000
Rondônia (RO)	Porto Velho	237,576.2	1,752,000
Pará (PA)	Belém	1,247,689.5	8,075,000
Amapá (AP)	Macapá	142,814.6	751,000
Mato Grosso (MT)	Cuiabá	903,357.9	3,225,000
Mato Grosso do Sul (MS)	Campo Grande	357,125.0	2,620,300
Maranhão (MA)	São Luís	331,983.3	6,851,000
Tocantins (TO)	Palmas	277,620.9	1,500,000
Goiás (GO)	Goiânia	340,086.7	6,524,000
Distrito Federal (DF)	Brasília	5,822.1	2,886,520
Minas Gerais (MG)	Belo Horizonte	586,528.3	20,736,000
São Paulo (SP)	São Paulo	248,209.4	44,065,000
Paraná (PR)	Curitiba	199,314.9	11,084,000
Santa Catarina (SC)	Florianópolis	95,346.2	6,668,250
Rio Grande do Sul (RS)	Porto Alegre	281,748.5	11,352,000
Rio de Janeiro (RJ)	Rio de Janeiro	43,696.1	16,385,000
Espírito Santo (ES)	Vitória	46,077.5	3,511,672
Piauí (PI)	Teresina	251,529.2	3,119,015
Ceará (CE)	Fortaleza	148,825.6	8,448,055
Rio Grande do Norte (RN)	Natal	52,796.8	3,421,000
Paraíba (PB)	João Pessoa	56,439.8	3,945,000
Pernambuco (PE)	Recife	98,311.6	9,279,000
Alagoas (AL)	Maceió	27,767.7	3,322,000
Sergipe (SE)	Aracaju	21,910.3	2,225,000
Bahia (BA)	Salvador	564,692.7	15,127,000

(Source: Wikipedia, http://en.wikipedia.org/wiki/States_of_Brazil)

1.3 Overview and Contact detail of Relevant Organizations

1.3.1 Governmental Organization and Research Institute

(1) Central Government

Table 1.3.1 summarizes major function of environmental agencies within the central government.

Table 1.3.1 Environmental Administration at Central Level

Organization	Contact Address
Ministry of Environment (Ministério do Meio Ambiente, MMA)	Esplanada dos Ministérios, Bloco B - 70068-900, Brasília - DF, Brazil Phone (61) 2028-2228 / 2028-2483 / 2028-2199 E-mail: sic@mma.gov.br
CONAMA (Conselho Nacional do Meio Ambiente)	Departamento de Apoio ao Conselho Nacional do Meio Ambiente - DCONAMA Edifício Sede do Ministério do Meio Ambiente, Esplanada dos Ministérios - Bloco B, 9° andar, sala 950 70068-901 - Brasília/DF Phone: (61) 2028-2207 E-mail: conama@mma.gov.br
IBAMA	SCEN Trecho 2 - Ed. Sede - Cx. Postal n° 09566 - CEP 70818-900 - Brasília-DF Phone: (61)3316-1212 Website: http://servicos.ibama.gov.br
FUNAI (Fundação Nacional do Índio)	FUNAI - SBS Quadra 02 Lote 14 Ed. Cleto Meireles 70070-120 - Brasília/DF Phone: (61) 3247-6000 E-mail: sic@funai.gov.br, nesse Website: http://www.funai.gov.br
FCP (Fundação Cultural Palmares)	Secretária: Janaína Lima de Oliveira Phone: (61) 3424-0111 E-mail: carolina.nascimento@palmares.gov.br Website: http://www.palmares.gov.br
IPHAN (Instituto do Patrimônio Histórico e Artístico Nacional)	SEPS Quadra 713/913 Sul, Bloco D, Edificio IPHAN – 4° Andar CEP 70390-135 Brasilia DF Phone: (61)2024-5440 Website: http://portal.iphan.gov.br
MS (Ministério da Saúde)	Esplanada dos Ministérios Bloco G Brasilia-DF / CEP: 70058-900 Phone: (61) 3315-2425 Website: ttp://portalsaude.saude.gov.br
ICMBio (Instituto Chico Mendes de Conservação da Biodiversidade)	EQSW 103/104, Bloco "C", Complexo Administrativo - Setor Sudoeste CEP: 70.670-350 - Brasilia - DF Phone: (61) 3341-9101 Website: http://www.icmbio.gov.br

Organization	Contact Address
ANA (National Council of Water Resource)	Agência Nacional de Águas - ANA Setor Policial, área 5, Quadra 3, Blocos "B","L","M" e "T". Brasília-DF CEP:70610-200 Phone: (61) 2109-5400/(61) 2109-5252 E-mail:asint@ana.gov.br Website:

(2) Environmental Agencies at State Level

In Brazil, each state has its own environmental agency while abiding the federal laws. Table 1.3.2 summarizes the contact list of Brasilia, Amazonas, Para, Sao Paulo, Parana and Santa Catalina States, that are great concerns within this study.

Table 1.3.2 Environmental Agencies at six (6) states (Brasilia, Amazonas, Para, Parana, Sao Paulo and Santa Catarina)

Organization	Contact Address		
SDS (Amazonas)	Av. Mario Ypiranga Monteiro, 3280, Parque Dez Manaus Amazonas 69057-002 Phone: (92)3236-5740 Fax: (92) 3659-1821 Website:http://www.sds.am.gov.br		
SEMA (former-SECTAM) (Para)	Travessa Lomas Valentinas, 2717, CEP: 66095-770. Belém Phone: (91) 3184-3300 Website: http://www.sema.pa.gov.br		
SEMARH/DF (DF)	SEPN 511 - Bloco C - Ed. Bittar - CEP: 70.750-543, Brasilia Phone: 3214-5682 E-mail: ascommeioambiente@gmail.com Website: http://www.semarh.df.gov.br		
CETESB (Sao Paulo) Sede: Av. Prof. Frederico Hermann Jr., 345 – CEP 05459 São Paulo Phone: (11)3133-3000 Website: http://www.ctesb.gov.br			
Rua Desembargador Motta, 3384 - 80430-200 – Curitib Phone: (41) 3304-7700 Website: http://www.meioambiente.pr.gov.br			
FATMA (Santa Catalina)	Rua: Felipe Schmidt, 485 - Centro/Florianópolis/SC - CEP: 88010-001 Phone: (48) 3216-1700 Fax: (48) 3216-1753 Website: http://www.fatma.sc.gov.br		

1.3.2 Donors

Table 1.3.3 summarizes major international donors, working in Brazil.

Table 1.3.3 Major Donor Agencies in Brazil

Organization Summary Contact Address		
Organization	Summary	Contact Address
World Bank	Established in 1944. Headquartered in Washington, D.C. The World Bank is a vital source of financial and technical assistance to developing countries around the world and a unique partnership to reduce poverty and support development. The World Bank Group comprises following five institutions managed by their member countries, 1. The International Bank for Reconstruction and Development (IBRD) lends to governments of middle-income and creditworthy low-income countries 2. The International Development Association (IDA) provides interest-free loans—called credits— and grants to governments of the poorest countries. 3. The International Finance Corporation (IFC), a member of the World Bank Group, is the largest global development institution focused exclusively on the private sector. We help developing countries achieve sustainable growth by financing investment, mobilizing capital in international financial markets, and providing advisory services to businesses and governments. 4. The Multilateral Investment Guarantee Agency (MIGA) was created in 1988 as a member of the World Bank Group to promote foreign direct investment into developing countries to support economic growth, reduce poverty, and improve people's lives. MIGA fulfils this mandate by offering political risk insurance (guarantees) to investors and lenders. 5. The International Centre for Settlement of Investment Disputes (ICSID) provides international facilities for conciliation and arbitration of investment disputes.	Brazil Office SCN, Qd. 2, Lt. A, Ed. Corporate Financial Center, Cj. 702/703, Brasília, DF 70712-900 Phone: (61) 3329-1000 E-mail: pteklenburg@worldbank.org
IDB	Established in 1959. One of leading sources of development financing for Latin America and the Caribbean, with a strong commitment to achieve measurable results, increased integrity, transparency and accountability. Besides loans, IDB also provide grants, technical assistance and do research. IDB's shareholders are 48 member countries, including 26 Latin American and Caribbean borrowing members, who have a majority ownership of the IDB.	Representative :Daniela Carrera Marquis Address: Setor de Embaixadas NorteQuadra 802 Conjunto FLote 39 - Asa Norte Brasília, D.F. 70800-400, Brasil Mailing Address :Setor de Embaixadas NorteQuadra 802 Conjunto FLote 39 - Asa Norte Brasília, D.F. 70800-400, Brasil Phone: (61) 3317-4200 Fax:(61) 3321-3112 E-mail :BIDBrasil@iadb.org
UNDP	Mission is to support countries build and share solutions to achieve Poverty Reduction and the Millennium Development Goals, Democratic Governance, Crisis Prevention and Recovery, Environment and Energy for Sustainable Development. UNDP helps developing countries attract and use aid effectively. In all our activities, we encourage the protection of human rights, capacity development and the empowerment of women.	Casa das Nações Unidas no Brasil Complexo Sergio Vieira de Mello, Módulo I, Prédio Zilda Arns Setor de Embaixadas Norte, Quadra 802, Conjunto C, Lote 17 Brasilia CEP: 70800-400 Phone: (61) 3038-9300
UNEP	Established in 1972. UNEP acts as a catalyst, advocate, educator and facilitator to promote the wise use and sustainable development of the global environment. UNEP work encompasses i) Assessing global, regional and national environmental conditions and trends, ii) Developing international and national environmental instruments, and (iii) Strengthening institutions for the wise management of the environment.	Ms. Denise Hamð, Coordinator, UNEP brazil Office, EQSW 103/104 Lote 1 Bloco C, 1° andar, Setor Sudoeste, BrasÃ-lia - DF Brazil. Zip Code: 70670-350 Phone:+55 61 3038 9233

Organization	Summary	Contact Address
		Fax: +55 61 3038 9239 E-mail: pnuma.brasil@pnuma.org Website: www.unep.org.br Or www.pnuma.org.br
US-AID	U.S. foreign assistance has always had the twofold purpose of furthering America's interests while improving lives in the developing world. USAID carries out U.S. foreign policy by promoting broad-scale human progress at the same time it expands stable, free societies, creates markets and trade partners for the United States, and fosters good will abroad. Spending less than 1 percent of the total federal budget, USAID works in over 100 countries to: Promote broadly shared economic prosperity; Strengthen democracy and good governance; Protect human rights; Improve global health, Advance food security and agriculture Improve environmental sustainability; Further education; Help societies prevent and recover from conflicts; and Provide humanitarian assistance in the wake of natural and man-made disasters.	Mission Contact American Embassy/Brasilia Unit 3500 USAID APO AA Brazil Postal Code - M 34030 Phone: 55-61-3312-7248. Fax: 55-61-3312-7648 Ms Adriana Hayes Email: pahayes@usaid.gov

1.3.3 NGOs

It is estimated that Brazil has 276,000 NGOs. Of this total, approximately 29,000 receive federal funds. Of the 100,000 that work in the Amazon region, only 320 are registered with the Federal government, a fact which indicates the total lack of control over the actions and management of the private and public funds that finance these organizations. Table 1.3.4 summarizes major environmental and social NGO, registered in Brazil.

Table 1.3.4 Major Environmental and Social NGOs in Brazil

Organization	Mission	Contact Address
1. Fundação SOS Mata Atlântica (SOS Atlantic Forest Foundation)	Established in 1986. Mission is to promote the conservation of biological and cultural diversity of the Atlantic Forest Biome ecosystems and under its influence, encouraging actions for sustainable development as well as promote education and knowledge about Mata Atlantic, mobilizing, empowering and encouraging environmental citizenship. The organization develops environmental conservation projects, production data, mapping and monitoring of forest cover Biome, campaigns, strategies for action in the area of public policies, programs of environmental education and forest restoration, volunteering, sustainable development and protection and ecosystem management.	Avenida Paulista, 2073, Cj. 1318 Cd. Conjunto Nacional, Torre Horsa 1 - 13° andar Bela Vista, São Paulo - SP CEP: 01311-300 Phone: (11) 3262-4088 E-mail: info@sosma.org.br Website: http://www.sosma.org.br
2. Fundação Abrinq (ABRINQ Foundation)	Established in 1990. Mission is to work for the rights of children and adolescents are respected. The stage that the organization has achieved allowed from 2010, firmasse partnership with the largest and oldest NGO defending the rights of children in the world, Save the Children International. Projects that both develop in the area of education, health and protection in Brazil continue to be operated, but the program network was expanded nationwide, which is to give voice to issues involving the scenario of Brazilian	Av Santo Amaro, 1386 - 1° Andar Vila Nova Conceição 04506-001 - São Paulo SP Phone: (11) 3848-8799 or 0300 - 10 - 12345 E-mail: doador@fundabrinq.org.br Website: http://www.fundabrinq.org.br

Organization	Mission	Contact Address
	children to the world and will cause the number of children and adolescents leap from the current 260,000 to about one million per year in the coming years. Also from the partnership based on international methodologies, the organization began operating in the area of Emergency, and implemented activities ranging from immediate relief to action to reduce disaster risk.	
3. Instituto Akatu (Akatu Institute)	Founded on March 15, 2001 (International Consumer Day). Created with a mission to educate and mobilize society for conscious consumption, the Akatu Institute endeavors to make consumers aware of the importance of their consumption choices as an instrument to transform society and the environment. Since its foundation, Akatu has been working with opinion-makers — mass media, advertising campaigns, corporate partners, community leaders, volunteer groups, and educational leaders — so that they can disseminate the concept and practice of conscious consumption among the general public. The word "Akatu" comes from the Tupi language and means both "good seed" and a "better world". It conveys the idea that the better world is contained in each person's actions.	Avenida Brigadeiro Faria Lima, 2.601, 9° andar - Jardim Paulistano – São Paulo/SP 01451-001 Website: http://akatu.org.br
4. Instituto Ethos (Ethos Institute)	Founded in 1998, Its mission to mobilize, encourage, and help companies manage their business in a socially responsible way, making them partners in building a sustainable and fair society. Ethos prioritizes the strengthening of democratic institutions with improved regulations, and provides for the creation of social control mechanisms for the government and the market.	Rua Dr. Fernandes Coelho, 85 - 10° andar Pinheiros – São Paulo – SP – Brasil CEP: 05423-040 Phone: (11) 3897-2400 E-mail: atendimento@ethos.org.br Website: http://www3.ethos.org.br
5. Instituto de Pesquisa da Amazônia (IPAM: Amazon Environmental Research Institute)	Founded on May 29, 1995, in Belem (PA). Mission to come up with an innovative proposal at the time: engaging science and environmental activism in the Amazon region, building bases for the action of social movements and the formulation of public policies. Formed by scientists and educators, the Institute has historically mission combat the three evils that threaten the survival of the forest and its population: landscape degraded, unsustainable economies and social injustice. In this sense, another important premise IPAM is the idea that the solutions to the problems Amazonian need, necessarily, include the active participation of people living in the region, particularly forest peoples: indigenous, extractive, riverine and maroons, among others. Throughout the history of IPAM, this style of doing science is cemented in the notion of participatory research. Measure and evaluate both the point of view of scientific research and conservation of the environment and from the point of view of the community. Another feature of community work IPAM is the concern with social organization.	Altamira Office Rua Floriano Peixoto, 3338 Bairro: Esplanada do Xingu Altamira - PA 68.372-862 Phone: (93) 3515-3510 Belém Office Trav. Mauriti, 3398 - Altos Bairro: Marco Belém - PA 66093-180 Phone: (91) 3239-6500 Brasília Office SHIN CA 5, Bloco J2 - Salas 306,308,309 Bairro: Lago Norte Brasília-DF 71503-505 Phone: (61) 3468-2206 / 2109-4150 Website: http://www.ipam.org.br/contato
6. CENPEC (Centre for Studies and Research in Education, Culture and Community Action) 7. Criança	Established in 1987. Aims to develop actions for improvement of the quality of public education and participation in the improvement of social policy. Also, have focused on public school, the educational spaces of public character and the policies and initiatives to solve the inequalities Safe Kids Worldwide is a global organization dedicated	Rua Minas Gerais, 228 São Paulo - SP CEP: 01244-010 Phone/fax: (11) 2132-9000 Website: http://www.cenpec.org.br
Segura (Child	to preventing injuries in children, the number one killer	

Organization	Mission	Contact Address
Safe)	of kids in the United States. Around the world, a child dies from an unintentional injury every 30 seconds. And millions of children are injured in ways that can affect them for a lifetime.	Phone: (11)3371-2381 Website: http://criancasegura.org.br
8. Saúde Criança (Child Health)	Founded in 1991 by Dr. Vera Cordeiro. Aim is to works with a pioneering methodology to restructure and promote the self-support of the families of children at social risk from public health units.	New York Office Brazil Child Health 161 West 61st Street, Suite 28B New York, NY 10023 Phone: +1 (212) 399-5689 brazilchildhealth@saudecrianc a.org.br São Paulo Office Rua Fortunato, 123. Santa Cecília São Paulo (SP) - Brasil CEP 01224-030 Phone: +55 11 3459 1885 saopaulo@saudecrianca.org.br Website: http://www.saudecrianca.org.br
9. Viva Rio	Founded in December 1993 by representatives of various sectors of civil society, as a response to the growing violence plaguing Rio de Janeiro. Aim to commit to the research, field work and the formulation of public policies aimed at promoting the culture of peace and social inclusion.	Rio de Janeiro Headquarter Rua do Russel, 76 - Glória Rio de Janeiro - RJ 22210-010 Phone: +55 21 2555-3750 Website: http://vivario.org.br
10. ABEAD (The Brazilian Association of Studies on Alcohol and other Drugs)	Founded in 1989. Headquartered in Porto Alegre. ABEAD (The Brazilian Association of Studies on Alcohol and other Drugs) is an association that brings together professionals working in the field of chemical dependency in Brazil, with affiliates and representations in the country and abroad.	Phone: (21) 7130 3898 (11) 3062.9696 E-mail: secretaria@abead.com.br Website: http://www.abead.com.br
11. Florescer	Founded in 1990 in São Manuel (São Paulo) by Nadia Bacchi and settled in the community Paraisopolis - Morumbi (2nd largest community of São Paulo with 85,000 inhabitants) in 1995. Aims to contribute to the social community Paraisopolis, providing services related to education, sport, leisure, culture and professionalism, restoring dignity, respect and the family and community. Besides collaborating for educational and psychological development of children, support to discover hidden talents and new professions.	Rua Manoel Antônio Pinto, 500 - Paraisópolis - São Paulo - SP Phone: (11) 3746-9846 Email: projflorescer@uol.com.br Website: http://www.ongflorescer.com.b
12. Doe Vida	Founded on August 16, 2003. Aims at the expansion of the work in support of people who need an organ transplant, as well as those who suffer from illness related in order to contribute to improving the quality of life of these people and assist in the painful process of waiting for a transplant. Also, aim to contribute to raising awareness of the population about the importance of organ donation and transplantation, through talks at schools, businesses and other institutions to thereby mitigate the large waiting list for a transplantation, which for many Brazilians is the only way to continue living. In addition, provide continuous care to patients who are waiting for an organ transplant recipients and their families.	E-mail: doevida@doevida.org.br Phone: 3307-5010/3307-5070 Website: http://www.doevida.org.br
13. Doe seu Lixo	Founded in 2003. Aims to reduce environmental impacts, caused by improper waste disposal, encourage civic awareness and provide education to contribute with increasing dignity and quality of life for professional recycling.	Rua Pedro Alves, 240 Galapao 8 Santo Cristo 20220-284 RJ E-mail: atendimento@doeseulixo.org.b r Phone: 21-3177-6101 Website:

Organization	Mission	Contact Address
		http://www.doeseulixo.org.br
14. Instituto de Pesqusias Tecnológicas (IPÊ)	Founded in 1992. Currently one of the largest environmental NGOs in Brazil. Headquartered in Nazaré Paulista (São Paulo State) with a staff of over ninety professionals working in more than forty projects throughout Brazil. These include the Pontal do Paranapanema and Nazaré Paulista (São Paulo State), Ariri (São Paulo and Parana states), the Lower Rio Negro (Amazonas State), the Pantanal (Mato Grosso do Sul State), and a private area in Portel (Pará State). IPÊ undertakes an integrated action model, developed through years of experience, that combines research, environmental education, habitat restoration, community involvement with sustainable development, landscape conservation and policy-making.	Nazaré Headquarters Rod. Dom Pedro I, km 47 Nazaré Paulista, SP, Brasil Caixa Postal 47 - 12960-000 Phone: (11) 4597-1327, (11) 4597-7155 / 4597-7161 E-mail: General: ipe@ipe.org.br Courses: cbbc@ipe.org.br Website: http://www.ipe.org.br
15. Repórter Brasil	Founded in 2001 by journalists, social scientists and educators in order to foster reflection and action on the violation of the fundamental rights of people and workers in Brazil. One of the most important sources of information about slave labor in the country.	Phone: (11) 4873-7646. E-mail: contato@reporterbrasil.org.br. Website: http://reporterbrasil.org.br
16. ABGLT	The Brazilian Gay, Lesbian, Bisexual, Transvestite and Transexual Association – ABGLT, was founded on January 31st 1995, by 31 founding member groups. A national network of 203 organizations, of which 141 are gay, lesbian, and trans groups, and the remaining 62 are "collaborating" organizations involved with human rights and AIDS. ABGLT is the largest GLBT network in Latin America. Aim to promote the citizenship and defend the rights of gay men, lesbians, bisexuals and trans persons, in order to contribute towards the construction of a democracy free from any forms of discrimination, affirming the freedom of sexual orientation and gender identities. Currently ABGLT's main work fronts include: - Monitoring the implantation and implementation of the federal government Brazil without Homophobia programme; - Combating AIDS and other sexually transmitted diseases; - Sexual Orientation and Human Rights in the Mercosur; - Advocacy for the approval of legislation and ensuring government budgets for affirmative policies for GLBT; - Capacity-building for lesbians and bisexual women on human rights issues and advocacy; - Capacity-building for legal professionals on issues relating to LGBT citizenship.	ABGLT Presidência Av. Afonso Pena, 867 Sala 2207 Belo Horizonte - MG - CEP: 30130-905 Phone: (31) 8817-1170/ (31)9285-7161 / (61) 8250-1682 1ª Vice-Presidência: Keila Simpson (Bahia) atrasba@yahoo.com.br 2ª Vice-Presidência: Guilhermina Cunha (Santa Catarina) guilherminacunha@gmail.com Secretário-Geral: Victor De Wolf (Rio de Janeiro) vdwrm@hotmail.com; secretariageral@abglt.org.br Website:http://www.abglt.org.b r/port/contatos.php
17. Instituto Ayrton Senna	Founded in 1994, as the dream of Ayrton Senna, a three-time world Formula 1 champion, the Institute works to develop the potential of new generations and benefits students to be successful at school in order to be able to respond to the professional, economic, cultural and political demands of the 21st century. The Institute prepares more than 75,000 teachers and managers every year, and almost 2 million children and young people benefit directly from the work of these teachers, who are trained by the organization, in more than 1300 municipalities in various regions in Brazil.	Rua Dr. Fernandes Coelho, 85 - 15° andar Pinheiros - São Paulo - SP 05423-040 Phone: (11) 2974-3000 Website: http://senna.globo.com/institut oayrtonsenna
18. Pense Brasil (Think Brazil)	Aim to promotes various educational, vocational, artistic, cultural and sporting activities for children, adolescents, adults and the community best age, stating their identity and fostering local development.	Rua João Florêncio , 75 – Centro Barra de São Miguel (AL) CEP 57180-000 Phone: (82) 3272-1838 E-mail:

Organization	Mission	Contact Address
		pensebrasil@pensebrasil.org Website: http://www.pensebrasil.org/
19. AACD (Association for Assistance to Deficient Children)	Founded in 1950 through the dream of doctor in Brazil who wanted to create a rehabilitation center with the same quality of centers that knew abroad to treat children and adolescents with disabilities and reintegrate them into society. Dr. Renato da Costa Bomfim assembled a group of idealistic.	Website: http://www.aacd.org.br
20. Turma do Bem	Founded in 2002. Aim to change society's perception on the issue of oral health and the dental profession regarding the social impact of its activity.	Rua Sousa Ramos, 311 CEP 04120-080 - Vila Mariana - São Paulo Phone/Fax: 11 5084-7276 5084-1399 E-mail: PRESIDENTE turmadobem@tdb.org.br COMUNICAÇÃO comunicacao@tdb.org.br DÚVIDAS, CRÍTICAS OU SUGESTÕES faleconosco@tdb.org.br Website: http://turmadobem.com.br
21. Banco de Alimentos	Founded in April 1998. Aim to minimize hunger by combating food waste while promoting community education.	Rua Atibaia, 218 - Pacaembu - CEP: 01235-010 - São Paulo -SP Phone: (11) 3674-0080 Fax: (11) 3674-0081 E-mail: info@bancodealimentos.org.br Website:http://www.bancodealimentos.org.br
22. Pastoral da Criança	Aim at the "full development of children, promoting in their function, also their families and communities, regardless of race, color, profession, nationality, sex, creed, religious or political.	Endereço: Rua Jacarezinho 1691 - Mercês :: CEP: 80810-900 - Curitiba - Paraná - Brasil Phone: (41) 2105-0250 Fax: (41) 2105-0201 e 2105-0299 Website: http://www.pastoralda crianca.org.br

Source: The Brazil Business, http://thebrazilbusiness.com/article/forming-a-non-governmental-organization-in-brazil

Chapter 2 Natural Environment

2.1 Overview

Brazil is classified among one of the world's 17 mega-diverse countries, incorporating 70% of the world's catalogued animal and plant species¹. It is estimated that Brazil hosts between 15-20% of all the world's biological diversity, and the greatest number of endemic species on a global scale. This is an important resource, not only for the environmental services provided, but also for the development and sustainable use opportunities available. The main threats to biodiversity are: fragmentation and lose of habitats, introduction of alien species and exotic illnesses, overexploitation of plants and animals, use of hybrids and monoculture in agroindustry and reforestation programs, pollution and climate change.²

From the geographical point of view, Brazil's huge territory can be divided into rain forests covering much of the Amazon drainage basin, swampland considering to be the world largest fresh water swamp, savannah grasslands (cerrado) covering Brazil's Highlands, and semi-desert (caatinga) in the north. These different ecosystems sustain together the world's highest biodiversity. Many endemic species are living in these different types of land and some of them, animals and plants, can only be found in specific regions of Brazil. Tables 2.1.1 and 2.1.2 summarize conservation status, administered by federal and state level, respectively. As summarized in both tables, about 130 km² in total are protected at the federal and state level. Besides, there are conservation areas, protected at municipality level (note that statistical information of entire protected areas at municipality level is unknown within this study). Figure 2.1.1 shows the distribution of the conservation units in Brazil.

In order to protect these natural environments and its biodiversity, Brazil is not only part of a number of international conventions, but is also is also enforcing domestic environmental law dealing directly with the preservation of nature and biodiversity. Its participation in international environmental regulation and its National Environmental Policy have made it possible to define several Brazilian areas as protected areas3and to have rules to protect a great number of species.

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¹ Currently around 1.9 million extant species are believed to have been described, but some scientists believe 20% are synonyms, reducing the total valid described species to 1.5 million, http://en.wikipedia.org/wiki/Global biodiversity.

https://www.cbd.int/countries/profile/default.shtml?country=br#status

³ According to the United Nations Environment Program's Global Biodiversity Outlook 3, nearly 75 % of protected areas created around the world since 2003 (700,000 km²) are located in Brazil.

Table 2.1.1 Federal Conservation Units by group and management categories

Group/Category	Number	Area (km2)
Strict Protection		
National Park	67	245,756
Biological Reserve	29	38,091
Ecological Station	31	69,019
Natural Monument	3	442
Wildlife Refuge	7	1,840
Subtotal	137	335,147
Sustainable Use		
Environmental Protection Area	16	445
Area of special Ecological Interest	32	90,486
Extractive Reserve	59	117,552
National Forest	65	190,314
Sustainable Development Reserve	1	644
Subtotal	173	399,441
Total	310	754,588

Source: UNEP-WCMC, 2011

Table 2.1.2 State Conservation Units by group and management categories

Group/Category	Number	Area (km²)
Strict Protection		
State Park	144	67,786
Biological Reserve	14	12,513
Ecological Station	47	44,771
Natural Monument	11	602
Wildlife Refuge	6	1,252
Subtotal	222	126,923
Sustainable Use		
Area of special ecological interest	19	103
Environmental Protection Area	109	186,510
Extractive Reserve	3	6,674
State Forest	17	93,959
Sustainable Development Reserve	18	95,288
Subtotal	166	382,534
Total	388	509,457

Source: UNEP-WCMC, 2011

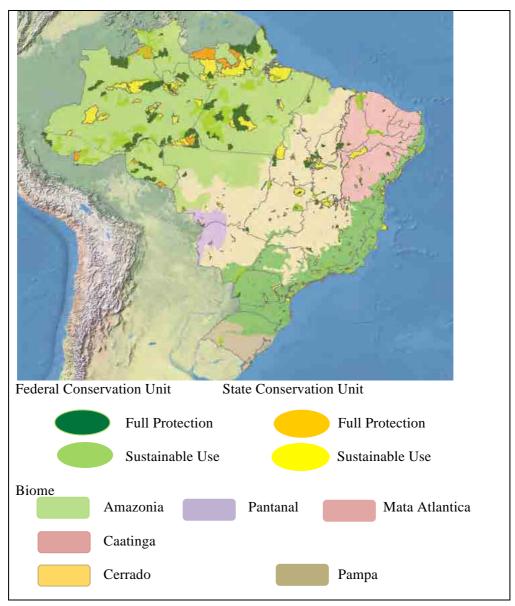


Figure 2.1.1 Distribution of conservation units in the Brazil

Source: UNEP-WCMC, 2011

2.2 Regulation and Policies

2.2.1 International Conventions

Brazil assumes a key and strategic role on the global stage since it is part of several international environmental treaties that has been consecrated through the enactment of Federal Laws. Among the main environmental conventions that Brazil has ratified:

- The Convention on Biological Diversity (ratified in 1994);
- The United Nations Convention Framework Convention on Climate Change (ratified in 1994);

- The United Nations Convention to Combat Desertification in those Countries experiencing serious Drought and/or Desertification (ratified in 1997);
- The Convention on the International Trade in Endangered Species of Wild Flora and Fauna (ratified in 1995);
- Others.

Overall status of the ratification and the application of international environmental agreements is summarized in Appendix 1.

In addition to its participation in those international conventions, Brazil takes part actively in international conferences on the environment. In 1992, it held the Conference on Environment and Development resulting in the draft of Brazilian Agenda 21 redefining the country development's model and introducing the concept of sustainability.

2.2.2 Domestic Law

Following its environmental principles that are linked to sustainable development, social participation and control, strengthening the National Environment System, and transversality, Brazil's government has passed several environmental laws, summarized in Table 2.2.1.

Table 2.2.1 Key Environmental Legislation of Brazil

Legislation	Short definition	
Federal Constitution in 1988	Providing the main framework and provisions for	
	environmental protection.	
Federal Law 6,938 in 1981	Establishing the National Environmental Policy.	
Federal Law 7,735 in 1989	Creating the federal environmental protection agency IBAMA	
	(Brazilian Institute for Environment and Renewable	
	Resources).	
Federal Law 9,433 in 1997	Stating the National Policy on Wate	
	r Resources and regulating the regime of water use.	
Federal Law 9,605 in 1998	Establishing sanctions applicable to different crimes against	
(Environmental Crime Law)	environment.	
Federal Law 9,966 in 2000	Governing the prevention, control, oversight of oil pollution	
	and others hazardous substances in Brazilian waters.	
Federal Law 9,985 in 2000	Establishing the Protected Areas National System for the	
	protection of biodiversity.	
Provisional Measure 2, 186-16 in 2001	Regulating the access of genetic heritage and its protection for	
	associated traditional knowledge.	
Federal Law 11,105 in 2005	Regulating bio-safety and genetically modified organisms.	
Federal Law 11,516 in 2007	Creating the federal agency responsible for the management of	
	federal conservation units ICMBio (Chico Mendes Institute for	
	Preservation of the Environment and Biodiversity).	
Federal Law 12,187 in 2009	To represent Brazil's commitment to addressing greenhouse gas	
	emission and to state the National Program of Climate Change.	
Federal Law 12,305 in 2010	Establishing the National Policy for Solid Waste.	
Complementary Federal Law 140 in		
2011	environment and natural resources.	
Federal Law 12,651 in 2012	Establishing the new Brazilian Forest Code to regulate the	
	protection of Legal Forestry Reserves and the Permanent	
	Protected Areas.	

Source latinlawyer.com, us.practicallaw.com

2.2.3 National Environmental Policy (1981)

In August 31 1981, the National Environmental Policy (NEP) through the Federal Law 6.938 was put into force by the Brazilian government. Its main objective is to ensure a greater protection of the environment by establishing standards that make sustainable development possible. Its objectives, described in Article 4, are as follows:

- To ensure that the socio-economic development takes place in harmony with the preservation of environmental quality and ecological equilibrium;
- To define priority areas for governmental action concerning ecological quality and equilibrium, in agreement with the interests of the Federal Government, the states, the federal district, the territories and the municipal districts;
- To establish criteria and standards for the quality of the environment and norms related to the use and management of environmental resources;
- To develop national research and technologies aimed at rationalizing the use of environmental resources;
- To divulge environmental management technologies and environmental data and information, and to develop a public conscience regarding the importance of protecting the environmental quality and the ecological equilibrium;
- To preserve and restore the environmental resources with a view to their rational use and permanent availability, ensuring the maintenance of the ecological equilibrium;
- To obligate the polluter or any other harmful agent to recover or pay an indemnity for the damage caused, and the usually to financially contribute in view of the commercial utilization of environmental resources;

To promote environment protection, the Article 9 presents 12 instruments:

- The establishment of environmental quality standards;
- The environmental zoning;
- The assessment of environmental impacts;
- The licensing and revision of polluting activities;
- The incentives to the production and installation of equipment and the development or incorporation of technologies for the improvement of the environment;
- The establishment of ecological reserves and stations, animal and ecological protection areas, by the federal, states and municipal public authorities;
- The national environmental information system;
- The Federal Technical Register of the Activities and Instruments of Environmental Protection;
- The disciplinary and compensatory penalties resulting from the non-compliance with the measures required for the prevention and correction of environmental degradation.

- The establishment of the Report of Environmental Quality, to be published annually by the Brazilian Institute of Environment and Natural Resources IBAMA (Item added by Federal Law 7.804);
- To ensure the provision of information relating to the environment, and ensuring the Government produces them when they are absent (Item added by Federal Law 7.804);
- The Federal Technical Registry of potentially polluting activities and/or ones that use environmental resources (Item added by Federal Law 7.804).

2.2.4 Environmental Governance and Regulation Enforcement

To protect and improve the Brazilian environmental quality, the National Environmental System (SISNAMA), that will bring together various environmental institutions and agencies of different levels (federal, state, municipal), was implemented. Figure 2.2.1 shows the framework of SISNAMA.

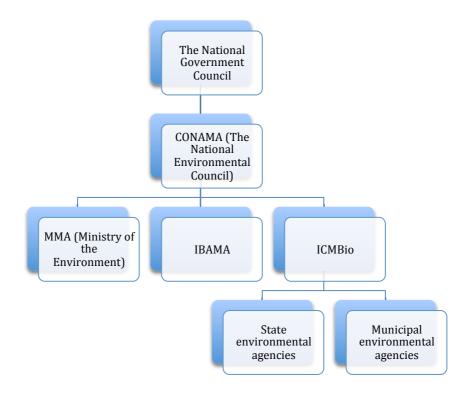


Figure 2.2.1 The National Environmental System's (SISNAMA)

At the top of the system's structure can be found the National Government Council, which advises the Brazilian President to formulate the guidelines and national environmental policies. Below there will be the main environmental regulatory agencies that will enforce the environmental laws.

First at the nation and federal level, comes the CONAMA, this system's core agency that has

the power to pass important environmental regulation nationwide. It deliberates over rules and standards suitable for protecting the environment, which must be followed by states and municipalities.

It is followed by the MMA, the central body, which plans, coordinates, supervises and controls the National Environmental Policy and guidelines established for the environment, performing the task of holding together the SISNAMA's various agencies and entities. The MMA is linked with federal regulatory agencies such as the IBAMA, which is responsible for applying environmental statutes and regulations, executing the environmental permitting of activities located in strategic areas for the country and those with regional impacts. There is also the ICMBio, with the role to manage and enforce environmental policies in federal protected areas.

Finally, at the bottom of the structure can be found the state environmental agencies such as FEEMA (State Environmental Engineering Foundation) in Rio de Janeiro, which are enforcing tightly environmental laws. Those agencies are also in charge of enforcing pollutant activities when the environmental impact does not reach federal and local interests. As for the municipal bodies, they are responsible for the control and inspection of activities potentially harmful to the environment.

There are also other executing agencies, which are also enforcing the National Environmental Policy and are therefore associated with the protection of the environmental quality such as:

- CGEN (Genetic Heritage Management National Council), which will regulate, monitor and run policies for genetic heritage management;
- CNBS (Biosafety National Commission), in charge of approving GMOs' market-use.

2.2.5 The National System of Conservation Units (SNUC)⁴

Brazil's system of conservation units has evolved rapidly over the past few years, as has the force of destructive processes such as deforestation, logging and forest fires. A new law creating a National System of Conservation Units (SNUC) was approved by the National Congress in July 2000 (law no. 9985/2000). The law was approved after eight years of deliberation in the face of intractable differences among the various interested parties.

Brazil has a wide array of different types of conservation units. In many cases these serve different purposes, while in others they have similar purposes but owe their origin to the different government agencies that have promoted them. Areas that are primarily for maintaining natural ecosystems without human presence (except for small areas designated for

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⁴ FEARNSIDE, P.M., Conservation Policy in Brazilian Amazonia: Understanding the Dilemmas, World Development, Vol. 31, 2003.

research) were formerly classed as "indirect-use areas" in Brazilian legislation, a terminology now changed to "integral-protection areas" under the National System of Conservation Units (SNUC). Federal conservation units in this category include National Parks, Ecological Reserves (formerly Ecological Stations) and Biological Reserves.

There are following several conservation programs, conducted under this SNUC.

(1) Pilot Program (PP-G7)

The Pilot Program to Conserve the Brazilian Rain Forest (PP-G7) was announced by the G-7 countries at their meeting in Houston in 1990, when global concern over Amazonian deforestation was at a high point and coverage appeared almost daily in the international press. Under pressure from their constituents, the G-7 leaders (Canada, France, Germany, Italy, Japan, the United Kingdom, and the United States) noticed that they would commit US\$1.5 billion to the program.

PP-G7 was originally expected to last for only three years, but delays in initiating several components, combined with the desire on all sides to continue the most successful activities, resulted in repeated extension of the program. Some components are expected to last to 2010.

PP-G7 is financed by the G-7 countries and administered by the World Bank and the Brazilian government. Components include the PD/A ("Type A" demonstration projects) for small-scale sustainable development projects carried out by NGOs, extractive reserves and indigenous lands. A Sub-Program for Natural Resources (SPRN), described later, includes environmental, economic zoning (ZEE) and strengthening of the state environmental agency (OEMA) in each of the nine states in the Brazilian Legal Amazon region. The Pro-Management Project (PROMANEJO) promotes sustainable forestry initiatives, including those in National Forests (FLONAs). Other components address management of floodplains, science and technology, and a special program to combat burning.

✓ Sub-Program for Natural Resources (SPRN)

The Sub-Program for Natural Resources (SPRN) fortifies the state environmental agencies (OEMAs), including special activities within Integrated Environmental Management Project (PGAI) areas and an Ecological-Economic Zoning (ZEE) of each state. Zoning has been a particularly controversial issue, with extended negotiations between federal authorities and each state government having delayed implementation in some states.

While planning can be greatly improved by efforts using zoning to think ahead about the consequences of different development decisions, the reality observed today is quite different.

The real zoning is taking place today (without discussions of impacts) through major decisions such as implantation of the development axes that are part of the PAC, mentioned in Section 1.2 of Chapter 1. Billions of dollars are being sought in investments before the environmental studies, zoning studies, and other information has been produced and debated. Zoning is therefore being done in practice on a massive scale without following any of the principles that guide the zoning programs now underway.

✓ Ecological Corridors

The ecological corridors project is designed to promote a coordinated management of the different types of conservation units and indigenous lands in a contiguous area, including the interstitial area that completes the landscape within the corridor. So far, only one corridor in Amazonia is actively being pursued, although an additional four corridors outlined in early plans for the project may eventually be added. Contrary to the fears of some politicians, the corridors do not freeze development within their boundaries; rather, they can serve as an aide in obtaining assistance for sustainable development projects appropriate to these areas.

✓ Extractive Reserves (RESEX)

Extractive reserves (RESEX), originated from a 1985 proposal by the National Council of Rubber-tappers under the leadership of Chico Mendes, and have been created by the federal government as a form of conservation unit since February 1988. The area under this form of land use now totals over 3 million ha, and additional units are proposed. Extractive reserves have been criticized as condemning their residents to poverty and as financially unviable due to the low price of extractive products such as rubber and Brazil nuts. It is important to realize, however, that the rationale for creating extractive reserves is environmental, rather than a means of supplying cheap rubber or of supporting a large human population.

This is why extractive reserves are created as conservation units by the MMA, rather than as settlements by the National Institute for Colonization and Agrarian Reform (INCRA) in the Ministry of Agrarian Development. It is also significant that proposals for extractive reserves originate from the extractivists themselves, rather than from government authorities. Instead of condemning the residents to poverty, the reserves offer them a better and more stable income than they could realistically expect in the absence of the reserves. The idea that the residents have been tricked by environmentalists into forgoing a life as prosperous farmers is entirely fictitious; rather, they would more likely be forced to move to urban favelas (shantytowns) or would join the ranks of landless poor in rural areas of the region. Under the PP-G7, the RESEX project has strengthened extractive communities in the reserves, helping them with marketing and facilitating access to health, education and other services.

✓ Indigenous Lands (PPTAL)

The Integrated Project for Protection of Indigenous Populations and Lands in the Legal Amazon (PPTAL) has produced concrete achievements that affect large areas of the region. The participative demarcation methodology, developed under the PPTAL, with the indigenous peoples themselves doing the demarcation rather than having the work done by a corporate contractor, has been successful both in rapid and cost-effective execution of the task and in generating organizational experience and attitudes among the members of the indigenous groups that will serve them well in defending their territories and in implementing sustainable activities within them. Problems with contracted firms resisting and undermining the indigenous supervision of the demarcation have lead to a learning process to strengthen application of the methodology over the course of the PPTAL.

(2) PROAPAM: The "10% Project"

On April 29, 1998, Brazilian president Fernando Henrique Cardoso announced a commitment to create totally protected areas to increase the percentage of Amazonian forest ecosystems with this level of protection to 10% by 2004. This effort was promoted by the Worldwide Fund for Nature (WWF) and the World Bank as part of the WWF "forests for life" campaign.

The Program to Expand Areas of Environmental Protection (PROAPAM, also called ARPA), better known as the "10% Project," was created within the MMA to achieve this goal.

2.3 Wildlife Species

2.3.1 Endemic Species

Brazil has more unique species of amphibians and freshwater fish than any other country in the world and is one of the main contenders for most species of endemic life. Brazil has several distinctive regions rich in animals and plants found nowhere else including the Caatinga ecoregion, the Atlantic Forest and Cerrado biodiversity hotspots, the Abrolhos Coral Reefs, and, most famously, the Amazon. Freshwater eco-regions especially rich in endemic species include the Tocantins- Araguaia and the Northeastern Mata Atlantica.

Primates found exclusively in Brazil include the Golden Lion Tamarin, the Northern Muriqui, the White-whiskered Spider Monkey, the Red-handed Howler, Coimbra Filho's Titi, the Pied Tamarin, Ayres Black Uakari, the Black-bearded Saki, and the Blonde Capuchin. Other mammals unique to Brazil include the Maned Sloth, the Brazilian Three-banded Armadillo, the Hoary Fox, the Atlantic Forest Long-nosed Bat, the Thin-spined Porcupine, the Rock Cavy, the

Painted Tree Rat, Karimi's Fat-tailed Mouse Opossum, the White-spotted Mountain Rat, and Santa Catarina's Guinea Pig.

Brazil's endemic parrots include the critically endangered Spix's Macaw, the Golden Conure, Lear's Macaw, and the Blue-bellied Parrot. Other birds found only in Brazil include Kaempfer's Woodpecker, the Hooded Visorbearer, the Frilled Coquette, the Alagoas Curassow, the Whitenecked Hawk, the Crescent-chested Puffbird, the Banded Cotinga, the Pin-tailed Manakin, the White-browed Antpitta, the Ferruginous Antbird, the White-naped Jay, the Black-legged Dacnis, and the Gray-hooded Attila.

Among reptile are a worm lizard Bronia. gymnophthalmid endemic genera a lizard Psilophthalmus, a gecko Gymnodactylus, and several colubrid snakes: Tropidodryas, Gomesophis and Sordellina. Other reptiles unique to Brazil include the Lancehead Bothrops insularis, and the Brazilian Coral Snake Micrurus decorates.

Brazil's exceptional amphibian fauna includes the Pumpkin Toadlet, the Caatinga Horned Frog, the Fruit-eating Frog, the Splash-backed Poison Frog, the Itatiaia Highland Frog, Frostius erythrophthalmus, Phyllomedusa oreades, Paratelmatobius poecilogaster, Scythrophrys sawayae, a salamander Bolitoglossa paraensisa, a caecilian Atretochoana eiselti, and a number of recently described species. Some classifications include only Cycloramphus and Thoropa in Cycloramphidae, resulting in an endemic family.

Brazil's unrivaled richness in endemic freshwater fish species includes the Brazilian Blind Characid Stygichthys typhlops, the Green Piranha, the Santa Catarina Sabrefin, the Lyrefin Pearlfish Simpsonichthys boitonei, the Royal Tetra, the Gold Tetra Rachoviscus crassiceps, the Slender Pike Cichlid, Arapaima leptosoma, the Blue-bellied Night Wanderer, Isbrueckerichthys duseni, the Long-finned Cambeva Trichogenes longipinnis, an eyeless banjo catfish Micromyzon akamai, Maratecoara lacortei, and the White-blotched River Stingray. Among marine fish found only off Brazil are the Oblique Butterflyfish, the Striped Parrotfish Scarus zelindae, the Brazilian Basslet, a wrasse Halichoeres penrosei, the Saint Pul Gregory, the Brazilian Large-eyed Stingray.

Invertebrates found solely in Brazil include the Fluminense Swallowtail Parides ascanius, Morpho anaxibia, Morpho athena, Charonias theano, Heliconius nattereri, an endemic genus of bee Protomeliturga, the primitive ant Martialis heureka, the strepsipteran family Bahiaxenidae, the mayfly family Melanemerellidae, the moth family Neotheoridae, the isopod family Brasileirinidae, a land snailMegalobulimus parafragilior, and one of the world's largest spiders, the Brazilian Salmon Pink Tarantula. Endemic marine invertebrates include the corals Mussismilia hispida and Favia leptophylla, a sea slug Tambja stegosauriformis, and the molluscs Conus abrolhosensis and Voluta ebraea

According to the Lista de Espécies da Flora do Brasil over 18,000 species of vascular plants are endemic to Brazil. Plants exclusive to Brazil include the national tree Pau Brasil, the Brazilian Rosewood, the roundworm digesting Philcoxia minensis, and the Empress of Brazil Worsleya procera. Duckeodendron cestroides is sometimes considered the sole species in an endemic family, Duckeodendraceae. Among over 1,600 orchid species unique to Brazil are Chytroglossa marileoniae, Grobya amherstiae, and Pseudolaelia vellozicola. A spectacular endemic bromeliad flora includes Quesnelia arvensis, Orthophytum eddie-estevesii, and Nidularium rutilans, Cacti genera found only in Brazil include Hatiora, Cipocereus, Stephanocereus, and Espostoopsis.

Table 2.3.1 summarizes brief summary of biodiversity in Brazil.

•	·
Classification	Number of recorded species
Mammal	658*1
Reptile	732*2
Amphibian	946 ⁻³
Birds	1,901*4
Freshwater Fish	3,000
Butterfly	3,150
Plant	55,000

Source:

Remaining are after http://en.wikipedia.org/wiki/Wildlife_of_Brazil

2.3.2 Endangered Species

The International Union for Conservation of Nature publishes every year an inventory of the global conservation status of biological species (see Tables 2.3.2 and 2.3.3). Based on the IUCN's database updated in 2013, in Brazil 436 animal species and 505 plant species are critically endangered (CR), endangered (EN) or vulnerable (VU). Details list of each species are summarized in Appendix 2.

Table 2.3.2 Conservation Status of Biological Species in Brazil

	EX	EW	CR	EN	VU	Total
Animal	9	1	71	114	245	440
Plant	5	1	76	175	253	510

Notes: EX: Extinct; EW: Extinct in the wild; CR: Critically endangered; VU: Vulnerable Source IUCN (2013)

Table 2.3.3 Threatened species in Brazil (total by taxonomic group)

Mammals	Birds	Reptiles	Amphibians	Fish	Insect	Plants	Other	Total
85	152	29	34	84	27	510	29	950

Source IUCN (2013)

2.3.3 Internationally Protected Species

Brazil ratifies two international conventions for the protection of species:

^{*1} http://en.wikipedia.org/wiki/List_of_mammals_in_Brazil

^{*2} http://en.wikipedia.org/wiki/List_of_reptiles_in_Brazil

^{*3} http://en.wikipedia.org/wiki/List_of_amphibians_in_Brazil

^{*4} http://en.wikipedia.org/wiki/List_of_birds_of_Brazil

- Convention on the International Trade in Endangered Species of Wild Flora and Fauna (CITES);
- Convention on Migratory Species of Wild Animals (CMS).

The CITES is an international agreement between governments to ensure that international trade in specimens of wild animals and plants does not threaten their survival (see Table 2.3.4).

Table 2.3.4 Total of Brazilian species in CITES Appendices

Appendix	Mammal	Bird	Reptile	Amphibian	Fish	Plant
I	42	26	5	0	2	22
II	131	254	39	16	8	827
I/II	2	2	2	0	0	0
III	10	11	1	0	0	3
Total	185	293	47	16	10	852

Source CITES-listed species database

As for the CMS, it is an intergovernmental treaty, concluded under the aegis of the United Nations Environment Programme, concerned with the conservation of wildlife and habitats on a global scale. It aims to conserve terrestrial, aquatic and avian migratory species throughout their range (see Table 2.3.5).

Table 2.3.5 Total of Brazilian species in CMS Appendices

Appendix	Mammal	Bird
I	2	1
II	15	68
Total	17	69

Source CMS-listed species database

A complete listing of species in Brazil protected by the CITES and the CMS are summarized in Appendices 3 and 4.

2.4 Important Ecosystems and Habitats

2.4.1 Protected Areas

To protect the rich diversity offered by Brazil's nature, there are a number of reserves, parks and protected areas throughout the country (in total, 380 protected areas exist; see Tables 2.4.1 and 2.4.2). Those areas are divided into 7 main categories:

- ✓ Area of Environmental Protection;
- ✓ Wildlife Sanctuary;
- ✓ Biological Reserve;
- ✓ Ecological station;

- ✓ National Park;
- ✓ Area of Considerable Ecological Interest;
- ✓ Sustainable Development Reserve.

Table 2.4.1 Type of Protected Areas defined by the Brazilian Institute of Environment and Renewable Natural Resources (IBAMA)

Towns of Duntantal	Description
Type of Protected	Description
Areas	
1. Area of	Large area characterized by a considerable population density and with
Environmental	abiotic, biotic, aesthetic, or cultural features of great importance, above all for
Protection	the quality of life and wellness of man. Protecting biological diversity, regulating the settlement processes, and ensuring the sustainable use of natural resources are among its main aims.
2 W/1 11:6	It aims at protecting the natural environments ensuring the conditions for the
2. Wildlife	survival and reproduction of species or communities belonging to the local
Sanctuary	flora and to resident or migratory fauna.
3. Biological	It aims at strictly safeguarding the natural aspects within its borders, avoiding
Reserve	direct human interference or environmental changes, through measures to
	recover altered ecosystems and management actions necessary to recover or
	maintain the natural balance, biological diversity, and natural ecological
	processes.
4. Ecological	It aims at safeguarding nature and carrying out scientific research activities.
station	
5. National Park	It aims at preserving natural ecosystems of great beauty and ecological importance, giving the opportunity to carry out scientific research activities or developing environmental education and interpretation activities, as well as promoting recreational activities at direct contact with nature and ecological tourism.
6. Area of	Not very large area, with a scarce population density and extraordinary
Considerable	natural features of great importance at a regional and local level.
Ecological Interest	
7. Sustainable	Natural area including traditional populations whose existence is based on
Development	sustainable systems of exploitation of the natural resources which have been
Reserve	developed generation after generation and adapted to local ecological
	conditions. They play an essential role in the protection of nature and maintenance of biological diversity.

Table 2.4.2 Total number of Protected Areas in Brazil by Type

	* * *
Type of protected areas	Number
Area of Environmental Protection	170
Wildlife Sanctuary	5
Biological Reserve	5
Ecological station	81
National Park	61
Area of Considerable Ecological Interest	43
Sustainable Development Reserve	15

A complete list of Protected Areas in Brazil is summarized in Appendix 5. Location of all protected areas in Brazil is shown in Figure 2.1.1.

In Brazil, Protected Areas are regulated by the National System of Conservation Units (NSCU), a unified system encompassing all federal, state and municipal protected areas. Primarily destined for conservation, Conservation Units are another type of land in Brazil, which can include both public and private land, and serve as another tool to combat deforestation. The

system includes 12 management categories divided into two groups of Protected Areas: those under full protection and those allowing sustainable use of the land's resources. Protected areas under full protection are areas in which only indirect use of natural resources is allowed. These include: ecological stations; biological reserves; national, state or municipal parks; natural monuments; and wildlife refuges.

2.4.2 Ramsar Sites

The Ramsar Convention, established in 1971 in the Iranian city of Ramsar, is the only environmental intergovernmental treaty dealing with a particular ecosystem that is to say wetlands. All over the planet, the convention allows for national and international cooperation for the conservation and wise use of wetlands and their resources. As of today, 168 countries are part of the Convention, allowing 2,168 sites to be worldly recognized and protecting a total area of 206, 632,105 ha.

In response to the Article 2.1 of the Convention, Braz0il has designated suitable wetlands within its territory. The international community has recognized these wetlands to be of significant value not only for the country in which they are located, but also for the humanity.

In Brazil, there are 12 wetlands recognized as important under the Ramsar Convention, amounting for a total of 7,225,687 ha of protected sites (see Table 2.4.3).

Table 2.4.3 Wetlands of International importance in Brazil

Site Name	Date of Designation	Region	Area (ha)	Coordinates
Pantanal Matogrossense	24/5/93	Mato Grosso	135,000	17°39'S 057°25'W
Lagoa do Peixe	24/5/93	Rio Grande do Su	34,400	31°14'S 050°57'W
Mamirauá	4/10/93	Amazonas	1,124,000	02°18'S 066°02'W
Ilha do Bananal	4/10/93	Tocantins	562,312	10°31'S 050°12'W
Reentrancias Maranhenses	30/11/93	Maranhão	1,124,000	02°18'S 066°02'W
Reserva Particular del Patrimonio Natural (RPPN) "Fazenda Rio Negro"	22/05/09	Mato Grosso del Sur	7,000	19°33'S 056°13'W
Baixada Maranhense Environmental Protection Area	29/02/00	Maranhão	1,775,036	03°00'S 044°57'W
Parque Estadual Marinho do Parcel Manoel Luís including the Baixios do Mestre Álvaro & Tarol	29/02/00	Maranhão	34,556	c.00°30'S 044°45'W
Reserva Particular do Patrimonio Natural SESC Pantanal	6/12/02	Mato Grosso	87,871	16°39'S 056°15'W
Abrolhos Marine National Park	02/02/10	Bahía	91,300	17°49'S 038°49'W
Rio Doce State Park (Parque Estadual do Rio Doce)	15/03/10	Minas Gerais	35,973	19°38'S 042°32'W
Cabo Orange National Park (Parque Nacional do Cabo Orange)	02/02/13	Amapá	657,328	03°38'59"N 051°11'24"W

Source: Ramsar Convention (2013)

2.4.3 Biodiversity Hotspots

According to Conservation International (CI)⁵, to qualify a region as a hotspot, two strict criteria must be met: 0.5% of the world's total vascular plant (about 1,500 species) must be there as endemics, and this region must have lost at least 70 % of its original habitat. Following these criteria, Brazil hosts 2 biodiversity hotspots:

- Atlantic Forest, which was heavily deforested (only 8 % of this forest remains today);
- Cerrado, an important woodland/savannah ecosystem, where manned wolves and other large mammals are struggling due to the fast-changing habitat (soybean processing area, portion of land converted to cattle pasture and others)

2.4.4 Important Bird Areas (IBA)

Bird Life International uses the global IBA criteria to classify the different bird sites (see Tables 2.4.4 and 2.4.5 and Figure 2.4.2).

Table 2.4.4 Global IBA Criteria

Criteria	Description
A1. Globally	The site is known or thought regularly to hold significant numbers of a globally
threatened species	threatened species, or other species of global conservation concern.
A2. Restricted-	The site is known or thought to hold a significant component of a group of species
range species	whose breeding distributions define an Endemic Bird Area (EBA) or Secondary
	Area (SA).
A3. Biome-	The site is known or thought to hold a significant component of the group of
restricted species	species whose distributions are largely or wholly confined to one biome.
A4. Congregations	A site may qualify on any one or more of the four criteria listed below:
	i) Site known or thought to hold, on a regular basis, ≥ 1 % of a bio-geographic
	population of a congregatory water bird species.
	ii) Site known or thought to hold, on a regular basis, ≥ 1% of the global population
	of a congregatory seabird or terrestrial species.
	iii) Site known or thought to hold, on a regular basis, ≥ 20,000 water birds or ≥
	10,000 pairs of seabirds of one or more species.
	iv) Site known or thought to exceed thresholds set for migratory species at
	bottleneck sites.

Source Birdlife International (2013)

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⁵ Conservation International is a non-profit environmental organization founded in 1987 aiming to empower societies to responsibly and sustainably care for nature, the global diversity, and the well-being of humanity.

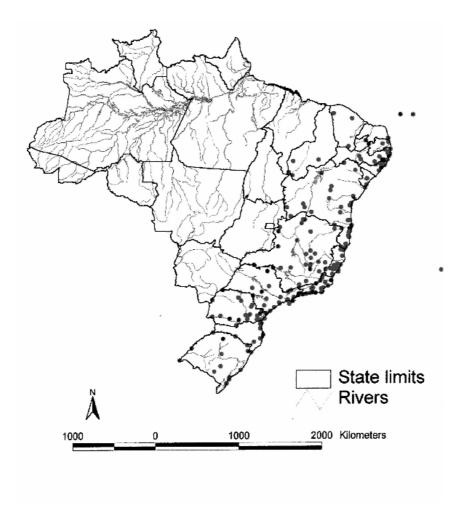


Figure 2.4.1 Example Location of potential IBAs in Brazil

Source Goerck and Wege (2005)

Table 2.4.5 Summary of Important Bird Area in Brazil

· ·	_		
Total number of IBA = 234			
Entire IBA Area = 90,994,690			
Number triggered by individual criteria			
Globally Threatened Species (A1)	219	Biome-restricted species (A3)	78
Restricted Range Species (A2)	124	Congregatory species (A4)	17
Number of AZE6 sites identified for birds	13		

Source Birdlife International (2013)

A complete list of important bird areas in Brazil is summarized in Appendix 6.

2.5 Forests

Brazil is a country, which has about 62% of its area covered by forests. It has also the largest areas of primary forest according to the Global Forest Resources Assessment. Table 2.5.1 summarizes recent forest area statistics of Brazil. Figure 2.5.1 shows the nationwide forest

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⁶ Alliance for Zero Extinction

distribution in Brazil.

Table 2.5.1 Extent of forest and other wooded land in Brazil

FRA 205 categories		Area (1,000 ha)				
	1990	2000	2005	2010	2011	
Forest	574,839	545,943	530,494	519,522	517,327	
Forest Area/Entire country (%)	67.5	64.1	62.3	61.0	60.8	

Note: Total area of Brazil is of 851,488,000 ha. Source FAOSTAT, FAO Statistics Division 2013

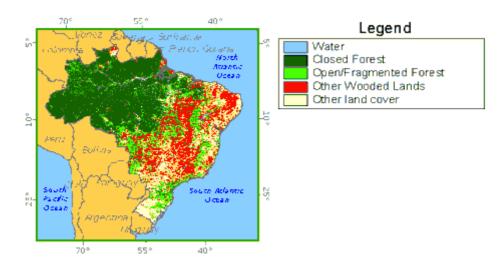


Figure 2.5.1 Nationwide Forest Distribution in Brazil

Source FAO, Global Forest Resources Assessment 2000

Figure 2.5.2 shows the pace of deforestation area (ha/year), calculated since 1977 in Brazil. Comparing the forest depletion of 1977-1999, which was 16,854 km² on average, and the forest depletion of 2012 of about 4,656 km², a decrease of 12,198 km² has been realized.

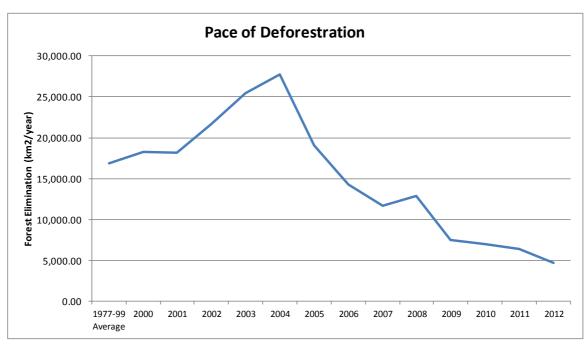


Figure 2.5.2 Pace of Deforestation in Brazil

Source: MMA

Even though the deforestation continues, a pace slow down of deforestation has occurred in forest depletion since 2005. Indeed, between 1990 and 2000, the annual deforestation rate was about 0.51~% and increased to 0.57~% between 2000 and 2005. However, between 2005 and 2010, this rate decreased to 0.42~%.

According to FAO (2010), forest estates within protected areas account for 17 % of the total forest areas, and only 6 % of the forests with management plans (see Table 2.5.2).

Table 2.5.2 Forest management and legal status 2010

	Area (1,000 ha)	% of forest area
Forest within protected areas	89,541	17
Forests with management plan	30,543	6

Source FAO, Global Forest Resources Assessment 2010

Primary forest amounts for approximately 92 % of the entire forest areas, which let for other naturally regenerated forests and planted forests a low percentage of respectively 7 % and 1 %, respectively (see Table 2.5.3).

Table 2.5.3 Status of Forests in Brazil (by type)

	Area (1,000 ha)	% of forest areas
Primary forests	476,573	92
Other naturally regenerated forests	35,532	7
Planted forests	35,532	7

Source FAO, Global Forest Resources Assessment 2010

Table 2.5.4 summarizes the forest ownership and management rights of 2005. Most of the forest areas are publicly owned (81 %), and managed by public administration (63 %) and by communities (37 %).

Table 2.5.4 Forest Ownership and Management Rights 2005 (%)

Ownership pattern	Public	81
	Private	19
	Other	0
Holders of management rights of	Public administration	63
public forests	Individuals	0
	Business entities and institutions	0
	Communities	37
	Other	0

Source FAO, Global Forest Resources Assessment 2010

Chapter 3 Pollution and Environmental Issues

3.1 Overview

Brazil's environmental is suffering from air and water pollution, land and wetland degradation. The Brazilian rich biodiversity and natural environment are directly threatened by impacts from agriculture and industrialization. Indeed activities linked to timber, development and agriculture are turning down vast proportion of Brazilian forest and therefore taking part in deforestation, one of Brazil's major issues that is a significant source of pollution, biodiversity loss, and greenhouse gas emissions.

Rapid urbanization and industrial development are also increasing air, water, and soil pollution. The population increase forced cities to expand without considering the environmental impacts. Not only infrastructure was built by using products and methods releasing harmful pollution into the air, but also the increase of vehicles took part in the degradation of the air quality. As for the water pollution, the discharge of urban or industrial used water in reservoirs, lakes and river are a big issue in Brazil. The enormous amounts of solid wastes and the lack of proper disposal are also poisoning the soil, air, and water.

Brazil, however, is tackling these issues through its regulations and its different National Policies and Programs in relation with air, water and waste. The real challenge for Brazil remains to manage to make its economic development's interest meet with its environmental responsibility so that it can grow sustainably.

3.2 Regulations and Policies

3.2.1 International Agreements

Brazil ratifies various international conventions and treaties to tackle pollution and environmental issues (see Table 3.2.1).

Table 3.2.1 Major International Agreements signed by Brazil's Government

No.	International Convention and/or Agreements
1	United Nations Framework Convention on Climate Change, ratified in 1994
2	Kyoto Protocol to the United Nations Framework Convention on Climate Change, ratified in
	2002
3	Vienna Convention for the Protection of the Ozone Layer, ratified in 1990
4	Montreal Protocol on Substances that Deplete the Ozone Layer, ratified in 1990
5	Amendment to the Montreal Protocol on Substances that Deplete the Ozone Layer, ratified in
	2004
6	Additional of 9th conference of Montreal Protocol on Substances that deplete the Ozone Layer
7	The Beijing Amendment (1999) to the Montreal Protocol agreed by the Eleventh Meeting of the
	Parties
8	The Basel Convention on the Control of Trans-boundary Movements of Hazardous Wastes and
	Their Disposal, ratified in 1992
9	Stockholm Convention on Persistent Organic Pollutants, ratified in 2004
10	International Convention on Civil Liability for Oil Pollution Damage
11	Convention on the Prevention of Marine Dumping Pollution by Dumping Wastes and Other
	Matter (London Convention)
12	Protocol of 1978 related to the International Convention for the Prevention of Pollution from
	Ships, 1973 (MARPOL)
13	Treaty Banning Nuclear Weapons Tests in the Atmosphere, in Outer Space, and Under Water,
	ratified in 1965.

Source UN 2013

Details on the date of adoption and the date of entry in force of these agreements is summarized in Appendix 1.

3.2.2 Domestic Laws

(1) Overview of Environmental Law and Framework

The primary environmental statutes are the following:

- ·Federal Law 6.938/1981 sets the National Environmental Policy. The National Environmental Policy had expressly established the Environmental Licensing Process and the Civil Liability for environmental damages;
- ·Federal Law 9.433/1997, which states the National Policy on Water Resources and regulates the regime of water use in Brazil;
- ·Federal Law 9.605/1998 is currently the main legal instrument regarding environmental criminal and administrative liabilities, and establishes sanctions applicable to over 60 different crimes against the environment. Federal Decree 6,514/2008, which regulates Federal Law 9,605/1998, provides more than 100 legal rules, violations of which are administratively punishable with warnings, fines, right restrictions, and eventual crime prevision and civil damages;
- · Federal Law 9,966/2000 governs the prevention, control, oversight of oil pollution and others

hazardous substances in Brazilian waters;

- ·Federal Law 9,985/2000 establishes the Protected Areas National System for the protection of biodiversity and represents the main statute on the subject;
- ·Federal Law 12,187/2009 represents Brazil's commitment to addressing greenhouse gas emissions and states the National Program of Climate Change;
- ·Federal Law 12,305/2010 establishes the National Policy for Solid Waste, being the main legal framework regulating obligations on the generation, transport, management and destination of solid waste;
- ·Complementary Federal Law 140/2011 disciplines the hypotheses of shared assignments among the environmental agencies of all federative levels for permitting and enforcement of pollutant activities;
- ·Federal Law 12,651/2012, also known as the New Brazilian Forestry Code, regulates the protection of Legal Forestry Reserves and the Permanent Protected Areas, especially playing a key role in rural areas;
- · Provisional Measure 2,186-16/2001 regulates the access of genetic heritage and its protection for associated traditional knowledge, regulating benefit share conditions and technologic compensation for its use and conservation; and
- · Federal Law 11,105/2005 regulates biosafety of genetically modified organisms (GMOs).

(2) Environmental infractions

In Brazil, concerning pollution and environmental issues, the breaching of environmental laws (described in Chapter 2) may unfold in criminal, administrative, and civil liabilities (see Table 3.2.2).

Table 3.2.2 Liabilities in Relation with Environmental Law Breaches

Environmental	Particularity
Liability	
Criminal	Based upon negligence or fault. In case of absence of these elements, most of the case
	regarding criminal environmental liability can be appealed.
Administrative	10 different penalties applicable (see Table 3.2.3). Depending of the case, proof of
	fault or negligence may not be necessary.
Civil	Subject to the strict liability regime, which imposes liability in spite of fault or negligence. As such, liability requires environmental damage and chain of causality; most decisions regarding breaches of environmental law are appealed upon the non-existence of such elements. In the case of environmental contamination of soil, surface water and groundwater, no guilty has to be proven against the polluter to enforce the obligation of recovering the environment. Once the duty to recover the environment represents a propter rem or in some cases even an in rem obligation, the simple ownership of polluted land and natural resources is subject to environmental civil liability. In other words, the liability is based on status of the contaminated resource, but not on fault of the landowner. Therefore, the current landowner may be deemed liable for repairing environmental damages that already existed at the time of acquisition.

Source latinlawyer.com

The laws, summarized in Table 3.2.3, regulate these environmental liabilities and crimes.

Table 3.2.3 Regulations relevant to Environmental Liabilities and Crimes

Regulation	Descriptions
Federal Law No. 6.938/81	Establishes the principle that those responsible for damage to the environment or any portion of it shall be held liable and be obliged to repair such damages.
Federal Law No. 7.347/85	Regulates Public Civil Suits (Açao Civil Publica) involving responsibility for damages to the environment, stipulating the value of damages and requiring environmental reclamation.
Federal Constitution/88	Establishes Popular Suits (Açao Popular) as a legal tool for defending public assets. Through these suits, the public can request that acts damaging public assets be nullified or declared void and that the authorities be held personally responsible.
Federal Law No 9605/98 (environmental crime law) and Federal Decree No 3179/99	Establishes and regulates the principle that companies, owners, and managers or employees responsible for damages to the environment of any of its parts shall be sued for criminal action, irrespective of civil liability and fines, with sentences including compulsory community service, cancellation of rights (including plant shutdown), ban to enter into contracts with the Government, and up to five years in jail for persons found guilty.

To enforce the environmental laws, the Public Prosecutor at the federal or state levels, as well as any entity legally entitled to file the suit, have a strong participation in file lawsuits claiming environmental civil and criminal liabilities. In the case of administrative liabilities, environmental agencies may use legally established penalties described in Table 3.2.4.

Table 3.2.4 Some Penalties in Relation with Environmental Law Breaches

Type of	Penalties			
infraction				
Administrative	Warnings			
	Fines			
	Apprehension of fauna, flora and their derivatives, or even instruments, vehicles or			
	any other equipment used in violation of law.			
	Destruction of products			
	Suspension of retail and manufacturing			
	Embargo of works and related areas			
	Demolition			
	Suspension of activity and other restraints			
Criminal	Fines			
	Restraints			
	Community Services			
	Prison for directors, managers, members of board, decision makers			
	Suspension of activities			
	Embargo of work			
	Temporary closure			

Source latinlawyer.com

As for criminal penalties, the Federal Law 9,605/1998 lists over 60 different environmental crimes (refer to Annexes A-7 on Environmental Crimes Law for more information).

(3) Law governing the remediation of contaminated property

Table 3.2.5 Standards for Environmental Remediation

Level	Standards	Descriptions
State	IBAMA's Instruction	General directives for the preparation of a Recovering Plan of Damaged Areas (PRAD) usually required by environmental agencies to manage and
	04/2011	recover the environment after the project installation.
Federal	CONAMA Resolution 420/09	To ensure the identification, public disclosure and remediation of contaminated sites. The CONAMA regulation sets out the criteria and guiding principles for checking soil quality for the presence of chemicals and establishes guidelines for environmental management of areas contaminated by such substances as a result of human activities.
National	Brazilian Constitution	Specific obligation for polluter to recover the environment from the damage caused by mineral extraction.

Source latinlawyer.com

(4) Environmental issues related to property transfer, mergers and acquisitions, shutdown or sale of facility

In case of property transfers and/or the sale of a facility or mergers and acquisitions, environmental permits and environmental liability, held by the previous company/or owner are generally transferred to new owners. Therefore, in order to undertake the analysis of all environmental liabilities eventually assumed by the purchaser, it is recommended to analyze the past environmental records of the previous company/or owner, as well as a due diligence proceeding prior to the merger or acquisition. Finally, an environmental clearance certificate from the environmental bodies and public attorneys is very important to contribute with the knowledge of any remaining environmental issues.

In the case of the shutdown of an activity, no specific laws are applicable. However, depending on the activity being shutdown, in order to ensure that the shutdown is being properly executed, and there is no contamination or environmental liabilities whatsoever left behind, authorization from the environmental agency responsible for the permitting procedure may be required.

3.3 Air Pollution

3.3.1 Current Situation

The capitals of the 26 states of Brazil have been greatly affected by air pollution. In urban areas, the atmospheric particles that lead to health problems are common pollutants. This calls for exhaustive studies of mass concentrations and aerosol composition, because elevated concentrations of particulate matter (PM) have been associated with increased morbidity and mortality from cardiovascular and respiratory diseases.

Aerosols are introduced into the atmosphere from a variety of anthropogenic sources, including transport, industrial activities, and biomass burning, as well as from natural sources, such as volcanic eruptions, sea salt, soil dust suspension, and forest fires. Urban pollution is generally composed of coarse and fine particulate matter from mineral dust, combustion processes, sulphur dioxide (SO2), nitrogen oxides, ammonia, volatile organic compounds (VOCs), and carbon (black and organic). The SO2, ammonia, and nitrogen oxides are precursors of the sulfuric acid, ammonium bisulfate, ammonium sulfate, and ammonium nitrate particles that often constitute major fractions of PM2.5 and PM10, which are harmful to the health. Particulate matter, in particular PM2.5, is a growing problem in Brazil. Together with other pollutants such as oxides of nitrogen and sulfur, air pollution can be attributed to the significant increase of industries in the entire country, vehicle numbers as well as rampant deforestation of the Amazon Basin.

As shown in Figure 3.3.1, the temporal variation of PM10 started to decrease after 1991 gradually, and then, finally reached the WHO standards (i.e., 20 ug/m³) in 2009.

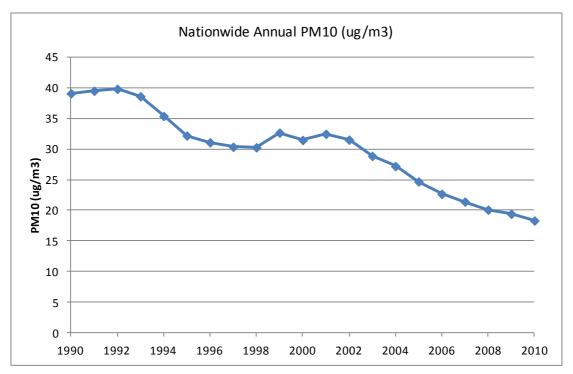


Figure 3.3.1 Level of PM10 *(annual mean) between 1990 and 2010 in Brazil

Note: * Particulate matter concentrations refer to fine suspended particulates less than 10 microns in diameter (PM10) that are capable of penetrating deep into the respiratory tract and causing significant health damage. Data for countries and aggregates for regions and income groups are urban-population weighted PM10 levels in residential areas of cities with more than 100,000 residents. The estimates represent the average annual exposure level of the average urban resident to outdoor particulate matter. The state of a country's technology and pollution controls is an important determinant of particulate matter concentrations.

Source World Bank, 2013

Table 3.3.1 shows the averaged PM2.5 in 6 major Brazilian state capitals in 2010. Sao Paulo, followed by Rio de Janeiro, has the highest level of PM2.5. From this table, it can be se said that the annual mean PM2.5 concentrations observed at five of these six cities exceeded the WHO air quality standard (i.e., 10 ug/m³).

Table 3.3.1 Level of PM2.5 (annual average) in 2010

City	Mean PM2.5 (micrograms per cubic meter)	
Sao Paulo		28,1
Rio de Janeiro		17.2
Belo Horizonte		14.7
Curitiba		14.4
Porto Alegre		13.4
Recife		7.3

Source Urban air pollution: a representative survey of PM2.5 mass concentrations in 6 Brazilian cities

Figure 3.3.2 shows that emission loading of the nitrous oxide in Brazil. As shown in this figure, the order of the magnitude of NO loading from agricultural sector is dominant whereas not for both industrial and energy sectors. Also, it can be seen that the nitrous oxide emission loading has kept on increasing during 1990 and 2010.

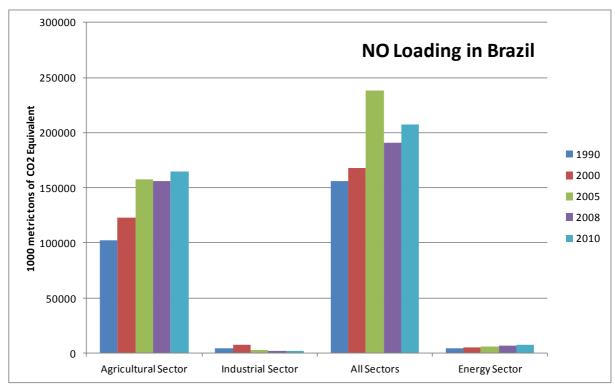


Figure 3.3.2 Nitrous Oxide emissions in Brazil

Source World Bank, 2013

3.3.2 Relevant Laws and Organisations

In Brazil, ambient air quality policies are created by the CONAMA. Passed in August 1990, federal CONAMA Resolution No. 005/89 established a National Air Quality Program (PRONAR). The passing of Federal CONAMA Resolution No. 003/90 established air quality standards, sampling methods, and quality levels. National air quality limits are only to be used in absence of local ambient air quality standards. Within CONAMA Resolution 003/90, primary standards mark the limit of concentrations at which human health would be impacted. Secondary standards are concentrations, which if not exceeded, cause the minimum adverse impact on human health, flora and fauna, materials, and the general environment. Primary standards are applicable until states designate Air Quality Classes within their territory. Table 3.3.2 summarizes key resolutions related to air pollution control in Brazil.

Table 3.3.2 Key Resolutions related to Air Pollution Control

Resolution	Description
CONAMA Resolution 05 in 1989	Established the National Program of Air Quality Control.
CONAMA Resolution 03 in 1990	Established air quality standards, sampling methods, and
	quality levels.
CONAMA Resolution 08 in 1990	Set the maximum limits of emissions for external combustion
	processes.
CONAMA Resolution 267 in 2000	In relation with The use of substances designated as regulated
	substances by the Montreal Protocol on Substances that Deplete
	the Ozone Layer.
CONAMA Resolution 382 in 2006	In relation with the inspection of air quality

One of the main instruments of environmental management aiming to protect the public health and human activity in Brazil is the National Program of Air Quality Control (PRONAR), established by the CONAMA Resolution 05/89 in 1989 under the Environment National Advisory Board. Within the framework of the PRONAR, the following strategies were defined:

- To define the maximum values of a set of pollutant;
- To adopt the national air quality standards;
- To monitor the air quality;
- To manage and give permission to the air pollution source;
- To produce National Surveys of sources and air pollutant;
- To develop policy and management tools;
- To promote air quality technology, science and capacity building.

Then, in 1990, the CONAMA Resolution 3/90 established air quality standards, sampling methods, and quality levels. National air quality limits are only to be used in the absence of local ambient air quality standards. Table 3.3.3 shows the national air quality standards. It is noted that no relevant environmental bylaws and/or code at state and/or municipality level are not recognized within this study. There is possibilities that some states or municipalities already established/or are under the preparation of relevant codes.

Table 3.3.3 Brazil's Air Quality Standard

			•		
Pollutant	Limit (µg/m	3)	Sampling t	ime	WHO standard
	Primary	Secondary ²			$(\mu g/m^3)$
TSP	80	60	Annual geo	ometric mean	
	240*	150*	24 hr		
Smoke	60	40	Annual geo	ometric mean	
	150*	100*	24 hr		
Inhalable Particles	50		Annual	arithmetic	20 for PM10,
			mean		10 for PM2.5
	150*		24 hr		50 for PM10
					25 for PM2.5
SO2	80	40	Annual	arithmetic	
			mean		
	365*	100*	24 hr		
CO	10,000 (9 pp	m)*	8 hr		
	40,000 (35 p	40,000 (35 ppm)*			
O3	160*		1 hr		
NO2	100		Annual	arithmetic	
			mean		
	320	190	1 hr		

Notes: * Not to be exceeded more than once per year

Source CONAMA Resolution 3/90, transportpolicy.net

Table 3.3.4 summarizes the atmospheric emission standards, implemented in Brazil. It is noted that Class I is the areas of conservation, leisure and tourism, such as national and/or state parks, reserves and ecological stations, resorts and other important areas. These ecologically important

¹ Primary standards mark the limit of concentrations at which human health would be impacted.

² Secondary standards are concentrations, which if not exceeded, cause the minimum adverse impact on human health, flora and fauna, materials, and the general environment.

areas must keep an air quality as close as possible to the place without the anthropogenic intervention. Class II is the areas where the level of air quality deterioration is limited by the secondary standard of quality. Class III is the areas of development where the level of deterioration of air quality is limited by the primary standard of quality. Similar to air quality standards, the relevant environmental bylaws and/or code at state and/or municipality level are not recognized within this study. There is possibilities that some states or municipalities already established/or are under the preparation of relevant codes.

Table 3.3.4 Brazil's Atmospheric Emission Standards

Pollutant	Classes of Areas				
	Class	Other Class I	Class II	Class III	
	(Conservation	(Resort Areas)			
	Units)				
Source with less	than 70 Mw				
SO2	NA	2,000g/106 Kcal	5,000g/106 Kcal	5,000g/106 Kcal	
Total	NA	120g/106 Kcal	350g/106 Kcal -	350g/106 Kcal -	
particulate		_	oil	oil	
matter (TPM)			1,500g/106 Kcal -	1,500g/106 Kcal -	
			coal	coal	
Smoke	NA	20% Ringelman 01	20% Ringelman	20% Ringelman	
(Opacity)		_	01	01	
Source with mor	re than 70 Mw				
SO2	NA	NA	2,000g/106 Kcal	2,000g/106 Kcal	
TPM	NA	NA	120g/106 Kcal -	120g/106 Kcal -	
			oil 8000g/106	oil 8000g/106	
			Kcal – coal	Kcal – coal	
Smoke	NA	NA	20% Ringelman	20% Ringelman	
(Opacity)			01	01	

Note: NA: Not Allowed Source CONAMA 03/90

The CONAMA Resolution 8/90 was approved to set the maximum limits of emissions for external combustion processes.

Currently, the main relevant regulation is the 2006 CONAMA Resolution 382. This resolution specifies that all state governments in Brazil are in charge of inspecting the air quality, and currently, most of them have their own air quality control system and regulations. This resolution has also set up emission standards for industrial processes.

Moreover, there are 12 persistent organic pollutants (POPs, commonly known as the dirty dozen), whose production and use was prohibited in Brazil by Federal Decree 5,472/2005. These are: Aldrin, chlordane, mirex, dieldrin, DDT, dioxins, furans, polychlorinated biphenyls (PCBs), endrin, heptachlor, toxaphene and hexachlorobenzene (HCB). The use of substances designated as regulated substances by the Montreal Protocol on Substances that Deplete the Ozone Layer are prohibited in systems, equipment, facilities and new products, whether domestic or imported (Article 2, CONAMA Resolution No. 267/2000).

There are also specific state laws that identify certain areas that are considered to have reached saturated concentration levels of specific air pollutants, and therefore cannot be further exposed

to any of these pollutants.

Penalties for environmental crimes related to the air pollution include the imprisonment of one to four years, plus fines. Administrative penalties include fines ranging from BR\$ 5,000 to BR\$ 50 million. In a worst-case scenario, if a plant cannot adapt or modify its equipment to comply with the law, there are provisions to shut down these establishments.

3.3.3 Approaches and Efforts

In Brazil, air quality monitoring activities were started in 1972 (MS, 2005). For instance, CETESB, the Environmental Agency of the São Paulo State, started the air quality monitoring in the Metropolitan Region of São Paulo and in Cubatão, due to the alarming air pollution caused by the industry, mainly the petrochemical. Currently, most of states are conducting continuous urban air quality monitoring as well as several private companies are also conducting continuous air quality monitoring works.

The Clean Air Institute, an NGO created in 2006 to improve air quality, established the Clean Air Initiative for entire Latin America. It is a multi-stakeholder partnership of government agencies, NGOs, academic institutions, development agencies aiming to:

- Support common goals for improving air quality and reducing greenhouse gas and Short-Lived Climate Pollutants emissions in LAC countries;
- Provide a framework for identifying, implementing, monitoring and evaluating policy options and measures;
- Facilitate information sharing, dissemination of good practices, and alliance building;
- Build institutional and technical capacity;
- Increase access to financial and investment opportunities for implementing CO₂ reduction actions:
- Enhance opportunities for innovative solutions.

Brazil is also part of the Sustainable Transport and Air Quality (STAQ) program of the Clean Air Institute, which runs from 2009 to 2013. This program was funded by the Global Environmental Facility (GEF) through the World Bank and is executed by the Clean Air Institute with national and local institutions from Brazil. The high level objective of the STAQ Program is to reduce the growth of GHG emissions generated by urban transport in Brazil by promoting more energy-efficient and cleaner transport modes.

Beside, Brazil is part of the US-Brazil Joint Initiative on Urban Sustainability containing a policy and projects related to transportation and the air quality. Rio de Janeiro is benefiting from this initiative.

3.4 Water Pollution

3.4.1 Current Water Use and Its Contamination Situation

(1) Nationwide Water Use

Brazil is known as a country of vast amount of water, with the highest total renewable fresh water supply of the planet (12 %). However, the estimated figure of 6,950 km³/year in the fresh water is to be viewed as merely an indicator of the average country's situation. In fact, 70 % of such availability is in the Amazon Basin where only 7 % of the population lives. The rest 93 % of the country's population must depend on the remaining 30 % of the water availability. The 'per capita' availability varies from 1,460 m³/person/year in the semi-arid North-East to 634,887m³/person/year in the Amazon region.

The North, including the Amazon basin with abundant freshwater resources, is very sparsely populated and poor. The North-East, semi-arid with a constant threat of severe droughts, struggles to sustain a population of 40 million people living in oppressive poor conditions. Cattle raising activities and intensive agriculture development dominate the West, with two dominating ecosystems, the savanna and the wetlands. The South is where the industrial and financial centers are located, with its water resources under a very unbalanced supply/demand relationship, due to excessive consumption and pollution of the large urban areas.

In each region, water is a fundamental resource and a critical issue in Brazil. The highest consumptive water use is for irrigation, which is about 54 % of the total, followed by urban water supply amounting 28 %. The potential area for irrigated agriculture is in the order of 26 million hectares, of which some 25 % is actually developed, meaning that food production is highly dependent on water availability. Irrigation is developed by private and public initiatives. Table 3.4.1 summarizes the current water use condition of Brazil.

Table 3.4.1 Water Use Information of Brazil

Indicator	Definition	Value	Year
Total actual	The maximum theoretical yearly amount of water actually available	42,604	2009
renewable	for a country at a given moment (TARWR) per capita. It takes into	m ³ /inhab/	
water	consideration the long-term average annual flow of rivers and	yr	
resources	recharge of aquifers generated from endogenous precipitation, the		
per capita	flow of bordering rivers and lakes, and the water inflow and		
	outflow secured by treaties.		
Percent of	Total freshwater withdrawn in a given year, expressed in percentage	0.71%	2006
freshwater	of the total actual renewable water resources (TARWR). This		
resources	parameter is an indication of the pressure on the renewable water		
withdrawn	resources.		
Municipal	Amount of water withdrawn by the municipal sector as a percent of	27.95%	2006
water	all the water withdrawn by the three main water withdrawing		
withdrawal	sectors (agriculture, municipalities, industry). Municipal water		
as percent of	withdrawal includes withdrawal of renewable freshwater resources		
total	as well as the possible over-abstraction of renewable groundwater		
withdrawal	or withdrawal of fossil groundwater and use of desalinated water or		
	treated wastewater. It is usually computed as the total water		
	withdrawn by the public distribution network, plus domestic self-		
	abstraction. It can include that part of the industries, which is		
Y 1 . 1 1	connected to the municipal network.	17 460/	2006
Industrial	Amount of water withdrawn by the industrial sector as a percent of	17.46%	2006
water	all the water withdrawn by the three main water withdrawing		
withdrawal	sectors (agriculture, municipalities, industry). Industrial water		
as percent of	withdrawal includes withdrawal of renewable water resources as		
total withdrawal	well as the possible over-abstraction of renewable groundwater or		
withdrawai	withdrawal of fossil groundwater and use of desalinated water or		
	treated wastewater. This sector refers to self-supplied industries not		
	connected to the public distribution network, including		
A arrigultural	thermoelectric cooling, but not including hydropower. Amount of water withdrawn by the agricultural sector as a percent	54.59%	2006
Agricultural water	of all the water withdrawn by the three main water withdrawing	34.39%	2000
water	sectors (agriculture, municipalities, industry). More specifically,		
as percent of	agricultural water withdrawal is the annual quantity of water		
total	withdrawn for irrigation, livestock watering and aquaculture		
withdrawal	purposes. It includes withdrawal of renewable freshwater resources		
Williamwai	as well as the possible over-abstraction of renewable groundwater		
	or withdrawal of fossil groundwater, direct re-use of return water		
	and desalinated water.		
Percent of	The proportion of the population (total, urban and rural) with	98%	2010
population	sustainable access to an "improved" water source. It is the		
with access	percentage of the population who use any of the following types of		
to improved	water supply for drinking: piped water, public tap, borehole or		
water	pump, protected well, protected spring or rainwater. Improved		
sources	water sources do not include vendor-provided water, bottled water,		
	tanker trucks or unprotected wells and springs.		
Percent of	Proportion of the urban and rural population with access to	79%	2010
population	improved sanitation refers to the percentage of the population with		
with access	access to facilities that hygienically separate human excreta from		
to improved	human, animal and insect contact.		
sanitation			
Source UN-Water	r, FAO-AQUASTAT, JMP (Joint Monitoring Programme)		

(2) Water Quality Degradation

One of important environmental issue in Brazil is the discharge of used water into reservoirs, rivers and lakes. When the used water is not properly treated before its discharge (as is frequently the case), it would cause serious water quality degradation problem for other activities which depends on the clean water.

The multiple uses of water in Brazil, together with the economic development of the country, have generated conflicts in the following areas:

- Water use in agriculture and the supply of water for urban areas;
- Public supply of water has been affected due to an increase of agribusiness production and deforestation, which have affected areas of recharge of aquifers, and water quality at their sources:
- Expansion of urban non treated solid waste disposal and the water quality of surface and ground water;
- Expansion of hydroelectricity impact in the tributaries of the Amazon River and disruption of the hydro-social cycle;
- Heavy contamination by toxic metals, eutrophication, excessive use of fertilizers in agriculture, discharge of non-treated domestic water and costs of water treatment;
- Increase in the cost of treatment of water due to the degradation of the sources, deforestation, and contamination of aquifers;
- Impacts of degraded water on human health, mainly in urban and metropolitan regions.

The present situation of water quality in Brazil is a consequence of several impacts, which resulted from the following situations:

- Urbanization and discharge of non-treated waste water in rivers, lakes and reservoirs;
 (UNESCO, UNEP, 2008);
- Inadequate disposal of solid waste, which impacts the surface and the ground waters;
- Agricultural activities with excessive use of fertilizers, pesticides and herbicides;
- Industrial activities with effluents containing toxic metals; deforestation and the increase of transportation of suspended material reducing the volume of the reservoirs, changing the morphology of the rivers and the natural lakes; mining activities degrading the surface and ground waters; production of hydroelectricity and construction of reservoirs which change river flows, river biodiversity and are the cause of several impacts on major watersheds such as the Paraná, São Francisco and the Amazon River tributaries.

As a consequence of the several economic activities and the multiple uses of water, the main problems of water pollution and contamination are: the increase of toxicity of the surface and ground waters; the eutrophication of rivers and reservoirs with excessive growth of toxic cyanobacteria causing organic contamination of water sources, especially near the large urban centers and metropolitan regions; siltation; and emission of greenhouse gases from eutrophic waters.

3.4.2 Relevant Laws and Organizations

Water resources management is a key element of Brazil's strategy to promote sustainable growth and a more equitable and inclusive society. Brazil's achievements over the past 70 years have been closely linked to the development of hydraulic infrastructure for hydroelectric power generation and just recently to the development of irrigation infrastructure, especially in the Northeast region. The intention of reforming Brazil's water resources management system began to shape during the 1970s when other water users challenged the priority given to hydropower. In 1997, the Federal Government approved the 1997 National Water Law (No. 9433) aimed at incorporating modern water resources management principles and instruments into Brazil's water resources management system. National Water Authority was created in 2000 aimed at implementing the National Water Law Federal Law 9984/2000). Tables 3.4.2 and 3.4.3 summarize water pollution-related laws and regulations at Federal and State-Level of Brazil, respectively. Table 3.4.4 summarizes CONAMA's water – related Resolution. Water Quality-related standards of Brazil are summarized in Table 3.4.5.

Table 3.4.2 Laws relevant to Water Pollution

No	Name of the	Description
	Regulation	
1	Federal Law 9433/97 (Water	Established the National Policy on Water Resources, according to which the granting of use of water resources aims to ensure the quantitative and qualitative
	Law)	control of water use and the effective exercise of rights concerning access to water. It has also created the National Water Resource Management System (SINGREH).
2	Decree 2612 in 1998	Established the bylaws of the National Water Resources Council (CNRH)
3	Decree 2619 in 1998	Water Resources and the Legal Amazon Region.
4	Federal Law 9984/2000	Established the National Water Agency (ANA).

Source National Water Agency, Hydrological Monitoring Network

Table 3.4.3 State water resources legislation

Ctata	Laws on Water Description Management Delice
State	Laws on Water Resources Management Policy
Alagoas	Law # 5.965 of 10 November 1997 establishes the State Water Resources Policy and
7.11	the State Integrated Water Resources Management System and makes other provisions.
Bahia	Law # 6.855 of 12 May 1995 establishes the State Water Resources Policy,
	Management and Plan and makes other provisions.
Ceara	Law # 11.996 of 24 July 1992 establishes the State Water Resources Policy and the
	Integrated Water Resources Management System (SIGERH) and makes other
	provisions.
Distrito	Law # 512 of 28 July 1993 establishes the Water Resources Policy for the Distrito
Federal	Federal, creates the Integrated Water Resources Management System (SGIRH-DF) and
	makes other provisions.
Espirito Santo	Law # 5.818 of 30 December 1998 establishes the State Water Resources Policy,
	institutes the Integrated Water Resources Management System of the State of Espírito
	Santo (SIGERH/ES) and makes other provisions.
Goias	Law # 13.123 of 16 July 1997 establishes the State Water Resources Policy and makes
	other provisions.
Maranhao	Law # 7.052 of 22 December 1997 establishes the State Water Resources Policy and
	the Integrated Water Resources Management System and makes other provisions.
Mato Grosso	Law # 6.945 of 5 November 1997 establishes the State Water Resources Policy and the
	Integrated Water Resources Management System and makes other provisions.
Minas Gerais	Law # 13.199 of 29 January 1999 establishes the State Water Resources Policy and
	makes other provisions.
Paraiba	Law # 6.308 of 2 July 1996 establishes the State Water Resources Policy, defines its
1 ururou	guidelines and makes other provisions.
Parana	Law # 12.726 of 26 November 1999 establishes the State Water Resources Policy and
1 urunu	the State Water Resources Management System and makes other provisions.
Pernambuco	Law # 11.426 of 17 January 1997 establishes the State Water Resources Policy, State
1 cmamouco	Water Resources Plan and Integrated Water Resources Management System and makes
	other provisions.
Piaui	Law # 5.615 of 17 August 2000 establishes the State Water Resources Policy and the
1 laui	Integrated Water Resources Management System (SIGERH) and makes other
	provisions.
Rio de Janeiro	Law # 3.239 of 2 August 1999 establishes the State Water Resources Policy and the
Rio de Janeiro	State Water Resources Management System, regulates § 1Q, Paragraph VII, Article 261
	of the State Constitution and makes other provisions.
Rio Grande Do	Law # 3 6.908 of 1st July 1996 establishes the State Water Resources Policy and the
Norte	Integrated Water Resources Management System (SIGERH) and makes other
None	provisions.
Rio Grande Do	Law # 10.350 of 30 December 1994 establishes the State Water Resources Policy,
Sul	regulating Article 171 of the Rio Grande do Sul Constitution.
Santa Catalina	
Santa Catanna	Law # 9.748 of 30 November 1994 establishes the State Water Resources Policy and
C D1-	makes other provisions.
Sao Paulo	Law # 7.663 of 30 December 1991 establishes guidelines for the State Water Resources
G	Policy and the Integrated Water Resources Management System.
Sergipe	Law # 3.870 of 25 September 1997 establishes the State Water Resources Policy and
	the Integrated Water Resources Management System (SIGERH) and makes other
L	provisions.
Course Metional W	ater Agency Hydrological Monitoring Network

Source National Water Agency, Hydrological Monitoring Network

Table 3.4.4 Water Resolutions, issued by CONAMA

			· · · · · · · · · · · · · · · · · · ·
	Laws/Regulations		Descriptions
1	CONAMA 20/1986	Resolution	Sets water quality standards for water bodies by their proposed use, classifying inland waters into seven types.
2	CNRH 16/2001	Resolution	Sets forth that the granting of the right to use water for industrial discharge will be given in amount of water needed to dilute the pollutant load, which can vary over the timetable of the grant, and shall be based on the standards of water quality corresponding to the class of the receiving watercourse and specific criteria defined in the relevant water resources plan or by relevant agencies.
3	CONAMA 357/2005	Resolution	Conditions and standards for discharge of wastewater, which must be complied with.

Table 3.4.5 Effluent Discharge Standards

Parameter	CONAMA 020/86 limits	World Bank limits
pН	5.0 < pH < 9.0	6-9
Temperature	< 40°C (not to generate a variation of	(not to generate a variation of
	more than 3°C)	more than 3°C)
Settling Matter	1.0 mg/l in 1 hour "lmhoff" test	50 mg/l
Oil and Grease	20 mg/l	10 mg/l
(mineral)		
DBO (Oxygen	60 mg/l	50 mg/l
Demand)		
Residual Chlorine	NR	0.2 mg/l
Total phosphates	NR (but not to exceed 0.025 P outside the	NR
	mixing zone)	
Nitrates	10 mg/l	NR
NH4	5.0 mg/l	10 mg/l
Cadmium	0,2 mg/l	0,1 mg/l
Lead	0.5 mg/l	0.1 mg/l
Copper	1.0 mg/l	0.5 mg/l
Hexavalent Chromium	0.5 mg/l	0.1 mg/l
Chromium	2.0 mg/l	0.5 mg/l (total)
Phenol	0.5 mg/l	0.5 mg/l
Soluble Iron (Fe2+)	15.0 mg/l	3.5 mg/l
Fluoride	10 mg/l	20 mg/l
Soluble Manganese	1.0 mg/l	NR
(Mn2+)		
Nickel	2.0 mg/l	0.5 mg/l
Sulfite	1.0 mg/l	NR
Zinc	5.0 mg/l	1 mg/l

Note: NR: Not Regulated Source CONAMA 020/86

The National Policy on Water Resources sets out the following uses of water resources, which are subject to licensing by public authorities (Article 12, I, Federal Law No. 9,433/1997)¹:

- 1. The collection of water in a watercourse for final consumption, including public supply, or input into the production process.
- 2. The extraction of water from an underground aquifer for final consumption or input into the production process.
- 3. The release of water sewage and other liquid or gaseous waste in the watercourse, treated or untreated, with the purpose of dilution, transport or disposal.
- 4. The exploitation of hydroelectric potential.
- 5.Other uses that alter the system, the quantity or quality of water existing in a watercourse.

Every license must be:

- Specific to uses as set out in water resource plans. Water resource plans are management instruments established for the planning of multiple uses of water. They set out priorities, actions, programmes and projects and aim to harmonize the uses of water with the preservation of water resources. The water resource plan is developed with the participation of public, state and municipal governments and civil society, which provides guidelines for implementing the Policy on Water Resources
- Observe the class in which the body of water is included and maintenance of

¹ Practical Law, http://us.practicallaw.com/2-508-8459#a625624

- appropriate waterway transportation, if applicable.
- Issued through an Act by the appropriate federal, state or federal district executive authority (see Table 3.4.6 for more detailed information).
- The relevant environmental licensing authority for the operation of the activities governs water quality and related discharges of effluent into river courses. However, water quantity is controlled by federal or state water agencies through separate water permits.

Pursuant of the Federal Law 9.433 (National Water Policy), following five essential instruments for good water use management were established:

- 1. The National Water Resources Plan, which constitutes the basic programming document for the water sector and a comprehensive document updating and consolidating the Water Resources Master Plans, which are drawn for each catchment basin.
- 2. Granting rights to use water resources, which is the instrument whereby users are granted authorization, concession or permission to use water. It is the main control element of rational water use, since it induces users to discipline water utilization.
- 3. Charges for water use, essential to create the conditions for a balance between supply (water availability) and demand and, thus, promote harmony among competing users.
- 4. Classification of bodies of water in usage categories, creating a link between water quality and quantity management. It is extremely important to set up a surveillance system focusing on the quality of water sources.
- 5. National Water Resources Information System, in charge of gathering, organizing, analyzing, and disseminating the water resources database, water resources uses, water balance in each source and basin, providing managers, users and civil society the information required in the decision making process.

Table 3.4.6 summarizes agencies, established by the new system.

Table 3.4.6 Water Resources Management Bodies

	Organization	Major Functions
1	National Water	1
	Resources Council	administrative terms, in charge of deciding major issues and judging major
		conflicts
2	The National Water	
	Resources	Resources Council.
	Secretariat	
3	The National Water	Independent agency legally liable for implementing the National Water
	Agency (ANA)	Resources Management System and linked to the MMA (refer to the Annex in
		the Appendix to have further understanding of ANA's attribution)
4	Catchment Basin	Managing public goods in Brazil, with the participation of users, local
	Committees	governments, organized civil society, other levels of government (state and
		federal), selected to take decisions in each catchment basin level.
5	Water Agencies	Main purpose is to manage the funds resulting from water use charges
6	Civil Water	
	Resources	participation in the decision-making and water use monitoring processes.
	Organizations	

The following activities are considered breaches of use of surface or underground water resources (Article 49, I, Federal Law No. 9,433/1997):

- Extracting or using water for any purpose without the proper grant of use rights.
- Beginning deployment or deploying an enterprise related to extracting or using of surface or underground water resources, involving changes to their quantity, quality, characteristics or regime without a grant from the competent authorities.
- Using water resources, or performing work or services related to them, violating the conditions of the grant.
- Drilling wells to extract groundwater or operating them without proper authorization.
- Fraudulently measuring the volume of water used or declaring different values measured.
- Violating federal laws, including instructions and procedures established by public authorities.
- Obstructing or hindering the activities of the supervisory authorities while they are performing their functions.

As for penalties, the absence of a water license allowing for interference with watercourses or with underground water is deemed to be an administrative breach and generally can result in fines of between BR\$ 100 and BR\$ 10,000. However, pollution to water resources can be fined by up to BR\$ 50 million, depending on the extent of the damage.

3.4.3 **Approaches and Efforts**

In Brazil, about 18,000 water quality monitoring stations exist and about 6,000 of them are operated by ANA (note that Amazon region is not well covered by ANA due to logistical difficulties). During 1970s, water quality degradation due to industrial activity began to start, but those problems were mitigated by improving effluent treatment system, required for industrial sector by law and by establishment of comprehensive nation-wide water quality monitoring network (ANA, personal communication, 2014).

To celebrate the World Water Day² and the International Year of Water Cooperation, in 2013, MMA and ANA have launched the Consolidation Program of the National Pact for Water Management (PROGESTÃO). The action will make BR\$ 100 million available, in next the five years, for the states that reached the goals agreed between the federal government and states.

The Program for Development of the Water Sector (INTERÁGUAS) is a Brazilian effort to attempt to pursue a better articulation and coordination of initiatives of the Water Sector. In other words, it creates an environment where the areas involved with the use of water may articulate and plan their actions in a rational and integrated way, in order to contribute to the strengthening of planning and management in the Water Sector, especially in the less developed

² In 1993, the United Nations General Assembly declared March 22nd as the World Water Day and since then it has been observed. The UN and its member nation devote this day to implement recommendations and promote concrete activities within their countries regarding the world's water resources.

regions of the country.

The River Basin Clean-up Program (PRODES), created in 2001, aims to reduce the levels of pollution by domestic sewage in Brazilian watersheds, improving the water quality, in particular those which pose serious problems of water pollution caused by the disposal of sewage without treatment.

The Water Producer Program, designed by ANA in 2001, has as its main objective the environmental regeneration of watersheds with the payment for environmental services for conservation actions concerning water and soil in rural environment, which is reflected in the quantity and the quality of the water that reaches the cities. With different institutional arrangements, the Water Producer already has about 20 projects in progress throughout Brazil.

The National Program of Water Quality Evaluation (PNQA), developed by the National Water Agency, aims to increase the knowledge about the quality of surface water resources in Brazil, in order to guide the elaboration of public policies for the recovery of environmental quality in water bodies such as inland rivers and reservoirs, thus contributing to the sustainable management of water resources. The construction of a National Network of Water Quality Monitoring is in progress to be operated by the states with the coordination of ANA. In addition, the Program provides training, quality improvement of laboratories carrying out analysis of water, evaluation and periodic dissemination of the results obtained with the monitoring and standardization of parameters and procedures.

3.5 Soil Pollution

3.5.1 Current Situation

Concerning the soil pollution related to urban solid waste, almost 60 % of waste disposal sites in Brazil are open dump sites with no infrastructure for environmental protection. It is usual to find uncovered waste. The rainwater runs off over the uncovered top of the waste dump and may contaminate surrounding soil.

Concerning hazardous waste, according to ABETRE (Brazilian Association of Hazardous Waste Treatment) Brazil generates nearly 3 million tons of it each year, mainly in the South and South-East³. The number of landfills capable of handling special waste is insufficient and costs of incineration are high.

Official estimates put the number of contaminated sites in Brazil at 15,000. In 2013, CETESB,

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³ UK Trade & Investment, Sector briefing: Brazil opportunities in Environment & Water, 2010)

Sao Paulo State Environment Agency), identified the existence of 4,572 contaminated sites in the state, representing a 10% increase in relation to 2012.

3.5.2 Relevant Laws and Organisations

At federal level, CONAMA Resolution 420/09 establishes a standard procedure that aims to ensure the identification, public disclosure and remediation of contaminated sites. The regulation sets out the criteria and guiding principles for checking soil quality for the presence of chemicals and establishes guidelines for the environmental management of areas contaminated by such substances as a result of human activity.

At state level, for most of the Brazilian states a specific legislation does not exist for the subjects that involve contaminated land. The existing environmental legislation offers a base referring to different aspects of the problem. However, the IBAMA issued Instruction 04/2011, which establishes the general directives for the preparation of a Recovery Plan for Damaged Areas. This environmental remediation activity is usually required by environmental agencies to manage and restore the environment after project installation.

In addition, Sao Paulo State Law 13577/09 was passed in order to ensure that contaminated sites in the region are subject to adequate identification, public disclosure and remediation. This law promotes guidelines and procedures for the protection of the quality of the soil against noxious alterations by contamination. In accordance with this law, CETESB is responsible for the planning and management of the process of identification, registration and rehabilitation of contaminated sites.

Furthermore, in relation to mining activities, the Constitution provides a specific obligation for polluters to restore the environment following the damage caused by mineral extraction.

Table 3.5.1 summarizes relevant soil and groundwater quality standards, implemented in Brazil.

Table 3.5.1 Environmental Standards for Soil and Groundwater Contamination

	Soil (Mg.kg-1 of dry weight) (1)					Groundwater (µg.L-1)
Substances	0 114	Ovelity Investigation			Investigation	
	Quality Reference	Prevention	Agricultural APMax	Residential	Industrial	
Inorganic						
Aluminum	Е	-	-	-	-	3,500**
Antimony	Е	2	5	10	25	5*
Arsenic	Е	15	35	55	150	10*
Barium	Е	150	300	500	750	700*
Boron	Е	-	-	-	-	500
Cadmium	E	1.3	3	8	20	5*
Lead	Е	72	180	300	900	10*
Cobalt	E	25	35	65	90	70
Copper	E	60	200	400	600	2,000*
Chrome	Е	75	150	300	400	50*
Iron	E	-	-	-	-	2,450**
Manganese	Е	-	-	-	-	400**
Mercury	Е	0.5	12	36	70	1*
Molybdenum	Е	30	50	100	120	70
Nickel	E	30	70	100	130	20
Nitrate (As N)	Е	-	-	-	-	10.000*
Silver	Е	2	25	50	100	50
Selenium	E	5	-	-	-	10*
Vanadium	E	-	-	-	1000	-
Zinc	Е	300	450	1,000	2,000	1,050**
Volatile Aromatic Hydrocarbons						
Benzene	n/a	0.03	0.06	0.08	0.15	5*
Styrene	n/a	0.2	15	35	80	20*
Ethyl benzene	n/a	6.2	35	40	95	300**
Toluene	n/a	0.14	30	30	75	700**
Xylenes	n/a	0.13	25	30	70	500**
Aromatic polycyclic Hydrocarbo	ons					
Anthracene	n/a	0.039	-	-	-	-
Benzo (a) anthracene	n/a	0.025	9	20	65	1.75
Benzo (k) fluoranthene	n/a	0.38	-	-	-	-
Benzo (g, h, i) Perylene	n/a	0.57	-	-	-	-
Benzo (a) pyrene	n/a	0.052	0.4	1.5	3.5	0.7*
Chrysene	n/a	8.1	-	-	-	-
Dibenzo (a, h) anthracene	n/a	0.08	0.15	0.6	1.3	0.18
Phenanthrene	n/a	3.3	15	40	95	140
Indeno (1,2,3 - cd) pyrene	n/a	0.031	2	25	130	0.17
Naphthalene	n/a	0.12	30	60	90	140

Source CONAMA 420/09

Table 3.5.1 Environmental Standards for Soil and Groundwater Contamination (continued)

	Soil (Mg.kg-1 of dry weight) (1)					Groundwater (µg.L-1)
Substances	014		Investigation			
	Quality Reference	Prevention	Agricultural APMax	Residential	Industrial	
Chlorinated Benzenes						
Chlorobenzene (Mono)	n/a	0.41	40	45	120	700**
1,2-Dichlorobenzene	n/a	0.73	150	200	400	1000
1,3 -Dichlorobenzene	n/a	0.39	-	-	-	_
1,4-Dichlorobenzene	n/a	0.39	50	70	150	300
1,2,3 -Trichlorobenzene	n/a	0.01	5	15	35	(a)*
1,2,4 -Trichlorobenzene	n/a	0.011	7	20	40	(a)*
1,3,5 -Trichlorobenzene	n/a	0.5	-	-	-	(a)*
1,2,3,4-tetrachlorobenzene	n/a	0.16	-	-	-	
1,2,3,5-tetrachlorobenzene	n/a	0.01	-	-	-	-
1,2,4,5-tetrachlorobenzene	n/a	0.01	-	-	-	-
Hexachlorobenzene	n/a	0.003(3)	0.005	0.1	1	1*
Chlorinated ethanes	•		•			
1,1-Dichloroethane	n/a	-	8.5	20	25	280
1,2-Dichloroethane	n/a	0.075	0.15	0.25	0.50	10*
1,1,1-Trichloroethane	n/a	-	11	11	25	280
Chlorinated ethenes						
Vynil Chloride e	n/a	0.003	0.005	0.003	0.008	5*
1,1-Dichloroethan	n/a		5	3	8	30*
1,2-Dichloroethene-eis	n/a	-	1.5	2.5	4	(b)
1.2-Dichloroethene - trans	n/a	-	4	8	11	(b)
Trichloroethylene - TCE	n/a	0.0078	7	7	22	70*
Tetrachloroethylene - PCE	n/a	0.054	4	5	13	40*
Chlorinated Metanes						
Dichloromethane	n/a	0.018	4.5	9	15	20*
Chloroform	n/a	1.75	3.5	5	8.5	200
Carbon Tetrachloride	n/a	0.17	0.5	0.7	1.3	2*
Chlorinated Phenols						
2-Chlorophenol (o)	n/a	0.055	0.5	1.5	2	10.5
2,4-Dichlorophenol	n/a	0.031	1.5	4	6	10.5
3,4-Dichlorophenol	n/a	0.051	1	3	6	10.5
2,4,5-Trichlorophenol	n/a	0.11	-	-	-	10,5
2,4,6-Trichlorophenol	n/a	1.5	3	10	20	200*
2,3,4,5-tetrachlorophenol	n/a	0.092	7	25	50	10.5
2,3,4,6-tetrachlorophenol	n/a	0.011	1	3.5	7.5	10,5
Pentachlorophenol (PCP)	n/a	0.16	0.35	1.3	3	9*

Source CONAMA 420/09

Table 3.5.1 Environmental Standards for Soil and Groundwater Contamination (continued)

	Soil (Mg.kg-1 of dry weight) (1)					Groundwater (µg.L-1)
Substances	01:4		Investigation			Investigation
	Quality Reference	Prevention	Agricultural APMax	Residential	Industrial	8
Non-Chlorinated Phenols						
Cresols -	n/a	0.16	6	14	19	175
Phenol	n/a	0.20	5	10	15	140
Phtalic Esters						
Bis(2-ethylhexyl) phthalate (DEHP)	n/a	0.6	1.2	4	10	8
Dimethyl phthalate	n/a	0.25	0.5	1.6	3	14
n-Dibutyl phthalate	n/a	0.7	-		-	-
Organochlorine Pesticides						
Aldrin	n/a	0.015	0.003	0.01	0.03	(d)*
Dieldrin	n/a	0.043	0.2	0.6	1.3	(d)*
Endrin	n/a	0.001	0.4	1.5	2.5	0.6*
DDT	n/a	0.010	0.55	2	5	(c)*
DDD	n/a	0.013	0.8	3	7	(c)*
DDE	n/a	0.021	0.3	1	3	(c)*
Beta HCH	n/a	0.011	0.03	0.1	5	0.07
Gamma-BCH - (Lindane)	n/a	0.001	0.02	0.07	1.5	2*
PCBs						
TOTAL	n/a	0.0003 (3)	0.01	0.03	0.12	3.5

Note:

(1) - For comparison with guiding values, use the recommendations of the methods 3050b (Except for the element mercury) or 3051 of USEPA SW-846- or another equivalent procedure for acid digestion of samples of soils in determining inorganic substances by spectrometric techniques.

E - to be defined by the State.

n/a - does not apply to organic substances.

- (a) summation for trichlorobenzenes = $20 \mu g.L-1$.
- (b) summation for 1, 2 dichloroethenes; = $50 \mu g.L-1$.
- (c) summation for DDT DDD DDE = $2 \mu g.L-1$.
- (d) summation for Aldrin and Dieldrin = $0.03 \mu g.L-1$.

Source CONAMA 420/09

3.6 Solid Waste

3.6.1 Current Situation

According to the National Policy for Solid Waste, solid waste is defined as any "material, substance, object disposed resulting from human activities in society, whose final destination is carried, it is proposed to proceed or is obliged to carry, in solid or semisolid as well as gases and liquids in containers whose characteristics make it infeasible its launch in public sewers or water bodies, or require for that solutions technically or economically infeasible in the face of the best available technology." Table 3.6.1 summarizes the typical composition of urban solid

^{*} Potability Standards of chemicals that represent a risk to health defined in the Ordinance nr 518/2004 of the Ministry of Health (Table 3).

^{**} Values calculated based on risk to human health, according to the scope of this Resolution.

Differ from the standards of acceptance for human consumption defined in the Ordinance nr. 518/2004 of the Ministry of the Health (Table 5) and of the maximum values allowed for human consumption defined in the Annex I of the Resolution CONAMA nr 396/2008.

wastes. Table 3.6.2 summarize total daily amount of solid wastes, generated at all municipalities in Brazil. Table 3.6.3 summarizes the number of municipalities with landfill sites. Table 3.6.4 summarizes the number of municipalities implementing waste segregation program within their waste collection system.

Table 3.6.1 Composition of urban solid waste (total value) in Brazil

Wastes	Amount (ton/day)	(%)
Recyclable Material	58,527	21.5
Metals	5,294	1.9
Steel	4,214	1.5
Aluminium	1,080	0.4
Paper, cardboard, tetrapak	23,997	8.8
Plastic Total	24,848	9.1
Plastic film	16,400	6.0
Hard Plastic	8,448	3.1
Glass	4,389	1.6
Organic matter	94,335	34.7
Other	30,619	11.3
Total	272,151	100.0

Source MMA, 2012

Table 3.6.2 Municipal solid waste (total value) by types of disposal in Brazil

Type of disposal	2000 Quantity (t/d)	2000 (%)	2008 Quantity (t/d)	2008 (%)
Landfill	49,615	35.4	110,044	58.3
Controlled garbage dump	33,854	24.2	36,673	19.4
Open garbage dump	45,485	32.5	37,361	19.8
Composting plant	6,365	4.5	1,520	0.8
Material recovery facilities	2,158	1.5	2,592	1.4
Incineration	483	0.3	65	< 0.1
Garbage dump on wetlands	228	0.2	35	< 0.1
Places not fixed	877	0.6	SI	=
Other units	1,015	0.7	525.20	0.3
Total	140,081		188,815	

Source Brazilian Institute of Geography and Statistics (IBGE)

Table 3.6.3 Number of Municipalities with landfill sites

Regions	Number of Municipalities	Population x 1,000,000
North	37	2.3
North-East	97	15.3
Central-West	62	4.4
South-East	534	51.4
South	282	14.6
Total	1112	87.8

Source MMA, National Basic Sanitation Research (Pesquisa Nacional de Saneamento Basico - PNSB), 2008

Table 3.6.4 Number of Municipalities where there are waste segregation programs

Regions	Number of Municipalities	Population x 1,000,000
North	16	1.1
North-East	57	10.5
Central-West	27	2.1
South-East	335	37.6
South	235	7.0
Total	670	58.4

Source MMA, SNIS 2007

Considering that Brazil has a total of 5,564 municipalities, only 12 % of the municipalities have a waste segregation program and 20 % of them have a landfill.

3.6.2 Relevant Laws and Organisations

Brazil is part of the Basel Convention since 1992. Therefore Brazil is committed to control trans-boundary movements of hazardous wastes and their disposal. The competent Authority putting into force the Basel Convention is the IBAMA with the focal point that is the Division of Environment Policy and Sustainable Development of the Ministry of Foreign Affairs.

Moreover, at the national level, the following legislation, regulations and guidelines concerning reduction and/or elimination of hazardous waste and solid waste generation are in force in Brazil (see Tables 3.6.5 and 3.6.6).

Table 3.6.5 Laws relevant to hazardous waste and solid waste

	Table 5.0.5 Laws relevant to nazardous waste and sond waste			
No	Name of the	Description		
	Regulation			
1	Federal Law	Sets up the Solid Waste National Policy. This Law also defines hazardous		
	12,305/2010	substances are as flammable, corrosive, reactive, toxic, pathogenic,		
		carcinogenic, mutagenic or teratogenic, representing significant risk to		
		public health or any other environmental feature. Therefore, all activities		
		that generate hazardous substances are bound to prepare a plan for the		
		management of solid waste, while its environmental permit shall only be		
		granted upon the proof of economic capacity for supporting all risks and		
		obligations arising from the proper management and disposal of such waste. The liability of generator, transporter and processor for the correct		
		destination of solid waste is also foreseen.		
2	Federal Decree	Regulates the National Policy on Solid Waste.		
	7,404/2010	regulates the Ivanolial Policy on Solid Waste.		
3	Federal Decree	Pro-Scavenger Decree.		
	7,405/2010	110 Seavenger Decision		
4	Federal Law	Basic Sanitation		
	11,445/2007			
5	CONAMA	Relevant to sewage sludge.		
	Resolution 375/2006			
	and 380/2006			
6	Federal Law	Public Consortia		
	11,107/2005			
7	CONAMA	Relevant to Liquids effluents		
	Resolution 357/2005 CONAMA	Relevant to Health Care Wastes		
8	Resolution 358/2005	Relevant to Health Care Wastes		
9	CONAMA	Relevant to Lubricant oil or contaminated		
9	Resolution 363/2005	Relevant to Euroreant on or containmated		
10	Federal Law	Relevant to Agro toxic		
	7802/1989 and	Title to rigio tome		
	Regulation			
	4074/2002			
11	Resolution	Sets forth that civil construction wastes contaminated with asbestos is		
	CONAMA 307/2002	classified as hazardous wastes and must be handled properly and sent for		
		adequate disposal.		
12	CONAMA	Relevant to tires		
	Resolution 258/1999			
10	and 301/2002			
13	CONAMA	Aims to dispose of asbestos. Civil construction waste contaminated with		
	Resolution 307/2002	asbestos is classified as hazardous waste, and must be properly handled and		
1.4	COMANA	sent for adequate disposal.		
14	CONAMA Resolution 313/2002	National Inventory of Industrial Solid Wastes.		
15	CONAMA	Thermal treatment of wastes system.		
13	CONAMA	THEITHAI HEATHEIR OF WASTES SYSTEM.		

	Resolution 316/2002	
1.0		D-1
16	CONAMA	Relevant to Pile and Battery.
	Resolution 257/99	
17	Resolution	Co-processing of wastes
	CONAMA 264/1999	
18	Resolution	Wastes of ports, airports and rail/bus terminal
	CONAMA 05/1993	* * *
	and Resolution	
	CONAMA 06/1991	
19	Resolution	Ban importation of wastes for incineration and final disposal
	CONAMA 08/1991	
20	Resolution	Treatment and final disposal of deteriorated, contaminated, out of
	CONAMA 02/1991	specification or abandoned cargoes
21	CONAMA	Creates 3 classes of residues:
	Resolution 006/88	Class I: hazardous,
		Class II: non-inert,
		Class III: inert.
		Establishes solid wastes inventories to be submitted to the environmental
		authorities for both new and existing activities.
22	CONAMA	Relevant to the mitigation of asbestos
	Resolution	Č
	348/2004, 09/1988	
	and 7/1987	
23	Resolution	Hazardous wastes transportation
	CONAMA 1A/1986	1
24	Federal Minter	Establishes that projects for the final treatment and disposal of solid wastes
	Resolution 053/79	are subject to approval by the competent State Agency.

Source Basel Convention, Country Fact Sheet

Table 3.6.6 Standards relevant to Solid Waste

No	Name of the	Description
	Standard	
1	ABNT	Classifies solid waste as Class I (Hazardous), Class IIA (Non-Inert), and Class IIB (Inert),
	Standard NBR	according to their potential risks to the environment and public health, ensuring proper
	No. 10.004/87	handling and disposal of these solid wastes. It is noted that solid waste Class I (hazardous)
		encompassing waste that is hazardous due to its physical, chemical or infectious-contagious
		properties and that may present (1) a public health hazard, causing mortality, incidence of
		disease or increasing rates of such or (2) risk to the environment if the waste is managed improperly. Class II A waste (non-inert) may exhibit properties of biodegradability,
		flammability, and water solubility, and class II B waste (inert) is any waste that, when
		sampled in a representative manner and subjected to dynamic and static contact with distilled
		or deionized water at room temperature, has none of its constituents solubilized at
		concentrations above the standard for water portability, except for appearance, color,
		turbidity, hardness and taste. ⁴
2	ABNT	Establishes requirements for toxicity leaching tests for classifying solid wastes.
	Standard NBR	
	No. 10.005/87	
3	ABNT	Establishes the requirements for differentiating between non-inert (Class II) and inert (Class
	Standard NBR	III) wastes, applicable only to wastes in a solid state.
	No. 10.006/87	
4	ABNT	Establishes the solid wastes sampling requirements.
	Standard NBR	
	No. 10.007/87	
5	ABNT	Establishes the requirements for the design and operation of hazardous wastes landfills.
	Standard NBR	
	No. 10.157/87	

In Brazil, according respectively to Articles 21 and 30 of the Federal Constitution, the National Government gives guidelines for urban development, including sanitation, and the

Municipalities organize and provide, directly or by concession or permission, the public services of local interest. Several industries, amounting almost 200 now, have been awarded with the ISO 14000 series certification and are implementing Cleaner Production and Ecoefficiency Programs. There are now initiatives and actions for reduction of waste production in the industrial process.

On environmental management of specials wastes, there is a political agreement signed within MERCOSUL considering universal generation and extended producer responsibility.

The Environmentally Sustainable Management of Tires is also awaiting the Presidential Staff Office decision to be sent to the National Congress.

The Federal Law 12,305 established the Solid Waste National Policy in 2010 and in the same time a deadline for States and Municipalities to prepare their own solid waste plans as a condition to receive federal financial resources for implementing landfills in available areas. It is a set of principles, objectives, instruments, guidelines, goals and actions to be adopted by the National Government itself or by its partners with states, municipalities, federal district and private actors of the society aiming an integrated and environmentally sound management of the solid waste.

An inter-ministerial committee was created by the decree No. 7,404 in 2010 to support the structuring and implementation of the Solid Waste National Policy, through the articulation of the organs and government agencies, to enable compliance with the targets set out in the Federal Law 12,305 and the Decree 7,404. There are 10 Ministries and 2 organs of the Presidency of the Republic (Casa Civil, Institutional Relations Secretariat) that is part of this committee. This inter-ministerial committee work in 2011 on:

- Plans and other aspects of the Solid Waste National Policy,
- Energy recovery from Urban Solid Waste,
- Tributary desoneration and incentives,
- · Hazardous Solid Waste,
- Information system.

The Solid Waste National Policy has established the several goals for the reduction of waste disposal at landfills (see Table 3.6.7).

Table 3.6.7 Waste Disposal Reduction at Landfills

Disposal Reduction at landfills	2015	2019	2023	2027	2031
Most favourable goal (%)	70	70	70	70	70
Intermediate goal (%)	31	44	54	63	67
Least favourable goal (%)	22	26	29	32	36

Source National Solid Waste Plan, 2012

According to the Article 9 of this policy, the priorities of non-generation, reduction, reutilization, recycling, solid waste treatment, environmentally sound disposal shall be observed when managing solid waste. This Article emphasizes that technology for the energy recovery of urban solid waste may be used, provided that environmentally feasibility are insured and a emissions-monitoring program approved by the relevant environmental authority had been implemented. The Article 54 mentions that in compliance with the provisions of the Article 9, final environmentally adequate waste disposal shall be implemented up to 4 years after the date of publication hereof.

At the states and municipalities level, there are various supports to develop plans for solid waste:

- Agreements with states to develop studies for regionalization and prepare Inter-municipal Solid Waste Plans since 2007.
- Publication of guidelines for the preparation of the Ministry of Environment's State Plans Solid Waste.
- Partnership with the British Embassy to issue guidelines to Municipal Plans.
- Public call from October, 21th 2011 to support the State Plans, Metropolitan Plans, Microregion Plans, and Plans of selective Waste Collection Programs.

Table 3.6.8 summarizes the cost for the preparation of solid waste municipal, inter-municipal, and state plans within the framework of the Solid Waste National Policy.

Table 3.6.8 Analysis of support for Development of Solid Waste Plans

	Types of Plans	Number of Municipalities,	Cost for Preparation of
		Consortium or States	Plans (R\$)
Custom	Solid Waste Municipal	5,564	961,320,000
Solutions	Plans		
	Solid Waste State Plans	26	41,280,000
	Total	5,590	1,002,600,000
Solutions with	Solid Waste inter-	344	190,680,000
associations of	municipal plans		
municipalities	Solid Waste State Plans	26	41,280,000
	Total	370	231,960,000

Source: MMA, 2011

Solid Waste Municipal Plan and State Plan have been required for the second part of 2012. Municipalities, which have implemented selective collection with the participation of waste collectors, and inter-municipal consortia, have the higher priority to have access to resources, incentives, and financing from the union for actions relating to solid waste.

The main responsibilities of Municipalities, specified within the Solid Waste National Policy, are as follows:

- Preparation and implementation of Municipal Solid Waste Plan,
- Implementation of the sustainable selective collection with scavengers (and composting systems),
- Elimination of the dumps.

3.6.3 Recycling Systems (Reverse Logistics)

Reverse logistics can be defined by a flow of surplus or unwanted material, goods, or equipment back to the firm, through its logistics chain, for reuse, recycling or disposal. In the reverse logistics deployed by the Solid Waste National Policy, the sector agreement and the shared responsibility for the life cycle of the product are two important concepts. The sector agreement is a contract to be signed by the government and manufacturers, importers, distributors, or dealers, aiming to implement the shared responsibility for the life cycle of products. The shared responsibility for the life of the products is a set of individualized and interconnected assignments of the manufacturers, importers, distributors and traders, consumers and holders of urban cleaning public services and solid waste management. It aims to minimize the generation and volume of solid waste as well as reducing the impacts resulting from the product life cycle to the human health and the environmental quality.

In the framework of the Solid Waste National Policy, reverse logistics have been deployed in the following product chains:

- Pesticides, their packaging and waste,
- Lubricating, their packaging and waste,
- Tyres,
- All sort of batteries,
- Several sorts of fluorescent lamps,
- Electronic equipment and their components (Waste Electrical and Electronic Equipment Directive).

A guiding committee is making decision for the reverse logistics implementation. It is a council of Ministries composed by MMA, MS, the Ministry of the Industry and Foreign Trade Development (MDIC), the Ministry of Finance (MF), and the Ministry of Agriculture (MA). Its structure is shown in Figure 3.6.1.

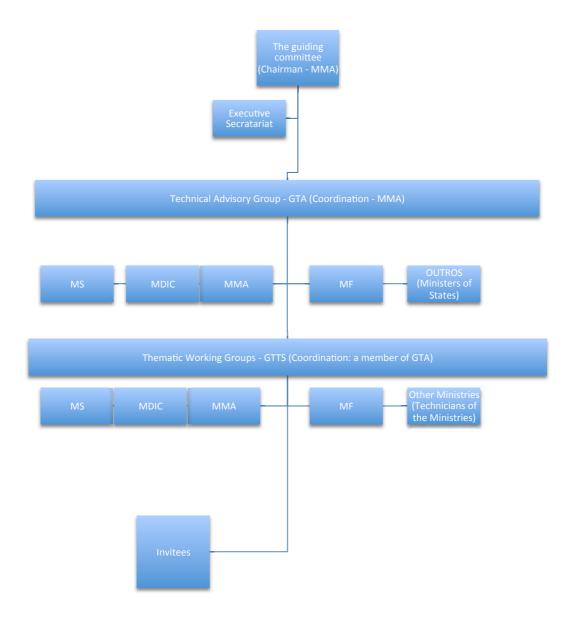


Figure 3.6.1 Structure of Guiding Committee for Reverse Logistics Implementation Source: MMA, 2011

5 thematic working groups were created to study technical and economic feasibility of reverse logistic and write the edict calling for the development of the proposed sector agreement. The first meeting to initiate the work occurred on May, 5th 2011. The themes studied by these working groups are as follows:

- Disposal of Medicines coordinated by the Ministry of Health,
- Packaging in General coordinated by the Ministry of Environment,
- Packaging and Waste Lubricating Oils coordinated by the Ministry of Agriculture,
- · Fluorescent lamps, lamps of sodium vapour and mercury and mixed light lamps

- coordinated by the Ministry of Environment,
- Waste of Electric Electronic Equipment (WEEE) coordinated by the Ministry of Development, Industry, and Foreign Trade.

3.6.4 Waste Segregation Programmes

In the framework of the Solid Waste National Policy, waste segregation programmes, which will give an opportunity for scavengers to be appreciated and more integrated, are implemented. For example, there is a federal program to support municipalities to structure the selective collection, preferably with the inclusion of organizations of scavengers. Funds are transferred following a contract with the Caixa Economica Federal (CEF – A Federal Bank).

3.7 Noise and Vibration

3.7.1 Current Situation

The increasing number of living people and vehicles in big cities has led to the appearance of a new environmental subject in Brazil, i.e., noise pollution. In Brazil, the urban noise issue still has not obtained enough attention. However, some researchers have showed the problem of environmental noise in major cities such as Sao Paulo, Rio de Janeiro, Belo Horizonte and Porto Alegre. Regarding the vibration, no environmental standard exist in Brazil.

3.7.2 Relevant Laws and Organisations

Table 3.7.1 summarizes noise-related law and regulations of Brazil. Table 3.7.2 summarizes the classification of noise, based on ISO. Noise standards, implemented in Brazil, are established based on ISO (see Table 3.7.3).

Table 3.7.1 Laws relevant to Noise pollution

Name of the	Description
Law	-
CONAMA Resolution 001/1990	Includes the problems of excessive noise levels in the control of environmental pollution. Defines nationwide criteria for noise emissions evaluation according to the ABNT (Brazilian Association of Technical Standards) and to the National Traffic Council (CONTRAN. Noise levels are considered acceptable, thus determined by ABNT: NBR 10151 - Assessment of the level of noise in populated areas to ensure the comfort of the community and NBR 10152 - Noise levels for acoustic comfort. The first set noise levels for outdoor, outdoors, while the second set noise levels for indoor environments. In noise control is considered the location, time and nature of activities broadcasters to match the performance of activities with the preservation of health and public peace.
CONAMA Resolution 002/1990	Establishes the National Education and Control Noise Pollution - Silence Program and empowers the State and Municipal Government to impose stricter limits on noise emission. This program aims to teach and educate the public and train technicians to receive complaints and take action to combat noise pollution, and encourage the production of equipment with lower noise intensity, being coordinated by the Brazilian Institute of Environment and Natural Resources (IBAMA)
CONAMA Resolution 001 and 002/1993	Considering that excessive noise causes damage to physical and mental health and particularly affects hearing and considering the need to reduce noise pollution in urban centers, whereas propelled road vehicles are major sources of noise in the environment, whereas the use of appropriate technologies and known, allows needs to control noise pollution. Considering the objectives of the National Education and Control noise Pollution has established noise limits for motor vehicles on acceleration and on condition that stopped.

Table 3.7.2 Noise Classification

Standard	Class	Descriptions
ISO 1996	Environmental	Noise from all sources, located near or distant (traffic noise, birds,
	noise	machines, etc.).
	Particular noise	The noise source is under investigation. It is a component of ambient noise and can be identified and linked to a specific source.
	Residual noise	The ambient noise is not the particular noise. It is the noise in one place, under certain conditions, when the specific source of noise is eliminated.
	Initial noise	It is the noise at some point before changes occur. Ex: before the construction of barriers or implementing some industry.
	Background noise	Terminology used to describe the measured noise level when the specific source is not audible and sometimes has the value of a parameter of noise, such as L90.
ISO 2204/1973	Continuous noise	It is one whose change in sound intensity level is very small with respect to time. Noises are characteristic of liquid pumps, electric motors, gears, etc. Ex: rain, refrigerators, compressors, fans, etc.
	Noise floating	It is one that presents large variations of level versus time.
	Impulsive noise or impact	Have high levels of loudness in a very small time interval. Noises from explosions and impacts. Noises are characteristic of riveters, automatic printers, crushers, presses, etc.

Source ISO 1996, ISO 2204/1973

The NBR 10 151 (2000) specifies a method for measuring noise where, according to the characteristics of noise, corrections are set to the levels measured.

Table 3.7.3 Noise level limits (Maximum acceptable Leq*, dBA)

	Brazilian NBR 10151		World Bank	
	Day**	Night**	Day**	Night**
Urban/Residential area	50	45	55	45
Industrial Area	70	60	70	70

Note: *: Equivalent Noise Level, defined as constant noise levels with same acoustic energy as level of the real noise level non-stable, varying during the time of measurement.

Source CONAMA Resolution 001, 1990

A comparison between the fixed and the level of discretion standard as established by admissible indicates if the sound level is in the range tolerable or whether measures are needed to reduce it. Table 3.7.4 summarizes day and night time noise standards, implemented in Brazil.

Table 3.7.4 Level of evaluation criteria NCA Outdoor

Type of Daytime areas	Daytime (dB (A))	Night time (dB (A))
Areas of ranches and farms	40	35
Strictly urban residential area of hospitals or schools	50	45
Mixed area, mostly residential	55	50
Mixed area, a commercial and administrative	60	55
Mixed area with recreational vocation	65	55
Predominantly industrial area	70	60

Note: - If the ambient noise is greater than the table value, Oz takes the value of ambient noise;

3.8 Climate Change

3.8.1 Current Situation

(1) Temperature

Over the period 1960-2010 there was warming in the northern, eastern and southern regions of Brazil for both summer (December to February) and winter (June to August). There has been a general increase in winter temperatures averaged over the country, making the occurrence of relatively warm winter temperatures more frequent and cold winter temperatures less frequent. As for night time temperatures, the southern part of Brazil (the region where there is daily temperature data) show a decreasing frequency of cool nights and an increasing frequency of warm nights. The World Meteorological Organization (WMO) highlighted two events, the heat waves during 2006 and the extreme cold of 2010 as examples of extreme temperature events.

^{**} The NBR 10151 (2000) states that the day and night periods can be set by the authorities according to the habits of the population. However, the night period shall begin no later than 22:00 hours and should not end before 7:00 am. In the case of Sundays and holidays the end of the evening should not be earlier at 9:00 am.

⁻ The level corrected for a noise without special features is determined by the sound pressure level equivalent continuous (LAeq);

⁻ When the impulsive noise has characteristics and impact level must be corrected measured maximum level plus 5 dB (A);

⁻ When the noise level have tonal characteristics will be corrected LAeq plus 5 dB (A);

⁻ For noise characteristics that present both impulsive or impact as tonal characteristics, the adjusted level should be determined by applying the above procedures and by taking the largest value found. Source NBR 10151, 2000

(2) Precipitations

Between 1960 and 2003 there has been a small increase in annual total precipitation over Brazil but variations are linked to natural inter-annual and decadal variability, rather than climate change. The WMO highlighted the 2010 drought and the April 2009 flood as two extreme precipitation events in Brazil.

(3) Carbon Dioxide Emissions

Figure 3.8.1 shows the time variation of nation-wide CO_2 emission loading of Brazil. As shown in this figure, the national CO_2 emission loading remains to be low until 1970s. Then, gradual increases started to occur around early 1970s. After 1990, there is a sharp increase in CO_2 emissions.

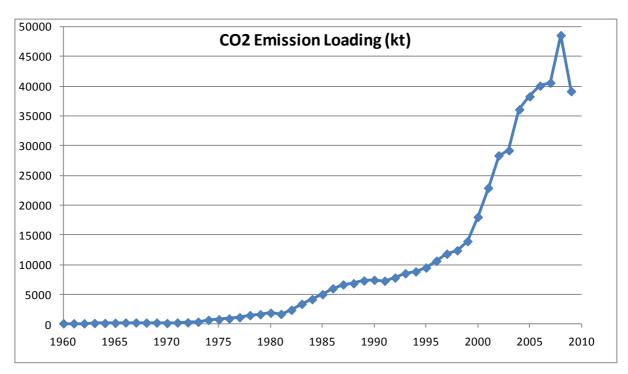


Figure 3.8.1 Annual Carbon Dioxide Emissions (kt) in Brazil, 1960-2009

Source: index mundi, http://www.indexmundi.com/facts/brazil/co2-emissions

3.8.2 Relevant Laws and Organisations

On the international level, Brazil ratified the United Nations Framework Convention on Climate Change (UNFCCC) in 1992 and the Kyoto Protocol in 2002. The Brazilian agency in charge of coordinating the implementation of commitments under the UN Framework Convention on Climate Change is known as CIDES, the Inter-ministerial Commission for Sustainable Development (Comissão Interministerial para o Desenvolvimento Sustentável), through its

Climate Change Coordination Office, linked to the Ministry of Science and Technology. In addition to CIDES, which is in charge of preparing Brazil's National Communications for the UN Framework Convention on Climate Change, an Inter-ministerial Commission on Global Climate Change (Comissão Interministerial de Mudança Global do Clima), was created with the purpose of articulating the federal-governmental actions under the UN Framework Convention on Climate Change and subsidiary instruments to which Brazil is a party. On the national level, several decrees and laws are implemented to address the climate change (see Table 3.8.1).

Table 3.8.1 Laws relevant to Climate Change

Name of the	Description
Regulation	
Federal Decree	Established the Brazilian Forum on Climate Change (Forum Brazileiro de
3515/2000	Mudanças Climaticas - FBMC) aiming to raise awareness and mobilize society
	to discuss and make decisions about the impact of gas emissions due to human activities intensifying the greenhouse effect.
Federal Law	Sets forth the National Policy on Climate Change, through which the country
12,187/2009	undertakes to reduce greenhouse gas emissions by up to 38.9 per cent by the
	year of 2020.
Federal Decree	
6263/2007	ministerial sobre Mudança do Clima – CIM), which is responsible for preparing
	the National Policy on Climate Change and the National Climate Change Plan.
Federal Decree	It provides for the creation of Sector Plans to apply actions, indicators and
7390/2010 along with	targets to reduce emissions and mechanisms to verify compliance. Sector Plans
the Clean	were established to enable the enforcement of the National Policy on Climate
Development	Change. It also promotes renewable energy generation and decrease of
Mechanism	deforestation.

Source latinlawyer.com, Inter-Ministerial Committee on Climate Change

The President of the Republic heads the FBMC. Its members are Ministers of State, Presidents of Regulatory Agencies, and State Secretaries for the Environment, representatives from the Business Sector, Civil Society, Universities and Non-Governmental Organizations.

The Comite Inter-ministerial sobre Mudança do Clima (CIM) is coordinated by the Office of the President of the Republic, and consists of seventeen federal bodies and the FBMC. Basically, the CIM consists of the Ministry of Agriculture and Supply, the Ministry of Science and Technology, the Ministry of Defense, the Ministry of Education, the Ministry of Finance, the Ministry of National Integration, the Ministry of Health, the Ministry of Cities, the Ministry of External Relations, the Ministry of Mines and Energy, the Ministry of Agrarian Development, the Ministry of Development, Industry and Foreign Trade, the MMA, the Ministry of Planning, the Budget and Planning, the Ministry of Transport, and the Strategic Issues Secretary of the Presidency of the Republic.

The responsibility for the preparation, implementation, monitoring and evaluation of the National Plan on Climate Change was assigned to the Executive Group on Climate Change (Grupo Executivo sobre Mudança do Clima – GEx), under the auspices of CIM, which is coordinated by the MMA.

Alongside the consultations within the government itself, the Decree No. 6263/2007 created public consultation processes with the aim of guaranteeing transparency in the Plan preparation process and popular participation through the contributions of interested agents. The process included very important public consultations: the III National Conference on the Environment and the meetings of the Brazilian Climate Change Forum called 'Sector Dialogues'.

3.8.3 Approaches and Efforts

(1) Clean Development Mechanism

Since the Kyoto Protocol was signed in 2005, there has been an increasing interest by companies and potential investors in designing projects aimed at the reduction of greenhouse gas emissions. As a non-Annex I country, Brazil's involvement in the international climate change initiatives is through the Clean Development Mechanism (CDM).

Under the UNFCCC provisions, Brazil has cumulated so far 1,335,955,415 Certified Emission Reduction (CER) credits. However at present, Brazil does not have a legal framework regulating carbon emission trading. Therefore, CERs cannot be traded on Brazilian stock market because there is no law classifying CERs as securities. To stimulate the generation and sales of carbon credits, the Brazilian Market of Certified Emission Reduction was created in Brazil, in the Futures and Commodities Exchange (Bolsa Mercantil e de Futuros - BM&F), as an agreement between the BM&F and the Ministry of Development, Industry, and Trade. The authority that regulates this market is the Brazilian Securities and Exchange Commission (Comissão de Valores Mobiliários - CVM). This entity has already authorized the city of São Paulo to trade certified emission reductions generated at the Bandeirantes waste landfill on the BM&F.

A complete list of past and current CDM projects in Brazil is summarized in Appendix 7. The national authority responsible for authorizing and approving participation in CDM projects is the Brazilian Ministry of Science, Technology and Innovation. Many on-going and planned CDM projects in Brazil are expected to result in the emission reductions of approximately 400.482 Mt CO₂eq by 2020. Of the more than 300 proposed and active CDM projects, over half relate to biomass energy or methane avoidance, with hydroelectric projects also making up a significant share.

Concerning the governance of Brazil's Clean Development Mechanism, Brazil's focus on GHG-emission reductions and legislative compliance, rather than the sustainable development criteria of the Clean Development Mechanism, arises from, and aligns with, the confluence of Brazil's environment–development discourses from Brazil's 1964–1985 military dictatorship and its subsequent return to democratization. The Brazilian Inter-ministerial Commission on Global

Climate Change's regulatory behavior enables greater enforcement of socio-environmental criteria included in environmental licenses and otherwise arising from Brazilian environmental law, by withholding Clean Development Mechanism project status from projects that are not in compliance with the environmental licenses covering their main economic activity. This illustrates the on-going evolution of Brazilian environmental regulation to address broader elements of Brazil's environment—development discourses. Sustainable-development issues that are not addressed in environmental licenses are addressed as procedural issues rather than substantive issues, which align historically with similar evolving environment—development interfaces in post-1985 Brazil. As Brazil moves toward a post-2012 climate regime, the prominence of broader sustainable development issues in Brazil's 40(a) Compliance Assessment⁵ (or any similar assessment arising from any successor mechanism) will probably co-vary with the continued development of a multi-stakeholder dialog among a stronger, more informed Brazilian civil society, more capable local government actors and federal regulators, and generally as a result of increased institutional capacity among Brazilian regulators.

(2) National Plan on Climate Change

The Brazilian National Plan on Climate Change is an important milestone for the integration and harmonization of public policies, following the general guidelines of the National Policy. The Plan is based on the work of the Inter-ministerial Committee on Climate Change and its Executive Group, established in 2007 to fulfill that purpose, in collaboration with other institutions such as the Brazilian Forum on Climate Change, Inter-ministerial Commission on Global Climate Change, the III National Conference on the Environment and the State Forum on Climate Change, and civil society organizations.

1) Principles

According to this plan, to stimulate a better performance in the economic sectors, based on best practices will be a way to reduce the carbon content of Brazilian GDP. Furthermore, efforts are also required in the area of energy efficiency and energy conservation, as a way of reducing consumption, preventing additional electricity generation and reducing the emissions of greenhouse gases. The main actions to manage this stimulation and reduction of GHGs are as follows,

• To implement a National Policy on Energy Efficiency that will result in a gradual energy saving up to 106 TWh/year to be reached in 2030, avoiding emissions of around 30 million tons of CO₂ in that year.

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⁵ Domestic approval of Kyoto Protocol Clean Development Mechanism projects pursuant to paragraph 40(a) of the Marrakesh Accords, whereby the host country Designated National Authority must issue a Letter of Approval certifying that the proposed Clean Development Mechanism project activity assists the host country in achieving sustainable development.

- To increase the consumption of sustainable charcoal to replace coal in steel plants, mainly through the encouragement of forestation in degraded areas.
- To replace one million old fridges per year, for 10 years, with the collection of 3 million t CO₂ eq/year of CFCs (gases that also deplete the ozone layer).
- To encourage the use of water solar power heating systems, reducing electricity consumption in 2,200 GWh per year by 2015.
- To replace refrigerant gases, which will make possible to avoid emissions of 1,078 billion t CO₂ eq of HCFCs between 2008 and 2040 according to estimations;
- To phase out the use of fire for clearing and cutting of sugarcane in areas where harvesting mechanization can take place.
- To give incentives for sustainable practices concerned with the recovering of a large part
 of the current 100 million ha of degraded pasture; carbon sinks via crop-livestock
 integration, agro-forestry or; adoption of zero tillage system and reduction in the use of
 nitrogenous fertilizers; and the organic enrichment of pasture to reduce methane
 emissions by cattle raising.

Brazil will keep the high share of renewable energy in the electric matrix by achieving the following actions to mitigate GHGs,

- To increase electricity supply from cogeneration, mainly from sugarcane bagasse, to 11.4% of the total supply in the country, in 2030, corresponding to 136 TWh;
- To reduce non-technical losses in the electricity distribution at a rate of 1,000 GWh per year over the next ten years;
- To add new hydropower plants to the system in accordance with the schedule of works of the 10 Year Energy Plan (2007-2016);
- To increase the share of energy from wind and sugarcane bagasse in the electric matrix through specific projects of renewable energy;
- To seek for the expansion of the national photovoltaic industry and the use of this energy source in systems that are isolated.

Brazil will encourage the sustainable increase in the share of biofuels in the national transport matrix and also work towards the structuring of an international market of sustainable biofuels. In order to achieve that goal, the following actions will be achieved:

- To encourage industry to achieve an average annual ethanol consumption increase of 11% in the next 10 years;
- To do researches on biodiesel;
- To implement a National Agro-Energy Plan aiming to carrying out research, development, innovation and the transfer of technology to guarantee agro-energy chains sustainability and competitiveness;

To stimulate an international ethanol market by cooperating with other countries with a
high potential for growing sugarcane to expand the offer of ethanol, making it more stable
and balanced.

Brazil will also seek for sustained reduction deforestation rates, in all Brazilian biomes, in order to reach zero illegal deforestation and will eliminate the net loss of forest coverage by 2015. Therefore the main actions will be:

- To implement the National Public Forests Register to identify public forests to be protected, preserved and managed.
- To implement the Action Plan for the Prevention and Control of Deforestation in the Legal Amazon region and similar plans in other biomes to reduce deforestation, involving partnerships between federal bodies, state governments, city governments, civil society organizations and private sector.
- To implement the Deforestation Monitoring Program for the Caatinga, Cerrado, Mata Atlantica, Pampa and Pantanal Biomes.
- To strengthen the environmental enforcement.
- To raise financial resources through the Amazon Fund nationally and internationally for the reduction of deforestation, sustainable use and conservation, especially in the Amazon forest.
- To finance actions through the Climate Fund to prevent deforestation.
- To strengthen the productive chains for Non-timber forest products.
- To revise the current banking requirements to make forestation and reforestation activities more attractive, including areas for charcoal production.
- To stimulate the recovering of degraded areas that belong to legal reserves or areas of permanent preservation.
- To provide information about all of the country's forests through the National Forest Inventory.
- To develop forestry products for fuel application.
- To give a concession of public forests for the management and exploitation of forestry products and services in a sustainable form.
- To prevent the use of illegal timber in the building industry.

Finally, Brazil will strengthen inter-sector actions concerned with the reduction of the vulnerabilities of populations and will identify the environmental impacts resulting from climate change and stimulate scientific research that can trace out a strategy that can minimize the socio-economic costs of the country's adaptation.

2) Reducing Emissions from Deforestation and Forest Degradation (REDD) program

At the domestic level, Brazil has been actively developing practical experience with REDD, and is currently developing a legal framework for REDD's inclusion in a Post-Kyoto Framework. Brazil currently has six REDD projects on-going. One of the most visible projects is the "Juma Sustainable Development Reserve Project", which was created in 2006. The project is located in the State of Amazonas, which is suffering from heavy deforestation due to increasing rates of agriculture and cattle ranching. The area has been established as a Protected Area (PA) for Sustainable Use (Unidade de Conservacao de Uso SustentaÅLvel), and was created as a financial mechanism for compensating REDD activities. The resources raised from the sale of carbon credits will permit the Amazonas Government to implement measures necessary to monitor the forest within the project site, combat illegal logging, and improve the welfare of local communities.

Brazil advocating a voluntary fund-based approach as a forest protection tool, REDD projects would receive direct financing under the UNFCCC, based on national policy drawing upon international funds donated by industrialized nations. Contributors would not be eligible for carbon credits that could be used to meet emission reduction obligations. Unlike the direct-financing approach taken at the federal level, the State of Amazonas aims to finance its deforestation reduction initiatives through the international marketing of carbon sequestration credits.

3) Past Greenhouse gas key mitigating measures still in force

a) Production and use of ethanol and sugar-cane bagasse

The alcohol program was a key element of Brazil's energy policy for more than a quarter-century. Brazil first launched its National Alcohol Fuel Program (PRO-ALCOOL) in 1975 to promote ethanol production as a substitute for gasoline. Ethanol production was justified to reduce dependence on oil imports and the environmental impacts of energy use, and to create domestic jobs and income. The government offered a variety of incentives including low-interest loans to build distilleries, ethanol purchase guarantees, favorable pricing relative to gasoline, and sales tax reductions. Today, ethanol is used in Brazil mainly as a gasoline additive. About one-quarter of gasoline sold in Brazil today contains ethanol in a blend required by law to control local air pollution. Alcohol fuel in 2000 still avoided 5.4 million tons of carbon emissions.

The use of sugar-cane bagasse is a special case of renewable energy use in Brazil. Bagasse is a waste by-product of alcohol production and is used in combined heat and power (cogeneration)

plants. In 2000, bagasse used for power generation reduced carbon emissions in Brazil by almost 1 million tons.

b) Electric Conservation

Power supply crisis, brought on by a long drought that dramatically reduced hydroelectric power generation, forced the government to quickly devise incentives for expanding electricity supplies. In May 2001, Brazil faced nationwide power rationing intended to avert major blackouts and save valuable water in severely depleted reservoirs. Households were required to reduce consumption by 20% or face significantly higher rates or even electricity cuts of up to three days. Industrial and commercial users were required to reduce consumption by 15-20 %, and to postpone any major expansions that would require additional electric power.

The government created the National Electricity Conservation Program (PROCEL) in 1985. PROCEL funds or co-funds a wide range of energy efficiency projects focused on information, utility demand-side management programs, direct implementation of efficiency measures, and technical support. 16 PROCEL long advocated mandatory efficiency standards for household appliances, lighting products, and motors; appliance and lighting standards were enacted in 2001.

c) Alternative Electric Sources

Emergency power-supply program launched in 2000 helped increase gas-fired cogeneration capacity, encouraging gas use instead of fuel oil. In 2000, the reduction in carbon emissions due to industrial fuel switching to gas amounted to 0.4 million tons.

In 2002, the Program for Incentive of Alternative Electric Energy Sources (PROINFA) was launched. This program sets an overall goal for the production of 10% of the total electricity from non-hydroelectric renewable sources by 2022, in two phases. The first phase is to achieve 3,300 MW of renewable energy—divided equally among biomass, small hydro and wind. This will be achieved through long-term power purchasing agreements between Eletrobrás and independent power producers, as well as fiscal incentives for each type of renewable energy.

d) One-litre Engine Tax Incentive

Tax incentive, introduced in 1993 to encourage the use of less powerful cars (cars with engines less than 1 litter in size), reduced emissions by nearly 2 million tons of carbon per year. For qualifying cars, the so-called Tax on Industrialized Products was cut from 25 % to 10 %. This policy was meant to encourage production of more efficient automobiles and make them accessible to lower-income buyers. By 2001, almost three-quarters of domestic sales of new

automobiles consisted of one-litter engine automobiles. Assuming that the tax reduction did not lead to a net increase in car sales, and that one-liter engine cars replaced more powerful automobiles, the policy saved nearly 2 million tons of carbon in 2000.

Chapter 4 Social Environment

4.1 Overview

According to World Bank, the estimated population of Brazil was 198.7 million in 2012¹. The average rate of the annual population growth between 2009 and 2013 was 0.9 %. Its population density was 23 people/square km (national average). Its Gross Domestic Product (GDP) was \$2.253 trillion. UNESCO Brasilia office² says that the increasingly accelerated rate of economic growth in Brazil may lead the country to become the fifth largest economy in the world in the next decade. In addition, with its GDP expected to grow between 5.5 % and 6 % in the next few years, Brazil is structurally consolidating as an emerging country and regional leader. However, there are other indexes hidden behind economic development that show a country which is still bound to its past. Despite lifting approximately 25 million Brazilian citizens out of poverty, there are still a further 54 million that need assistance. This is reflected in the Human Development Index (HDI), where Brazil is ranked 73rd amongst 169 countries. The same can be noted on the income distribution indicator (Gini per capita), which ranks Brazil in 75th position among the 183 countries surveyed.

Beyond material wealth and economic growth, rich Brazilian diversity (regional, cultural and environmental) offers unique opportunities and challenges related to fundamental elements of citizenship, such as access to basic health care, education, housing, safety, sanitation and drinking water. However, while on average, Brazil will attain the Millennium Development Goals by 2015, it will take most states in the North and Northeast regions a few more decades to reach the same development level. More equitable development between regions requires better territorial planning and further qualification of the state and municipal public sector. Today, over 80 % of the Brazilian population resides in urban areas, with 45 % living in metropolises, where a great divide between the rich and poor prevails. According to UN-Habitat, approximately 100 million people live in slums in Latin America and the Caribbean. There are 1.96 million homes which are considered inadequate in Brazilian slums (Source: Brazil. Ministry of Cities, 2010).

The long expected increasing speed of transformations after decades of null or inexpressive economic growth, has transformed into pressure on the country's infrastructure and the environment; new forms of territorial occupation, with corresponding social, cultural and environmental impacts; re-location of traditional populations; a deficit in educational provisions, faced with a demand for a qualified workforce at all levels; technological changes, which radically alter forms of expressing social and cultural diversity, as well as the conditions for access to information.

World Bank. http://data.worldbank.org/country/brazil
Search in UNESDOC, http://data.worldbank.org/country/brazil
Search in UNESDOC, http://unesdoc.unesco.org/images/0021/002123/212357e.pdf

Main religions are Christianity (majority Roman Catholic, also Pentecostal)³, Afro-Brazilian religions (Candomblé, Umbanda), Judaism and indigenous religions. Minority groups include Afro-descendants, Asian, indigenous groups and others (UN, 2011, see Chapter 1 for pie chart of ethnic minorities).

Official language is Portuguese. It is spoken by nearly 100 percent of the population. The only exceptions are some members of Amerindian groups and pockets of immigrants, primarily from Japan and South Korea, who have not yet learned Portuguese. The principal families of Indian languages are Tup, Arawak, Carib and others.

Unlike most of Latin America, Brazil was colonized by the Portuguese. Initial relations with the indigenous population were friendly but colonists eager to exploit trade in wood and sugar soon provoked conflict. The massacres and slavery which almost exterminated the coastal Tupi initiated a pattern repeated over the next 500 years. Rival colonial powers, France and the Netherlands, exploited existing hostilities between indigenous groups. Colonists introduced dysentery, smallpox, influenza and plague. Epidemics of these European diseases swept through the reduções (settlements) instituted by Jesuit missionaries, killing many thousands of indigenous and tribal peoples within a few decades. According to the NGO Survival International the indigenous population of Brazil is less than 7 % of what it was in 1500. It is thought that during pre-colonial times there existed up to 1,000 distinct tribes, while today only an estimated 197 of these remain⁴.

4.2 **Regulations and Policies**

4.2.1 **Outline**

There are several legal instruments which have had positive impacts on the social policy in Brazil⁵. For instance, the Organic Social Assistance Law (LOAS) was approved in 1993. Moreover, a bill of law to introduce a minimum income program was presented in 1991 by Senator Eduardo Suplicy, of the leftist party PT. The proposal of the Programa de Garantia de Renda Mínima (PGRM) consisted in a negative income tax to every individual over 25 years of age with a monthly income less than twice the minimum wage, which was used as a poverty line. In order to prevent incentives to reduce the individuals' labour supply, the benefit would correspond to just 30% of the difference between the minimum wage and the individual's income. Furthermore, because of budgetary restrictions, the PGRM would begin with the elderly and then gradually be extended to the younger population.

Minority Rights Group International, http://www.minorityrights.org/?lid=5289#sthash.nncsrLfm.dpuf
World Directroy of Minority, http://www.minorityrights.org/?lid=5289&tmpl=printpage
Pero V. and D. Szerman, The New Generation of Social Programs in Brazil 2005.

The PGRM, although not original, was to introduce several innovations in the Brazilian social protection system. First, it would benefit informal workers, breaking with previous trends of assisting only formal workers. Second, it was the first proposal of cash transfers targeted to the poorest, forming a safety net that protected beneficiaries from both macro- and microeconomic shocks. Third, it was aimed to cover the entire poor population and not just interest groups. Finally, it was openly aimed to fight income inequality, a goal which had never been directly faced by policy makers in Brazil.

4.2.2 **Domestic Laws**

According to the 1988 Constitution⁶, The title VII, "Fundamental Rights and Guarantees" of Chapter I mentions about the Individual human rights. Among developing countries, Brazil is increasingly seen as a model for social development⁷. Most of social security-related codes are based on this 1988 Constitution. Tables 4.1.1 and 4.1.2 summarize major social security-related legal codes and governmental organizations in Brazil, respectively.

Table 4.2.1 Social Security-related Key Legal Code in Brazil

Legal codes	Descriptions
Constitution (1988) The 1988 Constitution created a social security system comprising	
	systems covering health insurance, social insurance and various social
	assistance programmes.
Social Security Law	This law have regulated a new social insurance law in Brazil since then,
(1991)	being separate from the compulsory contributions of wage workers.

(Source: Delgado G.C. 2012)

Table 4.2.2 Major Social Security-related Governmental Organizations in Brazil

Organization	Major Functions
Ministry of Social	Established in 2004 with the goal of promoting the social
Development and Fight	inclusion, food and nutrition security, full social assistance and a
against Hunger (MSD)	minimum citizen income to the families living in poverty.
Ministry of Social Security	Provides general supervision of pension system.
Ministry of Health	Provides general supervision of the Unified Health System.
Ministry of Labour and	Specializes in promoting labour and employment sectors
Employment	through policies and regulations.

(Source: Federal government of Brazil, http://en.wikipedia.org/wiki/Federal government of Brazil)

Among the government organization, listed in table above, Ministry of Social Development and Fight against Hunger (MSD) is the most important ministry for the protection of basic human right. More detailed descriptions for this ministry are summarized in next section.

Superior Electoral Court, http://english.tse.jus.br/arquivos/federal-constitution
 World Politics Review, http://www.worldpoliticsreview.com/articles/13240/a-new-contract-brazils-dualsocial-protection-system

4.2.3 Ministry of Social Development and Fight Against Hunger: Key Organization for Protection of Basic Human Rights

The Ministry of Social Development and Fight against Hunger (MSD) was created in January 2004, by President Luiz Inácio Lula da Silva, with the goal of promoting the social inclusion, food and nutrition security, full social assistance and a minimum citizen income to the families living in poverty. In order to achieve those goals, the Ministry implements numerous programs and public policies for social development, manages the Social Assistance National Fund (SANF) and approves the general budgets of the Industry Social Service (SESI), of the Commerce Social Service (SESC) and the Transport Social Service (SEST).

Through the direct cash transfer programs, such as Bolsa Família (to be described later), MSD provides citizenship and social inclusion to the beneficiaries, which are committed to health and education activities. The Ministry also carries out structuring, emergency and sustainable actions of fight against hunger, by food production and distribution actions, family agriculture promotion, regional development and nutritional education, respecting the Brazilian cultural diversity. The Ministry also strives to consolidate the right to social assistance throughout the national territory and to bring agility to the transfer of federal government funding to the states and municipalities.

Its achievements over the past two decades are impressive. The share of the population living in extreme poverty fell from 16.4 % in 1995 to 4.7 % in 2009. Inequality as measured by the Gini coefficient fell more than 10 % in the same period, to 0.53, where 0 represents perfect equality of income distribution and 1.0 perfect inequality. Growth has been an important driver for these trends, particularly because over the past decade Brazil's growth has been distinctly pro-poor. Personal income among the poorest 10 % of the population has grown more than twice as fast as that of the wealthiest 10 %. It is not surprising that low- and middle-income countries look to Brazil for inspiration. Social policies, and especially social protection policies, are the key to explaining Brazil's successes. Education and health reforms initiated in the mid-1990s raised public expenditure per student and created a national health care system. In terms of social protection, the policy focus has been on reaching a majority of the population left outside of established social insurance schemes. This has been achieved through a significant expansion of social assistance programs providing income transfers to families in poverty.

The flagship program, Bolsa Familia Program (BFP: Family Grant Program), links cash transfers to school attendance and primary health care among participating families. Studies show that social assistance programs have contributed significantly to the decline in poverty and inequality in Brazil. However, these developments have resulted in a dual social protection system, with social insurance covering one half of the population and social assistance covering the other half.

Since its inauguration in 2004, MSD has played an important role in broadening social protection and integrating social policies and their contribution to the reduction of poverty and inequality in Brazil (see Table 4.2.1 and Figure 4.2.1). Nowadays, social protection is important not only to guarantee social rights but also to foster economic performance.

Consolidates social assistance as State policy
Regulates and organizes social assistance service network in all 26 States, Federal Obstrict and 5,564 municipalities

Boise Familia

Benefits for the Elderly and Disabled Living in Powerty

Figure 1 | Areas encompassed by the Ministry of Social Development and Fight against Hunger.

Source: Ministry of Social Development and Fight against Hunger, 2010.

Figure 4.2.1 Area encompassed by the Ministry of Social development and Fight against Hunger

Source: ILO, http://www.ilo.org/gimi/gess/RessourceDownload.action?ressource.ressourceId=24362

Table 1 Levels of complexity of social assistance: Services and facilities. Social Assistance Services **Basic Social Protection** Special Social Protection Social Assistance Reference Centre (CRAS) Specialized Social Assistance Reference Centre (CREAS) - In 2010, 3,919 CRASs co-financed by MDS in 3,187 municipalities (70% of Brazilian - 2010: 1,235 CREASs in 1,014 municipalities); municipalities; Comprehensive Family Care Programme · Protection and specialized attention to families and individuals; (Programa de Antenção Integral à Família, PAIF); . Child Labour Eradication Programme · Socioeducational Services for Adolescents (Programa de Erradicação do Trabalho Infantil, PETI); (ProJovem Adolescente); · Entrance door into the social protection · Programme for Fighting Sexual network of SUAS. Exploitation of Children and Adolescents; · Social protection services to victims of violence, mistreatment and other violations of rights. Source: National Secretariat for Social Assistance (SNAS)/MDS, Brazil, 2010.

Table 4.2.3 Level of Complexity of Social Assitance

4.2.4 Bolsa Família Program⁸

(1) Outline

The Bolsa Familia Program (BFP: Family Grant Program) is a conditional cash transfer policy that was launched in October 2003 and instituted by federal law. Its main objectives are to transfer income to the poorest families so as to combat hunger and poverty as well as to promote these families' access to health, education and social-welfare public services. Poor families are those households whose per capita monthly incomes range from US\$ 41.18 to US\$ 82.36; the extremely poor families' per capita monthly income is below US\$ 41.17.

Over the last several years, the Bolsa Família programme has turned out to be one of the most important strategic axes for the integration of policies and actions that are part of the Brazilian social protection network (see Figure 4.2.2). The Unified Registry for Social Programmes of the Federal Government (Cadastro Único para Programas Sociais do Governo Federal, CadÚnico) is an articulated set of procedures, techniques and capacities for registering and updating socio economic information about families in poverty. It contains the database on families earning no more than half the Brazilian minimum wage per capita.

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⁸ OECD, http://www.oecd.org/els/soc/48227030.pdf#search='Social++Development+Brazil'

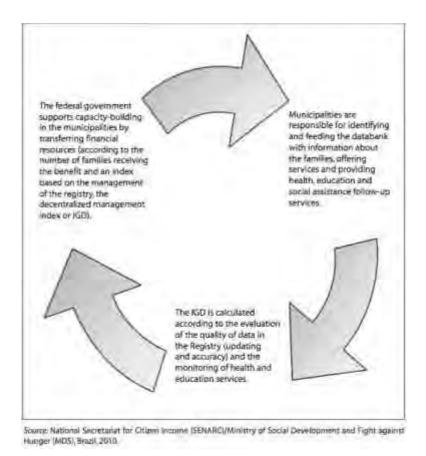


Figure 4.2.2 Bolsa Familia: Roles and responsibilities in the operation of the Unified Registry for Social Programmes of the Federal Government (CadUnico)

The BFP aspects which different from other conditional cash transfer (CCT) schemes are,

- Decentralized organization and implementation;
- Cooperation among Government levels;
- Coordination among agencies;
- Conditionality as a tool for:
 - 1) achieving families commitment with attendance to health and education services;
 - 2) enforcing the supply of services for the poor population (rights);
 - 3) identifying poor families' vulnerabilities
- Focus on the family rather than on its individual members;
- Free use of financial benefits;
- Funding of financial benefits: Federal Government budget.

Table 4.2.4 summarizes the conditions monitored by BFP.

Table 4.2.4 Conditions monitored by the Bolsa Familia Program

Area	Conditionality	Target
Health	Following vaccination calendar, children's growth and development	Children under 7 years of age
	Pre-birth and nursing health care	Pregnant women and nursing mothers
Education	School registration and monthly attendance (minimum 85%)	Children and teenagers between ages 6 and 15
	School registration and monthly attendance (minimum 75%)	16- and 17-year-olds
Social protection	Socio-educational and community activities (Child Labour Eradication Programme)	Children up to 15 years of age

BFP's main target are families with per capita income of 1/2 minimum wage (R\$ 320.00) up to its three-times minimum wages (R\$ 960.00). Currently, there are 19.5 million households enrolled in CADUNICO; approximately 13 million are beneficiaries of BFP. Its purpose is to identify the characteristics of poor families and their individual members through the Social Identification Number (NIS); producing socioeconomic diagnosis of low-income families in Brazil, serving as an input for public policies in all levels of government.

Types of information about families enrolled are characteristics of household, family composition, civil identification, educational level, employment status, labour market situation of each family member, income and total household spending. Its transparency and control are periodically audited by crossing administrative databases of the federal government; biennial review of the socioeconomic situation of families registered; control by outside agencies and social control agencies.

(2) Program Implementation

Municipal managers are responsible for identifying and registering of families, as well as offering services/support for the families in areas of health, education and welfare; State Government managers are responsible for providing support to municipalities in the implementation of BFP.

The federal government supports states and municipalities through transfers calculated by the number of families supported by BFP and indexes of performance for municipal and state Governments- the Índice de Gestão Descentralizada (IGD, Decentralized Management Index)

and the Índice de Gestão Descentralizada Estadual (IGDE, Index of Decentralized Management for States). Both IGD and IGDE are calculated from indicators of the quality of the CADUNICO and the monitoring data of conditionality of the health and education.

(3) BFP Outcomes

Followings are major outcome of this BFP

- Reduction in Income Inequality
 - 21 % of the reduction achieved in income inequality was due to BFP (2004-2006).
- Reduction of Extreme poverty
 - BFP explains 18% of the reduction in the poverty gap and a quarter of the reduction in the square poverty gap (from 5.9 % to 4.6 %)
 - In 2009, 4.3 million out of 12.4 million beneficiary families have crossed the extreme poverty line (US\$ 41.18 per capita monthly) by receiving the financial benefits
- Impact of the financial benefits over the per-capita monthly income:
 - Median increase of income: 48.7% (from US\$ 28.64 to US\$ 42.60), which allows families to cross the extreme poverty threshold
 - Increase of 60 % in the monthly per-capita income in North and Northeastern areas
- Impacts on health:
 - Increase of child immunization rates (15-25 %, according to the vaccine).
 - Beneficiary pregnant women have 1.5 as many pre-natal doctor attendances as nonbeneficiaries with the same social and economic profile
 - Probability of being born full term is 14.1 % higher for children in families that receive the benefit.
- Impacts on education:
 - Increase of 4.4 & in school attendance of 6-17 year-old children
 - Increase of 6 % in school promotion of 6-17 year-old beneficiary children
 - Bolsa Familia students show lower drop-out rates than students of public schools

4.3 **Protection of Rights for Socially Vulnerable**

4.3.1 **Poverty**

The level of poverty in Brazil is well above the norm for a middle-income country9. Within Brazil, there are wide disparities in the extent of poverty. More than half of all poor Brazilians live in the Northeast. In spite of urbanization, rural and urban areas contribute equally to national poverty. Poverty disproportionately affects the young.

Poor rural households are concentrated in the Northeast. The household head is illiterate (frequently even if he attended school) and works in agriculture. About half are smallholders or sharecroppers. The rest are employees or temporary workers. Poor households are large--they

⁹ World Bank,

http://web.worldbank.org/WBSITE/EXTERNAL/TOPICS/EXTPOVERTY/EXTPA/0.,contentMDK:2020 6734~menuPK:443285~pagePK:148956~piPK:216618~theSitePK:430367,00.html

have nearly twice as many children as the better-off. Access to utilities is rare. Poor urban households are evenly dispersed between large cities and small towns; 40 % live in the Northeast. They have more young children than wealthier households and spouses are not likely to participate in the labor market. The household head tends to be young, does not have a labor card, and most commonly works in services. Many are self-employed. A quarter of these household heads are illiterate; about half attended school for four years or less. These households have significantly less access to water and sanitation services than do better-off urban households.

Economic growth reduced poverty in the 1970s because formal employment expanded and wages rose. However, in the 1980s, recession hit the private sector, and the government was the engine of growth in the "boom" years. The impact on the poor is reflected in the growing informality of the labor force and negligible income growth. Macroeconomic instability lowered average income for the poor and hurt the poorest the most. Although income declined over the 1980s for all income groups, it fell most for those at the bottom--in contrast to the 1970s when those at the bottom and the top shared equally in the gains from growth. Price stability must be sustained in order to resume progress in poverty reduction. The poor stand to gain from lower inflation, through lower inflation taxes and transaction costs, and indirectly through high growth and wages associated with a stable economy. Second, one strength of the economy is that there is considerable labor market flexibility and job generation. Thus, there is no compelling rationale for introducing public employment generation programs in most areas of Brazil to reduce poverty. There would be much greater payoff from reducing informal in favor of formal sector employment, for example, by reducing the high level of payroll taxation. The removal of barriers to entry and of incentives to evade taxes and regulation would also begin to incorporate informal activities into the formal sector. The combined effect of these changes would be to raise the real wages of unskilled labor--the main asset of the poor. Third, few of the poor are formal workers. Policies geared explicitly to workers currently in the formal sector--an increase in the minimum wage, for example--are unlikely to benefit the poor. Although agriculture has performed well in Brazil, there has not been a commensurate reduction in rural poverty. The major reason is that the benefits of agricultural programs in Brazil were captured in the form of high prices for land, which is very unequally distributed. Recently the government's strategy for rural development has changed. It has reduced taxation on agriculture, and states play a greater role in determining their development strategies. In addition, the government is encouraging small-scale activities selected by beneficiaries. These changes seem likely to improve the welfare of the rural poor and to lead to more pro-poor rural development.

Brazil spends large sums of money on social programs. However, this has not translated into improved social indicators or poverty alleviation. In part, this is because the distribution of the benefits of public social spending in Brazil is pro-rich. The bottom quintile receives only 13 % of total benefits, compared to 24 % for the top quintile. The implication is that simply

increasing social spending will do little to alleviate poverty. Rather, the priority is to restructure spending across programs and improve the administration and increase the efficiency of social spending. For example, the share of spending for primary education and nutrition programs for young children should be increased. The data show that many public social institutions-including schools--only partially reach the poor.

Nutrition assistance does not adequately reach the most needy population - young children and the residents of the Northeast. The poor do not capture much of the benefits from social security, which is not really designed to reach them. However, it does have a negative effect on them. Recently the government has cut health spending in order to finance social insurance benefits, shifting resources from a progressive to the least progressive component of social expenditures. The distorted employment effects from high payroll taxes--which account for virtually all contributions--are adverse and significant and hit the poor the hardest.

4.3.2 Indigenous Peoples and Ethnic Minority Groups

The 1988 Constitution along with the Law 7716 of 1989 and the Law 9459 of 1997 includes indigenous and ethnic minorities rights and criminalizes acts of racism with high penalties of imprisonment to protect the existence of minorities. More detailed descriptions regarding the protection of right for indigenous peoples and ethnic minority groups are summarized in Chapter 7 of this study report.

4.3.3 Gender

The UN Office on Drugs and Crime (UNODC) reported that Brazilian women continued to be among the primary victims of international sex trafficking to Europe. The typical victims were darker-skinned women between 15 and 27 years of age.

Brazil's success in reducing poverty and income inequality has been widely reported in recent years ¹⁰. What is less known is that there has also been progress in lessening gender inequality in past two decades. Illiteracy rates for women 15 years old and above came down from 20.3 % in 1991 to 9.8 % in 2008. The share of the female labour force with tertiary education increased from 7.4 % in 1992 to 11.9 % in 2008, and now is higher than males. Government policies – some of them implemented in cooperation with the private sector - have also been addressing needs of mothers, providing health care before and during pregnancy and at birth, and child care and education. On gender-based violence, the enactment of the Maria da Penha Law has already brought some results.

 $^{^{10}\} World\ Bank,\ http://blogs.worldbank.org/growth/gender-equality-pays-brazil$

Notwithstanding these milestones, a lot remains to be done. For instance, gender gaps in access to formal employment and market income still persist in Brazil. Even though there has been an increase in the share of women employed in the non-agricultural sector, their comparative advantage in education has not been reflected in relative market wages—despite the average higher skill level of the female labor force. In 2008, women's wages were only 84 % of men's, and the gap increases at higher levels of education. Among those with 12 or more years of schooling, women earned merely 58 % of men's salaries. For the most part, the wage gap appears to reflect discriminatory practices and social norms. Brazilian women, even those working full time, continue to bear the brunt of time allocated to family chores.

In that regard, it is worth recalling how the World Bank's World Development Report 2012: Gender Equality and Development highlighted multiple channels through which economic growth and social welfare can benefit from lessened gender inequality. For example, think of the well-established evidence that babies tend to have more height and weight when women have more bargaining power over household income, with obvious consequences in terms of health and labor capacity of the adult population.

In the case of Brazil, Pierre-Richard Agénor and I have recently illustrated the impacts of lowering gender inequality on raising economic growth, developing a macroeconomic model with which one can simulate results from specific policies. Suppose for instance that the government successfully implements antidiscrimination laws that lead to a full elimination of gender bias against women in the workplace. Using Brazil's data, our model-based calculations suggest that an "equal work, equal pay" policy could add up to 0.2 percentage points to the country's annual gross domestic product (GDP) growth rate. This is just the direct effect of increases in women's "take-home" pay, not considering other effects on the allocation of talent and the production of human capital.

It is surprising how lessening gender inequality can boost economic growth through the range of mechanisms. Thinking of investments in infrastructure, it is needed currently in Brazil. Many analysts have already pointed out several ways by which more and better infrastructure in Brazil would lift growth from its current pace, by reducing waste of time and resources on production and transportation. What may have been less realized is its effect on growth lower gender inequality. More and better access to rural roads, water, power grids, and others would reduce mothers' time allocated to household chores and raise time allocated to market work, human capital accumulation, and child rearing. The latter is also productive; it leads to improved health in both childhood and adulthood. Crucially, the increase in time devoted to human capital accumulation raises women's bargaining power, which translates into a higher family preference for girls' education and children's health, an increase in the average share of family income spent on children, and a lower preference for current consumption.

According to World Bank, the gender bias is reducing in the market place in these days and gender's equality is contributing to the economic growth in Brazil.

4.3.4 Workers' Rights

In Brazil, there were 6.2 million people working as domestics in 2008, 16% of total female employment women and 20 % of black women's employment¹¹. Most of these work in verv precarious conditions: only a quarter of them have signed an employment contract that guarantees their rights.

Although Brazilian domestic workers had gained ground in recent years in the area of minimum wages and paid weekly rest days, they still suffered from legal and social inequalities as well as a lack of labor rights, according to a study by the ILO and the Brazilian government, supported by the "Inter-agency Programme for the Promotion of Gender and Ethnic-Racial Equality", one of three joint UN programmes funded by the MDG-F in Brazil.

The new law is the result, in part, of the impetus that led to the adoption at the 2011 ILO conference in Geneva of the Domestic Workers Convention, which stipulates that those employees should have the same rights as other workers, including schedules, weekly rest of at least 24 consecutive hours and limits on payments in kind.

A study funded by the MDG-F on the economic impact of increased income to domestic workers showed that by enhancing traditionally marginalized job categories it is possible to improve the living conditions of low-income populations and thereby to improve the welfare of society as a whole.

As for the unemployment rate in Brazil, in November 2013 it was estimated at 4.6 % for the group of six metropolitan areas surveyed (see Table 4.3.1)¹². There was decrease of 0.6 percentage points in comparison with October (5.2 %), but no statistically significant change versus November last year (4.9 %).

¹¹ MDG Achievement Fund, http://www.mdgfund.org/story/winning-rights-brazil-s-domestic-workers IBGE, Sala de Imprensa, http://saladeimprensa.ibge.gov.br/en/noticias?view=noticia&id=1&busca=1&idnoticia=2552

Table 4.3.1 Unemployment Rate in 2013

Indicator / period	NOVEMBER 2013	OCTOBER 2013	NOVEMBER 2012
Unemploymen rate	4,6%	5,2%	4.9%
Real income usually earned	R5 1 965.20	R\$ 1,927 48	RS 1 908.41
Change of Income in comparison with		2,0%	3.0%

Source: IBGE, Sala de Imprensa,

http://saladeimprensa.ibge.gov.br/en/noticias?view=noticia&id=1&busca=1&idnoticia=2552

The unemployment rate of November 2013 (4.6 %) reached the lowest figure since March 2002. The November figure was the same as in December 2012. The unemployed population (1.1 million persons) recorded decrease of 10.9 % in comparison with that of October. In comparison with November last year, this population remained stable. The employed population (23.3 million persons) remained stable compared in both comparisons. The number of workers with an employment record card signed in the private sector (11.8 million) did not record change in comparison with that of October and increased 3.1 % in relation to November 2012. The average real income usually earned by the employed population (R\$ 1,965.20) was 2.0 % bigger than that of October (R\$ 1,927.48) and 3.0 % than that of November 2012 (1,908.41). The volume of real income usually earned by the employed population was estimated at R\$ 46.2 billion in November 2013, having increased 2.0 % in relation to last October and 2.3 % in relation to November last year. The average real income of employed persons (R\$ 46.2 billion last October increased 2.1 % in comparison with that of September 2013 (R\$ 45.3 billion) and 2.4 % versus that of October 2012 (R\$ 45.1 billion).

4.3.5 Persons with Disabilities

Inequalities in access to education and educational performance are very evident among Brazilian children, young people and adults¹³. This particularly affects some ethnic groups, poor people, rural populations, disabled students, and youth and adults who have not concluded compulsory education at the conventional age. However, a firm commitment from President Lula and his successor, Dilma Rousseff, to social equality, a steady economic growth of 10 % and support from donors is leading to the development of real social change and inclusive education in Brazil.

The 1988 Federal Constitution defined education as a social right for all Brazilian citizens and an obligation on the state and family. The responsibility for enforcing this right falls on the federal government and the states. The federal districts and the cities divide this responsibility between them. The federal government organizes the system, finances public education

¹³ R. Rieser, 2012: Implementing Inclusive Education – Commonwealth Guide to Implementing Article 24 of the UN Convention on the Rights of Persons with Disabilities

institutions and exercises a redistributive function to guarantee equalization of educational opportunities and a minimum quality standard. The cities have the main responsibility for early years and primary education. Since 2008, this covers all 6–14 year olds, together with preschool children from birth to 5 years old. From 2001 the National Education Plan's objectives have included special education partnerships, health and social care providers in all cities; adequate educational interaction in early childhood; transport, spoken textbooks, large print, Braille and Brazilian sign language, and access to buildings. In the same year, national guidelines on special education provided for the enrolment of all students in basic education and made schools responsible for providing quality education.

Article 7 requires the care of all students with SEN to be realized in regular classes, drawing on Law 10.098 of 2000 and 10.171 of 2001. This provides that education systems must 'ensure access for students who show special educational needs, through the elimination of urban architectural barriers, in buildings – including the facilities, equipment and furniture – and in school transport, as well as the barriers in communication, providing the schools with necessary human resources and materials'.

In 2006, 56 million children out of a population of 170 million were enrolled in early years and school education. Primary net enrolment was 96 %, compared with 90 % in 2000. However, the census identified 28 million disabled people, so there is still a long way to go to get all into basic education. Traditionally, special education was organized as a parallel system with strong presence private sector involvement. The proportion of pupils with special needs who attend ordinary schools rose from 21 % in 2000 to 47 per cent in 2006.

'A cornerstone in Brazil's economic and social development has to embrace all Brazilians, especially disabled children who can escape lives of poverty and blunted opportunity by getting the education that others in the community take for granted', says Vinod Thomas, World Bank Country Director for Brazil.

In 2007, the Ministry of Education launched the Educational Development Plan (PDE). This includes 40 programmes or actions to reduce social exclusion and cultural marginalization. A big focus is on improving literacy and preventing drop-out by guaranteed minimum wages and hours for teachers, guaranteed one-third non-contact time, libraries and books. Most crucially for disabled students, the PDE provides for the installation of multifunctional resource rooms, equipped with television, computers, DVD and software for accessibility, furniture and educational material specific to Braille, sign language LIBRAS, and augmentative and alternative communication. At the Conference of States Parties on the UNCRPD held in September 2010, it was reported that 22,000 such rooms had been installed and Brazil would meet its target of 30,000 by 2011. At the same meeting it was reported that the Brazilian Government was also supporting mobile classrooms on barges in the Amazon basin to reach

out-of-school indigenous children.

Infrastructure is only part of the picture and since 2001 there has been a major programme of training administrators and teachers in the methods of inclusive education on a trickle-down, diffusion model, from federal government to the cities. The themes developed include the fundamentals of inclusive education; specialized education services for mentally handicapped people; assistive technologies in the educational process; the inclusion of deaf and hearing-impaired students and blind and visually-impaired students; and the inclusion of autistic students.

Independent assessments of the development of inclusive education identify teacher training and training for administrators as the two largest barriers. Improvements in the training and quality of the teaching are keys and since December 2009 a national minimum salary came into force and representative committees of different stakeholders oversee teacher training.

There is still much unevenness in the development of the education system in Brazil, but the clear resolve of the government is leading to innovative practice in various municipalities. Brazil's FUNDEF programme devotes 60 % of its resources to recruiting and training more teachers in poorer states. Qualified teachers help students to avoid grade repetition and drop-out. Changes are still being made, but there have been major advances with new values and beliefs being internalized after questioning of the milestones and objectives imposed by the political commitment to overcome exclusive practices.

4.3.6 Children's Right¹⁴

(1) Implementation of International Rights of the Child

The Constitution provides the principles to be followed for the protection of children and adolescents in Brazil. These principles, coupled with the numerous international treaties signed and several pieces of legislation enacted, offer a wide range of protection to children's and adolescents' rights.

Brazil is a founding member of the United Nations and a signatory of the Universal Declaration of Human Rights, which was adopted and proclaimed by General Assembly resolution 217A(III) of December 10, 1948. Article 25(2) of the Universal Declaration enunciates that motherhood and childhood are entitled to special care and assistance and that all children, whether born in or out of wedlock, shall enjoy the same social protection.

 $^{^{14}\} Library\ of\ Congress,\ http://www.loc.gov/law/help/child-rights/brazil.php$

In 1959, this theme was expanded and the UN proclaimed by General Assembly resolution 1386 (XIV) of November 20, 1959, the Declaration of the Rights of the Child. The declaration served as the basis for the future Convention on the Rights of the Child, which would be adopted, thirty years later, by UN General Assembly resolution 44/25 of November 20, 1989.

On November 21, 1990, Brazil issued Decree No. 99,710, ratifying Legislative Decree No. 28 of September 14, 1990, which approved the UN Convention on the Rights of the Child, fully incorporating it onto Brazil's positive law. Additionally, on March 8, 2004, Brazil issued Decree No. 5,007, promulgating the UN Optional Protocol to the Convention on the Rights of the Child on the Sale of Children, Child Prostitution, and Child Pornography and Decree No. 5,006, promulgating the UN Optional Protocol to the Convention on the Rights of the Child on the Involvement of Children in Armed Conflict. Table 4.3.2 summarizes international conventions ratified by Brazil.

Table 4.3.2 Summary of Rights of Child International Convention ratified by Brazil

	Name of International Convention
1	General Assembly resolution 217 A(III) of December 10, 1948 (ratified in 1948)
2	General Assembly resolution 1386 (XIV) of November 20 1959 (ratified in 1959)
3	UN Convention on the Rights of the Child (ratified in 1990)
4	UN Optional Protocol to the Convention on the Rights of the Child on the Sale of Children,
	Child Prostitution, and Child Pornography (ratified in 2004)
5	UN Optional Protocol to the Convention on the Rights of the Child on the Involvement of
	Children in Armed Conflict (ratified in 2004)

(2) Child Labour and Exploitation

Based on principles elaborated in the Constitution, the Child and Adolescent Statute sanctions the prohibition of any work for minors less than fourteen years of age, except as apprentices, and dictates that the protection of the work of adolescents is regulated by special legislation. Article 62 defines apprenticeship as technical-professional education administered according to the directives and on the basis of the education legislation in force. Article 64 lays out the principles to be followed in technical-professional education. The statue also assures labour and social security rights for apprentice adolescents older than fourteen years and protected work for the handicapped adolescent. In addition, it establishes that the adolescent worker has the right to acquire a profession and protection at work, which must respect the peculiar conditions of a developing person and equip them with adequate professional qualification for the job market.

On December 19, 2000, the government enacted Law No. 10,097 to supplement the section (arts. 402 to 441) of the Consolidation of Labor Laws that regulates the protection of the work of minors conform to both the Constitution and the Child and Adolescent Statute.

In 2001, the Ministry of Labor and Employment issued an administrative act (Portaria) listing eighty-one working activities prohibited to minors of less than eighteen years of age. The act

prohibits, for instance, work by minors in both civil construction and heavy machinery construction; in industrial operations of paper, plastic, or metal recycling; with infected animals; in fabrication of fireworks, and in slaughter houses.

Sexual Minorities 4.3.7

Outline **(1)**

In May 2008 global survey of laws on homosexuality, the International Lesbian and Gay Association (ILGA) notes that homosexual acts have been legal in Brazil since 1831 (ILGA May 2008¹⁵) and that discrimination based on sexual orientation is prohibited by Brazil's constitution. In a survey conducted in 2006, Amnesty International (AI) indicates that "antidiscrimination and anti-vilification laws" exist in some states (AI July 2006). With respect to employment matters, discrimination of the basis of sexual orientation is prohibited in several states including in Bahia, the Federal District, Minas Gerais, Paraíba, Rio de Janeiro, Rio Grande do Sul, Santa Catarina and Sao Paulo.

Legislation is pending on several proposals that affect the gay, lesbian, bisexual, transsexual and transgender (GLBT) community¹⁶. The proposals include legal recognition of civil partnerships between same sex couples¹⁷, criminalization of homophobia, authorization of change of given name of transsexual and transgender individuals and the establishment of a "National Day of Fight Against Homophobia".

State Commitment to GLBT Rights (2)

In June 2008, President Luiz Inácio Lula da Silva (President Lula) inaugurated the "First National Conference of Gays, Lesbians, Bisexuals Transvestites and Transsexuals", where he expressed his support for gay rights and called for a "'time of reparation" 18. The conference was reported to be the first in the world to be convened by a government for the purpose of promoting GLBT rights.

The "Brazil without Homophobia Program," 19 a government-led initiative created to promote homosexual "citizenship" and eliminate discrimination against the GLBT community, resulted in the creation of 47 Human Rights Reference Centers aimed at preventing and fighting against

¹⁵ International Lesbian and Gay Association (ILGA). May 2008. Daniel Ottosson. State-sponsored Homophobia: A World Survey of Laws Prohibiting Same Sex Activity Between Consenting Adults.

United Nations (UN). February 2008. Human Rights Council, Office of the High Commissioner for Human Rights (OHCHR). Brazil's Report on the Universal Periodic Review.

Refworld, http://www.refworld.org/docid/492ac7c72d.html
Pink News. 11 June 2008. Sophie Picheta. "Brazilian President Calls Homophobia a 'Perverse Disease'"

¹⁹ Rede Social de Justiça e Direitos Humanos http://www.social.org.br/relatorio2004ingles/relatorio028.htm

homophobia. The centers offer legal, psychological and social services and are available in all states in Brazil. Country Reports on Human Rights Practices for 2007 adds that in 2007, the government of the state of Rio de Janeiro created a support program for sexual minorities, which includes counseling services, medical assistance, rights defense and witness protection.

Brazil has also been an active promoter of GLBT rights on the international stage; in 2003 Brazil introduced the first resolution to the United Nations Commission on Human Rights (UNHCHR) calling for the protection of "the human rights of all people regardless of their sexual orientation". In addition, another Brazilian sponsored resolution, the "Resolution on Human Rights, Sexual Orientation, and Gender Identity," was adopted by the Organization of American States (OAS) on 3 June 2008.

A proposal to criminalize homophobia means that anyone convicted of "preaching" or "teaching" against homosexuality could be subject to a prison term of between two to five years if the legislation is passed. In expressing his commitment to "do all that is possible" to criminalize homophobia, President Lula was quoted as stating that homophobia is "the most perverse disease impregnated in the human head". The global coordinator for the World Congress of Families expressed concern that the proposal could facilitate the suppression of "free speech" and concerns have also been raised about the implications for "religious persecution".

President Lula also made a public commitment in favor of legalizing civil unions between same sex couples. The only state in Brazil where same sex partnerships are legally recognized is Rio Grande do Sul, where committed couples may register at a notary public office and be granted the right to joint property ownership, shared custody of children and pension and property entitlement upon the death of the other partner. In a precedent-setting court ruling in Rio Grande do Sul in March 2008, a homosexual man was awarded a share of his partner's assets, even though the two men did not cohabit and the partner was a married American citizen.

Sex-change operations are available at no cost through Brazil's national public health care system following a court order issued in August 2007.

(3) Situation of Homosexuals Living in Brazil

In Country Reports 2007, the United States (US) Department of State maintains that in general, laws prohibiting discrimination based on sexual orientation are upheld by federal and state

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²⁰ LifeSiteNews.com. 22 March 2007. Gudrun Schultz. "More Details on the Proposed Brazil Law to Jail Pastors who Preach Homosexual Activity is Sin."

officials²¹. Sao Paulo hosts what is considered the world's largest pride parade. On 25 May 2008, the event attracted an estimated crowd of between one to five million participants and generated substantial economic benefits, including the creation of "thousands" of jobs. The Tourism Minister was supportive of the event, reportedly stating that "this is the diversity the country wants".

Despite legal protections for GLBT persons, AI notes that there are "high levels of homophobic violence" in Brazil. In its report on the Universal Periodic Review to the Human Rights Council of the United Nations (UN), the government of Brazil corroborates this fact, noting that homosexuals are "frequent targets of [violent] acts and homicides".

According to a non-governmental organization (NGO) called Bahian Gay Group (Grupo Gay de Bahia), which is the oldest gay rights organization in Brazil, the number of reported killings of sexual minorities in 2007 is of 116, and included 83 homosexuals, 30 transvestites and 3 lesbians. 60 % of the reported killings occurred in the northeast region of Brazil. Estimates of the number of homosexual murder victims between 1980 and 2006 range from 2,680 to 2,790. However, between 1980 and 2002, figures collected by the Mortality Information System of Brazil's Ministry of Health indicate that the homicide rate for the entire country rose from 11.4 per 100,000 population to 28.4 per 100,000 population, with a total figure of 249,570 recorded homicides for the Year 2002 alone.

In September 2007, the winner of a local "Miss Gay" competition was found murdered in a town in northeast Brazil, and in February 2008, the president of Sao Paulo's Gay Pride Association was beaten unconscious by "an unknown number of attackers". A special police unit called the "Racial Crimes and Crimes of Intolerance Division" was assigned to investigate the latter incident.

(4) Other Support Groups

1

In addition to the Bahian Gay Group, Human Rights Watch (HRW) lists six other organizations that serve the GLBT community in Brazil on its website. One of these organizations, the Brazilian Gay, Lesbian, Bisexual, Transvestite and Transsexual Association (Assoçiacão Brasileira de Gays, Lésbicas, Bissexuals, Travestis e Transexuals, ABGLT), is the largest GLBT network in Latin America, consisting of 141 GLBT support groups in addition to 62 other organizations that collaborate on AIDS and human rights issues (ABGLT n.d.). An application by the ABGLT for consultative status at the UN was debated at the 29 May – 6 June 2008 session of the NGO Committee of the UN, a body of 19 member states representing "all regions," and will be given further consideration in January 2009.

²¹ United States (US). 11 March 2008. Department of State. "Brazil." Country Reports on Human Rights Practices for 2007.

In 2010, the government established two new bodies in charge of the Plano Nacional para Promoção da Cidadania e Direitos Humanos de LGBTs (PNLGBT)²²: the General Coordination for Promotion of LGBT Rights and the National Council to Fight Discrimination and Promote LGBT Rights. The first one substitutes the organizational unit created to execute the BSH, instituting a more formal and politically developed body in the structure of the SEDH. The second one was actually the result of a restructuring of the CNCD, which instituted a specific council to deal with discrimination faced by LGBT, thus increasing the consultative and deliberative space occupied by the LGBT Movement inside the government.

The last venture of the Lula administration involving LGBT rights was the launch of the Programa Nacional de Direitos Humanos III in late 2010. According to Carbonari (2010), never in the history of the country a governmental human rights program caused so much controversy and gained massive media attention like this. Unlike the previous versions, all launched by the FHC administration, this program touched upon very sensitive and contentious issues, instigating harsh responses from "reactive and conservative" sectors of the society²³. These issues included the creation of a commission to unravel truth about the human rights violations committed by the military during the dictatorship, rights to abortion and same-sex unions, among others.

Hence, with the PNDH III, Lula takes a step further in the human rights debate, breaking several taboos and bringing issues that had been long considered as private to the public sphere. The ultimate goal, as stated above, is to achieve equality and respect to diversity, while guaranteeing human rights implementation in Brazil. This discourse was coherently present throughout both his mandates and is consistent with the discourses used to legitimize the BSH and the PNLGBT, and to the broader human rights discourse established by his government.

4.4 **Cultural Heritage**

4.4.1 **Relevant Regulations and Government Agencies**

Backgrounds²⁴ **(1)**

Regarding legislation, even though from the nineteenth century, Brazilian identity has been linked to archaeological heritage, it was to be introduced later. In the Court in Rio the Janeiro, Romantic nationalism was grounded on the idealization of natives and archaeology played a role. After an eclipse in the beginning of the twentieth century, prehistoric and historic

Munin, http://munin.uit.no/bitstream/handle/10037/5101/thesis.pdf?sequence=2
Carbonari, Paulo César (2010) PNDH 3: Por que mudar? D
http://www.dhnet.org.br/pndh/textos/carbonari_pndh_3_pq_mudar.pdf
Funari, P.P., Conservation of Cultural Heritage in Brazil: Some Remarks, 2000. DHnet. Available

archaeological heritage contributed to forging Brazilian identity. In this context, it is natural that the earliest document relating to the official protection of archaeological heritage, dating of the eighteenth century in Portugal, tries to protect "any old building, statues, inscription in Phoenician, Greek, Latin, Gothic or Arabic, as well as coins", whose application in the Portuguese colony in South America is not probable.

(2) Constitution

According to the Brazil Constitution²⁵ in the title VIII Social Order, chapter III, Section II, they are mentioned about the cultural heritage. It says that the Brazilian government will not only promote and protect their cultural heritage including intangible nature with the cooperation of the community, but also ensure to full exercise of the cultural rights and protect the expressions of cultures of national ethnic groups.

Article 215: The State shall ensure to all the full exercise of the cultural rights and access to the sources of national culture and shall support and foster the appreciation and diffusion of cultural expressions.

Paragraph 1 - The State shall protect the expressions of popular, Indian and Afro-Brazilian cultures, as well as those of other groups participating in the national civilization process.

Paragraph 2 - The law shall provide for the establishment of commemorative dates of high significance for the various national ethnic segments.

Paragraph 3 - The State shall establish the National Plan of Culture, with a pluriannual duration, aiming at the cultural development of the Country and at the integration of the actions by the Public Power.

Article 216: The Brazilian cultural heritage consists of the assets of a material and immaterial nature, taken individually or as a whole, which bear reference to the identity, action and memory of the various groups that form the Brazilian society

Paragraph 1 - The Government shall, with the cooperation of the community, promote and protect the Brazilian cultural heritage, by means of inventories, registers, vigilance, monument protection decrees, expropriation and other forms of precaution and preservation.

Paragraph 2 - It is incumbent upon the Government, in accordance with the law, to manage the keeping of the governmental documents and to make them available for consultation to whomever may need to do so.

Paragraph 3 - The law shall establish incentives for the production and knowledge of cultural assets and values.

Paragraph 4 - Damages and threats to the cultural heritage shall be punished in accordance with the law.

Paragraph 5 - All documents and sites bearing historical reminiscence to the ancient communities of runaway slaves are protected as national heritage.

Paragraph 6 - The States and the Federal District may allocate up to five tenths percent of their net tax proceedings to a State fund for fomenting culture, it being prohibited the use of these funds

Legislation of Cultural Heritage²⁶ **(3)**

²⁵ Superior Electoral Court, http://english.tse.jus.br/arquivos/federal-constitution Ministério da Cultura, http://www.cultura.gov.br/

1) Laws

According to Ministerio de Cultura, these are the major laws and decrees related to the conservation of cultural, natural and intangible heritage in Brazil (see Tables 4.4.1 and 4.4.2). Most of them were inacted from 1937 to 2012.

Table 4.4.1 List of major Law related with Conservation of Cultural Heritage

Legal Code	Descriptions
Law No. 12.301, of 28.07.2010	Declares the Centro Luiz Gonzaga Northeastern Traditions - Northeast Fair Saint Kitts Intangible Cultural Heritage of Brazil.
Law No. 10.413, of 12.03.2002	included in the National Privatization Program.
Law No. 8,394, of 30.12.1991	Provides for the preservation, organization and protection of private documentary collections of Presidents of the Republic and other measures.
Law No. 8.113, of 12.12.1990	Deals with the legal nature of the Brazilian Institute of Cultural Heritage - EORTC and other measures.
Law No. 6,292, of 15.12.1975	Provides for the registration of goods in the Institute of National Historical and Artistic Heritage - IPHAN.
Law No. 3.924, of 07.26.1961	Treats of the archaeological monuments and prehistoric.

Table 4.4.2 List of major Decrees related with Conservation of Cultural Heritage

Legal Code	Descriptions
Decree No. 7,875, of	Amendment to the Decree 6,583, of September 29, 2008,
December 27, 2012	promulgating the Portuguese Language Orthographic Agreement.
Order of May 9, 2012	Declares public and social interest of the private document collection
	Diocesan Curia of Nova Iguaçu, State of Rio de Janeiro
Order of May 9, 2012	Declares public and private social interest documentary collection of
	the educator Paulo Freire Neves Reglus.
Decree No. 6,583, of	
September 29, 2008	Lisbon on December 16, 1990.
Decree No. 5,753, of	
12.04.2006	Heritage, adopted in Paris on October 17, 2003, and signed on
	November 3, 2003
Decree No. 3,551, of	
08.04.2000	which are Brazilian cultural heritage, creates the National Programme
	of Intangible Heritage and other measures
Decree No. 80,978 of	Enacts the Convention on the Protection of the World Cultural and
12/12/1977	Natural Heritage, 197 2
Legislative Decree No. 74 of	Approves the text of the Convention on the Protection of World
06.30.1977	Heritage Cultural and Natural
Decree Law No. 25 of	Organizes the protection of historical and artistic heritage.
11.30.1937 -	

4.4.2 Major Cultural Heritage Sites in Brazil

Nineteen properties are listed on the United Nations Educational, Scientific and Cultural Organization (UNESCO) World Heritage List in Brazil as of January 2014, of which twelve are cultural heritage sites and seven are natural heritage sites (see Table 4.4.3 and Figure 4.4.1).

Table 4.4.3 List of World Heritage Sites in Brazil

		Registered
Site	Properties	Year
1. Brasilia	Cultural Heritage	1987
2. Historic Centre of Salvador de Bahia	Cultural Heritage	1985
3. Historic Centre of Sao Luis	Cultural Heritage	1997
4. Historic Centre of the Town of Diamantina	Cultural Heritage	1999
5. Historic Centre of the Town of Goiás	Cultural Heritage	2001
6. Historic Centre of the Town of Olinda	Cultural Heritage	1982
7. Historic Town of Ouro Preto	Cultural Heritage	1980
8. Jesuit Missions of the Guaranis: San Ignacio Mini, Santa Ana, Nuestra Señora		
de Loreto and Santa Maria Mayor (Argentina), Ruins of Sao Miguel das Missoes		
(Brazil)	Cultural Heritage	1983
9. Rio de Janeiro: Carioca Landscapes between the Mountain and the Sea	Cultural Heritage	2012
10. Sanctuary of Bom Jesus do Congonhas	Cultural Heritage	1985
11. Sao Francisco Square in the Town of Sao Cristóvao	Cultural Heritage	2010
12. Serra da Capivara National Park	Cultural Heritage	1991
13. Atlantic Forest South-East Reserves	Natural Heritage	1999
14. Brazilian Atlantic Islands: Fernando de Noronha and Atol das Rocas Reserves	Natural Heritage	2001
15. Central Amazon Conservation Complex	Natural Heritage	2000
16. Cerrado Protected Areas: Chapada dos Veadeiros and Emas National Parks	Natural Heritage	2001
17. Discovery Coast Atlantic Forest Reserves	Natural Heritage	1999
18. Iguaçu National Park	Natural Heritage	1986
19. Pantanal Conservation Area	Natural Heritage	2000

Source: UNESCO (2014)



Figure 4.4.1 Location of World Heritage Sites in Brazil

Source: Atlas of the World,

http://www.welt-atlas.de/map_of_unesco_world_heritage_brazil_10-1068

4.4.3 **Issues Related to the Protection of Cultural Heritage**

According the Programada UNESCO no Brasil, 2011-2012: UNESCO Country Development Programming Document (UCPD)²⁷, there are some challenges for cultural heritages in Brazil.

Capacity-building for local managers and civil society agents to identify, safeguard, and promote cultural heritage:

The increasing involvement and interest of governments at state and municipal levels in managing the preservation of cultural property is a general trend in the country, providing possibilities for consolidating and extending actions. Consequently, the demand for capacity-building is growing, with a view to training local managers to implement actions

²⁷ UNESDOC, http://unesdoc.unesco.org/images/0021/002123/212357e.pdf

to identify, safeguard and promote tangible and intangible cultural heritage. Federal institutions have been greatly pressured to provide training on cultural program development and implementation and have turned to UNESCO for support.

✓ Fostering new development plan practices for cultural heritage preservation, including archaeological and underwater heritage:

The accelerated process of economic growth that the country has been experiencing may lead to irreversible ruptures in tangible and intangible cultural heritage. For example, evidence of increasing pressure on renovating historical urban areas; indigenous populations have sought new ways of life, due to a dramatic increase in migration to urban areas which has threatened their traditional knowledge and languages; furthermore, social factors such as interconnectivity have considerably changed the ways through which culture is accessed, increasing cultural expression channels used by groups which were previously invisible within the national scenario.

In addition to impacts on indigenous cultures, the issue of archaeological heritage has been raised in the Amazon region due to pressure from economic growth and large infrastructure investments. Recent scientific discoveries point to the need for a complete review of what was previously known about the land occupation process in the region. They suggest investments should be designated to support thorough cultural impact studies and that preventive measures are associated to such investments. As one of the alternatives to protect and promote these areas and cultures are an incentive for their recognition as sites and cultural expressions, so that they are registered on the World Heritage and Intangible Cultural Heritage Lists.

Regeneration of central areas and harbors, as well as investments in great sporting events which will take place in Brazil in the near future, are other examples of how the current development stage can indicate opportunities or losses for cultural heritage, depending on the choices made during the planning stages. UNESCO should endeavor to contribute to national authorities by advocating for an integrated approach to the urban regeneration processes, particularly focusing on input from national and international experiences, aimed at building public or private partnership models and with a view to renovating historical centers.

✓ Developing methodologies to appraise the economic and social dimension of culture:

National institutions have great interest in methodologies that measure the economic and social impacts of culture. Within this context, measurement of intangible heritage which is highlighted by the new "UNESCO Framework for Cultural Statistics" is at the forefront,

both for its importance to countries with great diversity and heterogeneous social conditions such as Brazil, and the methodological complexities it presents. The diagnosis and research which seek to understand the dynamic of the economy of culture sectors – especially the most dynamic segments, such as the audiovisual, publishing, and tourist industries – are mainly initiatives by public banks, export agencies, the tourism sector and business organizations analyzing their own investments. However, these initiatives have not shown sufficient regularity or scale for them to guide public policies. Therefore, UNESCO is contributing to consolidate cultural research and statistics on the public sector agenda.

✓ Enhancing policies and programs that promote intercultural and inter-religious dialogue:

Educational policies in Brazil have increasingly raised the value of themes such as diversity, intercultural dialogue, and the fight against discrimination. However, this agenda is divided into specific groups (indigenous populations, people of African descent, and traditional populations), resulting in strategies that have not been able to explain conflicts that arise within the school environment, or to act on them. The great challenge for culture is to provide assistance to develop transversal educational approaches which are closer to the experiences, ways of life, and views on the world that students and their communities hold. The General History of Africa Collection, which has been translated into Portuguese, as well as the production of associated pedagogical material may be one of the ways that intercultural dialogue actions may be encouraged by the UNESCO Brasilia Office. These actions will be conducted through the Brazil-Africa: Crossed Histories Program, which has the objective of enhancing Brazil-Africa relations and result in recognition, protection, and promotion of African culture as a live and dynamic combination of knowledge, ways of life, and creativity.

A particularly complex and relevant theme is the teaching of religious studies in public schools, which is a compulsory subject in accordance with the Education Guidelines and Framework Law. Minority religions, particularly those of African origin, have not been adequately addressed by teaching materials or been subject to an approach which is capable of ensuring diversity and inter-religious dialogue.

4.5 Gap Analysis Between the Existing Domestic Regulations, the JICA Guidelines for Environmental and Social Considerations, and the World Bank Safeguard Policy

The sustainable conservation of those urban heritages is one of important IDB's tasks and has provided relevant funds and technical supports to member countries. World Bank and JICA also share same view and has found that heritage conservation has increased city's activity by

preserving streets and neighbourhoods built at a human scale, public areas that support positive community interaction, and green spaces that offer recreational activities. By preserving their heritage, cities can create a unique sense of place and singular urban landscapes, developing strong branding and conditions to attract investors. This is especially true for investors in tourism, which is one of the largest industries in the world today and has a track record of creating significant levels of employment for unskilled and semi-skilled workers. In addition, improving a city's self-image and identity through recognition of heritage assets has been shown to increase civic pride and energize communities to actively address a wide range of development and livelihood issues.

Conservation and Development

In Brazil, the conservation efforts of cultural/historical and monumental properties are administered by IPHAN, the Ministry of Culture, and its relevant activities has accumulated certain amounts of knowledge and experiences, in particular, the conservation of urban heritages, but not for archaeological ruins of indigenous tribes [IPHAN, personal communication, 2014].

When development projects such as a large-scale dam construction project are planned and the project owners request for the environmental clearance to IBAMA, MMA, relevant information of development projects of concerns, tend not to be passed forward to IPHAN timely although IPHAN has an authorization power to provide licenses for those development activities. In most cases, LPs (Licença Prévia) are given to project owners without appropriate involvement and/or consultation with IPHAN at the early project planning stage. Usually, the review and/or the examination by IPHAN within the conventional EIA process of past and/or on-going development projects tend to be conducted when the design of the development project of concern is almost finalized.

Sometime, there were several cases in that IPHAN was able to get involved in that early planning process when IPHAN itself happened to find occurrences of negative impacts on cultural/historical and monumental properties, caused by development works.

> Participation of IPHAN at early Project Planning Stage

To overcome this weakness of the current EIA framework, it is essential to develop more comprehensive participatory approach that would make competent ministries, agencies, institutes, organizations, communities and others get involved at the early planning stage of future development projects in order to share common understanding about the interaction between conservation and development while having opportunities for constructive discussions leading to the achievement of a successful project consensus.

Chapter 5 Environmental Assessment

5.1 Legal Framework

5.1.1 Outline

In Brazil, Environmental Impact Assessment (EIA) was established in 1981 with the enactment of the National Environmental Policy (NEP) through Law 6.938/81. CONAMA's Resolutions 01/86 and 237/97 define the basic characteristics of the EIA process in Brazil. EIA is associated with the licensing of activities that can significantly impact the environment.

The environmental licensing procedure in Brazil includes the analysis of documents, projects and environmental studies submitted by the entrepreneur. The licensing procedure of certain activities deemed to significantly impact on the environment requires an EIA and the corresponding environmental impact statement (Relatório de Impacto Ambiental) (RIMA). The EIA and RIMA (EIA/RIMA) must both be submitted for approval by the appropriate authorities (CONAMA Resolution No. 1/1986). The authorities responsible for the EIA review at Federal Level are the IBAMA, and at State Level is the Environment Office/Environmental Council of the respective State. More detailed descriptions about the relationship among the federal, the state and municipality are to be summarized in 5.2.2 of this chapter.

In addition to complying with legal provisions, the EIA must also adhere to certain general guidelines, such as:

- Addressing all technological and project location options.
- Identifying and assessing, on a continuing basis, the environmental impact caused during the implementation and operation of the pertinent activity.
- Defining geographic limits directly and indirectly affected by that activity, the area of influence of the project.
- Considering government plans and programmes proposed and being implemented in areas influenced by the project, and their compatibility.

As for environmental assessments, most of them are requested by the environmental bodies at the permitting procedure, or whenever necessary for the remediation of contaminated natural resources, meaning they are mostly performed at the request of the environmental body. Therefore, the EIA/RIMA must be presented when applying for a preliminary license (LP) as the EIA/RIMA gives the technical information on which the environment agency can support its licensing decision. At the federal level, CONAMA Resolution 01/86 foresees the minimum content of environmental impact assessments and CONAMA Resolution 237/97 puts in place the process for conducting and receiving approval of environmental assessments.

The guidelines for the carrying out of environmental audits are set by technical norms at the federal level (International Organization for Standardization – NBR ISO 14010, NBR ISO 14011 and NBR ISO 14012). At the state level, several states have passed laws with the aim of making the environmental audits mandatory on a recurrent basis for certain ventures, especially those with a higher complexity level and most significant environmental impacts.

Moreover, for some activities, such as oil and gas exploitation and navy facilities, the legislation establishes specific obligations regarding periodic audits.

5.1.2 EIA Legal Framework

Tables 5.1.1 summarizes key features of EIA process in Brazil. Table 5.1.2 summarizes major EIA – related legal codes in Brazil and the regulation for the application of the environmental license.

Table 5.1.1 Summary of the Legal Framework of EIA in Brazil

Con Amax National Environment Council		
IBAMA: Brazilian Institute for the Environment and Renewable Natural Resources SISNAMA: National Environmental System Requirement for a permit prior to construction, installation, expansion, or operation of facilities and activities covered by regulations.	Key Environmental	CSMA: High Council on the Environment
Legal Character of EIA Requirements for a permit prior to construction, installation, expansion, or operation of facilities and activities covered by regulations. Screening CONAMA's regulations include a list of projects that must have an environmental license; based on the list, the responsible authorities define the criteria used to determine whether an EIA is required. Types of EIA instruments Types of EIA There are three sequential processes: (1) Preliminary license (LP, Licencia previa) (2) Construction license (LI, Licencia de instalación) (3) Operating license (LI, Licencia de operación States, municipalities, and in some cases, IBAMA. Perms of Reference (TORs) Responsibility EIA Requirements Regulations define general guidelines and technical activities; IBAMA or others can set additional guidelines; the responsible authority determines the necessary studies; a qualified multidisciplinary team that is not linked directly or indirectly with the proponent must conduct the study. EIA Requirements Analyze positive, negative, direct, indirect, short, medium, long-term, temporary, permanent, cumulative, synergistic and distributional impacts on health, safety, well-being, social and economic activities, biota, the environment, and natural resources. Institutional Coordination Public agencies that are interested in or directly related to project receive copy of RIMA. Interested parties can present observations on the RIMA within a specified period. The responsible authority can hold a public hearing if deemed necessary. Information Disclosure The information in the RIMA must be comprehensible. The public must have access to the RIMA in locations determined by regulation. The license request must be published. EIA includes preparation of a Support and Monitoring Program that also defines the parameters that must be considered. Alternatives CONAMA can require studies to analyse alternatives to public and private projects; EIA must consider and compare alternative technologies and locations for the pro	Authorities	CONAMA: National Environmental Council
Requirement for a permit prior to construction, installation, expansion, or operation of facilities and activities covered by regulations.		IBAMA: Brazilian Institute for the Environment and Renewable Natural Resources
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CONAMA's regulations include a list of projects that must have an environmental license; based on the list, the responsible authorities define the criteria used to determine whether an EIA is required. Types of EIA There are three sequential processes:	Legal Character of EIA	Requirement for a permit prior to construction, installation, expansion, or operation of
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Environmental EIS must include mitigation measures and a Support and Monitoring Program.		
Management Plan (EMP)	Environmental	
	Management Plan (EMP)	

Source: Gomez G.A, E. Sanchez-Triana, and S. Enriquez, 2006

Table 5.1.2 Regulation relevant to environmental licensing in Brazil

Regulation	Description
Article 225 of the 1988 Brazilian	States that everyone has right to environment ecologically
Federal Constitution	balanced, which is common propriety. Establish EIA as a
	mandatory and previous requirement for any project that may
	potentially cause any significant impact on the environment.
Federal Law 6938/81	Establishes the National Environmental Policy.
Federal Law 9605/98	Sets forth the procedures and criteria for environmental
	licensing.
Decree 1/86	Establishes the guidelines for the implementation of EIA.
Decree 9/87	Addresses public hearings (in force for review proceeding).
Decree 10/87	Provides for the compensation for environmental damages
	inflicted by large construction projects.
Decree 279/01	Establishes the simplified procedures for environmental
	licensing of projects in the energy sector with minor potential
	environmental impacts.
Decree 6514/08	Provides for the violation of the environment and the
	administrative sanctions, and establishes the federal
	administrative proceeding for the investigation of said
	violations.
CONAMA Resolution 6/87	Relative to large scale civil works
CONAMA Resolution 5/88	Relative to sanitation works
CONAMA Resolution 9/90 and 10/90	Relative to mining
CONAMA Resolution 23/94	Relative to exploration and production of oil activities

Source Involuntary Resettlement in Brazil: Review of Policies and Practices, World Bank, 2011

5.2 Initial Environmental Examination (IEE) and Environmental Impact Assessment (EIA)

5.2.1 Projects Subject to the IEE/EIA

The first step of the environmental approval process is initiated with an online registration where, besides other requirements, the person responsible for the process has to inform key development project information such as the geographic coordinates of the operation, and complete the forms to be submitted. After receiving confirmation of the submission, and then, be informed the type of studies, required in order to obtain the environmental clearance, the project owners start relevant environmental and social studies.

The Annex 1 of the CONAMA Resolution 237/97 presents the list of activities and establishments which are subject to environmental permitting, and therefore to EIA (see Table 5.2.1). Basically, any activities, not listed in this table (e.g., small-scale fishery activities), would be able to obtain the environmental approval by IEE-level studies. Some of those environmental approvals for small-scale activities and/or projects that would not cause significant negative potential impacts can be obtained at the website of state environmental agencies such as Sao Paulo [CETESBE, personal communication, 2014]. No specific EIA/IEE classification criteria and/or guidelines exist, but several guidelines are under preparation at the federal and state levels [IBAMA, personal communication, 2014].

Table 5.2.1 Activities subject to the EIA

	Table 5.2.1 Activities subject to the EIA
Type of activity	Description
Extraction and treatment of	Mineral Research with Guide for the use
mineral	Open pit, including alluvial, with or without processing
	Underground mining
	Scale mining
	Drilling and production of oil and natural gas
Production of non-metal	Processing of non-metallic minerals, not associated with the extraction
minerals	Manufacturing and development of non-metallic mineral products such as: production of ceramic materials, cement, gypsum, asbestos and glass, among
	others
Metallurgical Industry	Manufacture of steel and steel products
2	Production of iron castings and steel / forged / wires / re-rolled with or without
	surface treatment, including electroplating
	Metallurgy of non-ferrous metals in primary and secondary forms, including gold
	Production of rolled / alloys / artifacts of non-ferrous metals with or without
	surface treatment, including electroplating
	Rerolling of nonferrous metals, including alloys
	Production of solders and anodes
	Metallurgy of precious metals
	Powder metallurgy
	Manufacture of metal structures with or without surface treatment, including
	electroplating
	Manufacture of articles of iron / steel and non-ferrous metals with or without
	surface treatment, including electroplating
26.1	Quenching and carburizing steel wire annealing, surface treatment
Mechanic Industry	Manufacturing machines, equipment, parts, fixtures and fittings with and without
T. 1	heat treatment and / or surface
Industry of electric,	Manufacture of batteries and accumulators
electronic and	Manufacture of electrical, electronic equipment and materials for
communication materials	telecommunication and information
	Manufacture of electrical devices and appliances
Industry of materials for	Manufacture and erection of road and rail vehicles, parts and accessories
transportation	Manufacture and assembly of aircraft
	Manufacture and repair of ships and floating structures
Wood Industry	Saw and split wood
	Wood preservation
	Manufacture of sheets of chipboard plates, pressed and offset
	Manufacture of wooden structures and furniture
Paper and cellulose Industry	Pulp and mechanical pulp
	Manufacturing paper and cardboard
	Manufacture of articles of paper, cardboard, paper, cardboard and pressed fiber
Rubber Industry	Processing of natural rubber
	Manufacturing air chamber and reconditioning of pneumatic
	Manufacture of laminates and rubber thread
	Manufacture of foam rubber and foam rubber articles, including latex
Leather and skin Industry	Drying and salting of hides and skins
	Other preparations for tanning hides and skins
	Manufacture of various articles of hides and skins
	Manufacture of animal glue
Chemistry Industry	Production of chemicals and chemical manufacturing
	Manufacture of products derived from the processing of petroleum, shale and
	wood
	Manufacture of fuels not derived from petroleum
	Production of oils / fats / waxes essential vegetable -animal/oleos vegetables and
	other products of the distillation of wood
	Manufacture of resins and fibers, artificial and synthetic yarns and synthetic
	rubber and latex
	Manufacture of gunpowder / explosives / detonating / ammunition for hunting
	sport, safety match and fireworks
	Recovery and refining solvents, mineral oils, vegetable and animal
	Production of natural aromatic concentrates, artificial and synthetic
	Manufacturing to cleaning and polishing preparations, disinfectants, insecticides,
	E BERNALDINA DE LA CIERTINE AND DOUSHING DIEDALAHOUS, GISHIJECTAHIS, INSECTICIOES,

	germicides and fungicides		
	Manufacture of paints, enamels, lacquers, varnishes, waterproofing agen		
	solvents, driers		
	Manufacture of fertilizers and agrochemicals		
	Manufacture of pharmaceutical and veterinary products		
	Manufacture of soaps, detergents and candles		
	Manufacture of perfumes and cosmetics		
	Production of ethanol, methanol and similar alcohol		
Industry for plastic products	,		
muusiry for plastic products	Manufacture of plastic laminates Manufacture of articles of plastic		
75 cil A 1 7 1 c /			
Textile, Apparel Industry/	Processing of textile fibers, vegetable, animal and synthetic		
Footwear Industry	Manufacturing and finishing of yarns and fabrics		
Dyeing, printing and finishing on other pieces of clothing and sundries			
	Manufacture of footwear and footwear components		
Food and Beverages			
Industry	Slaughterhouses, abattoirs, and derivatives of animal origin		
,	Canning		
	Preparation and canning of fish		
	Preparation, processing and manufacturing of dairy products		
	Manufacturing and sugar refining		
	Refining / preparation of oil and fats		
	Production of butter, cocoa, animal fats for food		
	Manufacture of yeasts		
	Manufacture of balanced rations and prepared animal feeds		
	Manufacturing wine and vinegar		
	Manufacture of beer, draft beer and malts		
	Manufacture of non-alcoholic beverages as well as bottling and carbonation of		
	mineral waters		
	Manufacture of alcoholic beverages		
Tobacco Industry	Manufacture of cigarettes/cigars/cigarillos and other tobacco processing activities		
Various Industries	Concrete production plants		
	Asphalt plants		
	Electroplating services		
Civil Work	Highways, railroads, waterways, subways		
CIVII WOIL	Dams and dykes		
	Channels for drainage		
	Rectification of the watercourse		
	Opening bars, inlets and channels		
	Implementation of watershed		
	Other works of art		
Utility Service	Production of thermoelectric power		
	Electricity transmission		
	Water treatment stations		
	Interceptors, outfalls, pumping station and sewage treatment		
	Treatment and disposal of industrial waste (liquid and solid)		
	Treatment/disposal of special waste such as agrochemicals and their used		
	packaging and health care, among others		
	Treatment and disposal of municipal solid wastes, including those from tanks		
	Treatment and disposal of municipal solid wastes, including those from tanks Water bodies		
	Water bodies		
Transportation. terminals	Water bodies Recovery of contaminated or degraded areas		
Transportation, terminals and deposits	Water bodies Recovery of contaminated or degraded areas Transportation of dangerous goods		
Transportation, terminals and deposits	Water bodies Recovery of contaminated or degraded areas Transportation of dangerous goods Pipeline transportation		
	Water bodies Recovery of contaminated or degraded areas Transportation of dangerous goods Pipeline transportation Marinas, harbors and airports		
	Water bodies Recovery of contaminated or degraded areas Transportation of dangerous goods Pipeline transportation Marinas, harbors and airports Ore terminals, petroleum and chemicals		
and deposits	Water bodies Recovery of contaminated or degraded areas Transportation of dangerous goods Pipeline transportation Marinas, harbors and airports Ore terminals, petroleum and chemicals Deposits of hazardous chemicals		
and deposits Tourism	Water bodies Recovery of contaminated or degraded areas Transportation of dangerous goods Pipeline transportation Marinas, harbors and airports Ore terminals, petroleum and chemicals Deposits of hazardous chemicals Tourism and leisure, including theme parks and racetracks complex		
and deposits	Water bodies Recovery of contaminated or degraded areas Transportation of dangerous goods Pipeline transportation Marinas, harbors and airports Ore terminals, petroleum and chemicals Deposits of hazardous chemicals Tourism and leisure, including theme parks and racetracks complex Division of land		
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and deposits Tourism Various Activities	Water bodies Recovery of contaminated or degraded areas Transportation of dangerous goods Pipeline transportation Marinas, harbors and airports Ore terminals, petroleum and chemicals Deposits of hazardous chemicals Tourism and leisure, including theme parks and racetracks complex Division of land		
and deposits Tourism	Water bodies Recovery of contaminated or degraded areas Transportation of dangerous goods Pipeline transportation Marinas, harbors and airports Ore terminals, petroleum and chemicals Deposits of hazardous chemicals Tourism and leisure, including theme parks and racetracks complex Division of land District and industrial hub Agricultural project		
and deposits Tourism Various Activities	Water bodies Recovery of contaminated or degraded areas Transportation of dangerous goods Pipeline transportation Marinas, harbors and airports Ore terminals, petroleum and chemicals Deposits of hazardous chemicals Tourism and leisure, including theme parks and racetracks complex Division of land District and industrial hub Agricultural project Livestock		
Tourism Various Activities Agricultural Activities	Water bodies Recovery of contaminated or degraded areas Transportation of dangerous goods Pipeline transportation Marinas, harbors and airports Ore terminals, petroleum and chemicals Deposits of hazardous chemicals Tourism and leisure, including theme parks and racetracks complex Division of land District and industrial hub Agricultural project Livestock Settlement projects and colonization		
and deposits Tourism Various Activities	Water bodies Recovery of contaminated or degraded areas Transportation of dangerous goods Pipeline transportation Marinas, harbors and airports Ore terminals, petroleum and chemicals Deposits of hazardous chemicals Tourism and leisure, including theme parks and racetracks complex Division of land District and industrial hub Agricultural project Livestock Settlement projects and colonization Forestry		
Tourism Various Activities Agricultural Activities	Water bodies Recovery of contaminated or degraded areas Transportation of dangerous goods Pipeline transportation Marinas, harbors and airports Ore terminals, petroleum and chemicals Deposits of hazardous chemicals Tourism and leisure, including theme parks and racetracks complex Division of land District and industrial hub Agricultural project Livestock Settlement projects and colonization		

Utilization of natural genetic resources
Management of living aquatic resources
Introduction of modified exotic and/or genetically engineered species
Use of biological diversity, biotechnology

Source CONAMA Resolution 237 Annex1, 1997

5.2.2 Procedures and Relevant Organizations

(1) Decentralization of EIA

In Brazil, the process of Environmental Licensing is decentralized. This means that according to varied aspects, such as the type of activity involved, infrastructure size, geographic location, kind of operation, extent of the environmental impacts, amongst others, the process itself, supervision and concession of the licenses will be performed by a government agency at municipal, state or federal level.

In other words, if the activity is a complex and dangerous one, highly polluting, and localized at the boundaries of two different states, the agency that will be in charge of analyzing the environmental studies will be at federal level. Besides, infrastructure developments around the coastline (e.g., port development) are entitled for the environmental clearance by federal. However, environmental clearances of some port development activities are supervised at state level. It is noted that there is no specific guideline regarding precise demarcation of EIA process, categorizing into either at federal/state and/or municipality [IBAMA, personal communication, 2014]. So, it would be better to consult both State environmental agencies and IBAMA regional office once the outline of the development project of concern are delineated.

Some cities/towns have competent and qualified professionals to be able to emit (or deny) licenses at a municipal level. If the city has no expertise to deal with the process, it will be analyzed at state level. Finally, if the activity has an impact (both negative and positive) on a greater scale and involves more than one city, but is not yet not significant enough to affect the country as a whole, the licensing process will be done at state level.

As mentioned in Section 1.2, Chapter 1, each state has its own licensing agency and processes can have specific interpretations based on local peculiarities. Table 1.2.3 of Chapter 1 summarizes the environmental agencies of each state in Brazil.

(2) Federal Level

To construct, install, expand, and operate any potential pollutant activity or any kind of use of natural resources, which may cause environmental damages, the National Environmental Policy stated by Federal Law 6938/1981 and regulated by the Federal Decree 99274/90 and 3942/01 requires an environmental permit.

The CONAMA Resolution 237/97 also defines certain general rules for the licensing authority. The federal government, by means of IBAMA, is in charge of granting environmental licenses for activities that produce a significant environmental impact at the national or regional level and,

- Are located or jointly developed in Brazil with a neighboring country; in the territorial sea;
 at the continental platform; in the exclusive economic zone; on Indian lands; on conservation units within the federal government's domain.
- Are located or developed in two or more states.
- Have direct impacts that go beyond the territorial limits of Brazil or one or more states.
- Are designed to research, explore, produce, process, transport, store or dispose of radioactive material at any stage, or that use nuclear power in any of its forms and applications, in an opinion issued by the National Nuclear Power Commission.
- And are military bases or ventures, where applicable, subject to specific legislation.

There are three environmental permits, such as (i) preliminary permit (LP), (ii) installation/or construction permit (LI), and (iii) operation permit (LO), defined by CONAMA Resolution 237/97. Main features of these permits are described in Table 5.2.2.

Table 5.2.2 Environmental permits

Permit type	Descriptions	
Preliminary	Granted at the preliminary stage of the enterprise or activity, approving its location and	
Permit (LP)	conception, certifying its environmental feasibility and establishing basic requirements and	
	conditions to be met at the next stages of its implementation. At this stage, an Environmental	
	Impact Assessment and its corresponding report may be required, as well as others	
	environmental studies, according to the potential pollution level of the activity.	
	Expiration term: at least the period stated by the timeline of the plans, programs and projects	
	related to the establishment/activity, not longer than 5 years.	
Installation/or	Authorize the construction or expansion of a facility or activity in accordance with the	
Construction	specifications contained in the approved plans, programs and projects, including environmental	
Permit (LI)	control measures and other conditions.	
	Expiration term: at least the period stated by the establishment /activity installation timeline,	
	not longer than 6 years.	
Operation	Authorize the operation of the activity or enterprise subsequently to the verification of	
Permit (LO)	effective compliance with the requirements set forth in the previously mentioned permits.	
	Expiration term: varies from 4 to 10 years.	

Source latinlawyer.com

According to the CONAMA Resolution 237/97, article 14, the governmental agency responsible for the permits issuing has a maximum period of 6 months to analyze the requirements. Whenever an EIA is required, the maximum analysis period is 12 months (see Figure 5.2.1).

After ToR of EIA/RIMA is developed and approved by IBAMA, the project owner shall conduct relevant EIA/RIMA studies. All the 3 stages of permit, described previously, are also subject of alterations, suspensions and annulments. These actions can happen on the following cases,

- Violation or unsatisfactory fulfillment of any legal rule or circumstance.
- Omission or misdirection of relevant information during the permitting process.
- And occurrence of severe environmental and/or health risks.

✓ Preliminary License (LP - Licença Prévia)

The Preliminary License must be applied for via IBAMA when planning the implantation, modification or extension of an enterprise, industry or any other potentially polluting activity. This license does not authorize the construction/or installation of project but evaluates the environmental feasibility of the project and, if the application is in accordance with environmental legislation and requirements, authorizes its location and technical conception.

✓ Installation License (LI - Licença de Instalação)

In order to obtain the LI, it is necessary to submit a PBA (Programa Básico Ambiental, "Basic Environment Program" in English translation). This PBA is mandatory, as this document will point out all measures to be taken to reduce negative impacts and improve the positive ones, and must be elaborated according to the EIA/RIMA reports and must also be sent to all competent governmental agencies. This license authorizes the infrastructure of the activity to be built in a period that must not exceed six years. In other words, the schedule of construction must be complete within the period established by IBAMA.

✓ Operation License (LO - Licença de Operação)

This Operation License is issued after the inspection of all details involved with the proposed project and its activity. At this stage, key inspection/or verification points are if all requirements demanded by IBAMA and other governmental environmental offices during the LI stage, and also during previous licenses, were addressed, and how mitigation measures will be implemented.

If either of three license, mentioned above, are not approved at the first trial, project owner can continue re-trial by conducting additional/or supplemental studies and/or works until relevant documents such as contents of EIA/RIMA become satisfactory within the time limit of each study periods (see Table 5.2.2 for more detailed information).

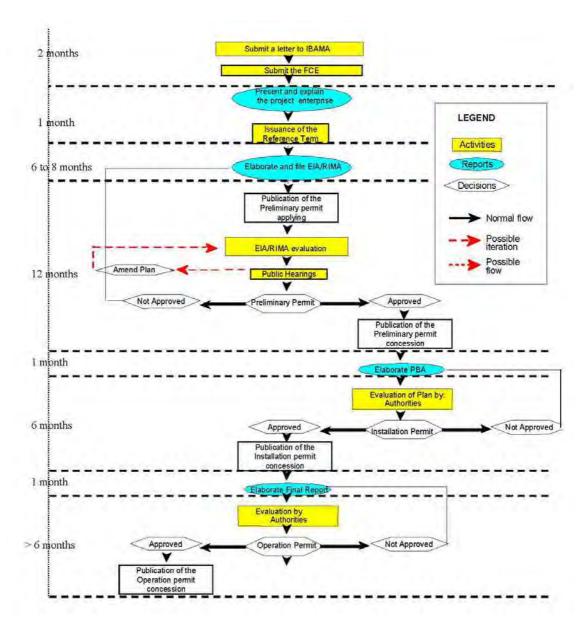


Figure 5.2.1 Diagram of Process to grant Environmental License in IBAMA

(Source: ERM, 2012)

(3) State and Municipality Level

The States, by means of their environmental bodies, will be in charge of environmental licenses for activities:

- Situated or developed in more than one municipality;
- In conservation units controlled by the state;
- Situated or developed in forests and other forms of natural vegetation subject to permanent conservation;
- That have direct environmental impacts that go beyond the territorial limits of one or more municipalities;

 And delegated by the federal government to the states through legal instruments or conventions.

Municipal governments will be in charge of environmental licenses for activities with local environmental impacts, and those that are delegated to the municipal government by the state through legal instruments or conventions.

(4) Additional Information

In 2011, the Complementary Law 140 established cooperation rules to be taken by federal, state and local government levels in order to optimize licensing and inspection proceedings of potential polluting activities. This Complementary Law tried to make clearer the rules for environmental licensing and inspection in Brazil, especially because the three government levels (federal, state and municipality) are empowered to protect the environment since the 1988 Federal Constitution.

The environmental licenses are issued in the name of the company in charge of the operation of the activity in each of its phases. Considering that, every time there is any transference of operation from one company to another, the environmental agency must be informed, and the company that is assuming the operation, must ask for license and permit transference. In some cases, depending on the state or the municipality, some permits are not transferable. In this situation, the company must apply for a new permit prior to assume the operation of the activity.

According to each activity, other authorizations and permits, such as authorizations for water use, effluent emissions and chemical product use, may be required. Some activities may also not be subject to environmental licensing. In this case, these activities shall obtain a certificate waiving environmental licensing from the respective environmental authority. As for oil & gas exploitation and production, specific environmental permits and guidelines are required. On the subject, the Federal Law 9,966/200 regulates the prevention, control and enforcement of oil pollution and other hazardous substances in Brazilian waters.

5.2.3 Public Participation

In the Brazilian system, a social license to operate also exists. It is related to the idea of transparency and pro-activity of a company towards the society and the local stakeholders in general. It aims to increase the participation of stakeholders in the decision made by the company. It has become quite usual for various stakeholders to take part in the permitting procedures of a company, especially at the time of the public hearing prior to the granting of an environmental permit by the authority.

5.2.4 Participation of Experts, NGOs and Other Third Parties

In general, the participation of experts, NGOs and other third parties within large-scale development project is guaranteed by setting the public audiences in Brazil although the current participation process would need more elaboration at the early project planning process.

Usually, a date of the public audience is settled to present the environmental study and the project of the proposed activity to the communities located close to the affected area, with the presence of a significant proportion of the local population as well as non-governmental organizations, third parties and others who else may be interested, including the media, students and entrepreneurs. All complaints, reservations and questions raised at the meeting must be answered within a defined period and must again be presented to the population. Usually, the larger the activity is, the longer it takes to attend and address all doubts and questions.

During this process, it is mandatory for the responsible for the activity to get a municipal certification declaring that the local for installation is in accordance to the local law of use of the soil. Also, it is mandatory to inform other governmental offices, according to their particular competence, about the potential risks, damages and impacts of the project.

5.2.5 Information Disclosure

As stated by the CONAMA Resolution 006/86, "all the permit requests, renewing and issuing must be published at the official journal, as well as at regional or local periodicals of great circulation". Failure in doing so causes the cancellation of the permit by the government or the judicial power, by means of a class action.

In Brazil, the EIA is a technical/scientific report, while the RIMA is a public consultancy document aimed at acquainting the local community with the issue using simple and objective language. The results and conclusions of both reports must be available to communities by printed and digitalized materials as well as sent to the other governmental bodies such as FUNAI.

The RIMA reflects the conclusions obtained in the EIA. It must be elaborated in clear, easy-tounderstand language, with figures, images and other visual aids and, as a minimum, must address the following points:

- Aims and justification of the project/activity, its relation and compatibility to local and governmental policies.
- Project/activity description and its technological/localization alternatives highlighting and detailing each category in the building and operating stages: raw material, labor, energy

resources, operational processes/techniques, possible effluents, emissions, residues, waste of energy, direct and indirect employment offers.

- Results, in an abridged form, of the studies of environmental diagnosis of the influenced area.
- Description of probable environmental impacts due to installation and operation of the activity, considering all aspects of the project.
- Characterization of the environmental quality of the influenced area, establishing a
 comparison between the project and the possible alternatives, as well as the possibility of
 non-execution of the proposed project.
- Description of the expected effects caused by the measures proposed to mitigate the negative impacts, mentioning also those that cannot be avoided and their effects.
- Program and schemes for monitoring and supervising the impacts.
- Recommendations about the most favorable alternative, conclusion and general commentaries.

5.3 Environmental Management Plan (EMP)

Basically, EIA Report shall contain relevant monitoring and supervision schemes, defining a program for monitoring and supervising both positive and negative impacts, indicating factors, aspects and parameters to be taken into account during the project implementation phase. In the licensing processes and based on the EIA/RIMA, the project owners have the obligation to support the implementation and maintenance of environmental management plan including the conservation unit – CU of the full protection group – Article 36 of the Law 9985/2000.

The existence of criticisms to the current management model of the environmental licensing process arises from the need of greater transparency, publicity and agility to present the results to the society and to define the requirements to be met by project owners. There is a deficit in the management capacity of methods – standards, concepts and procedures – that makes the monitoring and control of results difficult, as well as the compatibility of IBAMA's internal procedures and articulation mechanisms with the competent agencies such as IPHAN, PALMARES, FUNAI and others.

5.4 Strategic Environmental Assessment

The strategic environmental assessment (SEA) is proactive instrument of environmental policy that aims to anticipate the consideration of environmental issues in strategic decisions. It is appropriate for policies, plans programs of a more strategic nature than those applicable to individual projects. In Brazil, although not supported by legal requirements, there is a growing interest of academic and governmental institutions about the implementation of SEA, and also a strong demand from financial institutions like the WB and IDB.

SEA has only gotten some relevance in the Brazilian framework in mid 90's, when it became to be applied as a requirement for funding approvals. Since then this type of decision got more frequent and had assumed the main role in SEAs in the country. However, Brazil remains without a legal framework to guide the criteria and procedures of SEA. In the following years, some legislative and institutional initiatives at federal and state levels (see Table 5.4.1) had pointed to the formal implementation of SEA as an environmental policy instrument.

Table 5.4.1 Legal and Institutional Initiatives for SEA Implementation in Brazil

Year	Scale	Institution	Initiative description
1994	State – São Paulo	State Council of	Attempt to institutionalization of SEA to
		Environment of São	adequately address cumulative effects of large
		Paulo	projects
2002	Federal	MMA	Promoted a study on SEA recommending its
			adoption by legislation
2003	Federal	Deputies Chamber	Project of Law N° 2.072 - Introduce mandatory
			SEA of PPPs making
2004	Federal	Brazilian Court of Audit	Court Decision N° 464 - Adoption of SEA in
			developing the Multi-Year Plan and planning
2000	G 70 11		policies, plans and sector programs
2008	State – Bahia	State Government	Decree N°11.235 – Provides for the use of SEA
			in assessing environmental impacts of plans,
			programs, projects and sector public policies on
			environmental policy and to protect biodiversity
2000	M:1 C~-	Maniairal Carrant	in the state of Bahia
2009	Municipal – São	Municipal Government	Law N°14.933/2009 – Provides for the use of
	Paulo (State		SEA to integrate the climate dimension in plans,
2010	Capital) State – São Paulo	State Government	programs and public and private projects Decree N°55.947/2010 – Provides for the use of
2010	State - Sao Fauto	State Government	SEA to integrate environmental and social
			consequences of human activities, to be
			systematic applied to policies, plans and public
			and private programs, considering the
			challenges of climate change
2010	Federal	MMA	Public consultation - aims to establish the
	1 000101		principles, conditions and basic criteria for the
			use of SEA as a tool to advance environmental
			policy processes of formulating strategies for
			action that occur at different levels of decision
			of the Federal Government

Source Complemented from Teixeira (2008), Sánchez (2008).

At the end of 2010, MMA launched a public consultation to define the guidelines for SEA in decisions of the federal government. According to the MMA, the objective of this guideline is to "set the principles, conditions and basic criteria to apply SEA as an advanced instrument of environmental policy in formulating strategies for action that occur in different levels of decision of the Federal Government" (MMA 2010). This initiative brought some questions about what kind of decisions were to be supported by SEA in Brazil.

5.5 Monitoring

The Article 6, IV, of the CONAMA Administrative Act no 1 states that the EIA shall contain a

monitoring program of the negative and positive impacts caused by the project. The Relatorio RIMA [Environmental Impact Report] shall describe the monitoring program of impacts according to the article 9° of the CONAMA Administrative Act n° 1.

5.6 Major Issues and Challenges in the Current System

Overall EIA enforcement in Brazil has accumulated many experiences, and there are several tasks to catch up with environmental and social considerations guidelines such as WB, IDB and JICA. One of important tasks Brazilian EIA enforcement system should pay attentions to is appropriate information disclosure and the public participation. There are no right-to-know provisions that require information disclosure to the public at the early planning stage.

Moreover, Brazilian law does not provide any opportunity for public comment concerning a draft EIA. The public is invited to participate in the EIA process only when the developer already concludes it. Neither the environmental agencies nor the developers have a legal duty to answer to all substantial questions eventually raised on the public comment periods. So, only legal way to file complaints to development projects officially is to start lawsuit against the project owners. Therefore, current public participation framework is not effective.

Moreover, although there were great improvement within the entire environmental legal system, some of the current Brazilian legislations are not clear about the record agencies shall make in order to decide whether an activity or work may potentially cause significant impacts on the environment, and, as a consequence, requires an EIA, which may allow some arbitrary conclusions.

Brazilian EIA should also be improved to demand the environmental agencies to routinely inspect the project development after the conclusion of an EIA, in order to guarantee that all conditions stated on the final EIA having been accomplished. More detailed discussions about those issues and challenges, mentioned above, are addressed in next section.

5.7 Gap Analysis Between the Present Domestic Regulations, the JICA Guidelines for Environmental and Social Considerations, and the World Bank Safeguard Policy

> Current Issues with Environmental Approval Process in Brazil

As mentioned earlier, there is no significant difference in the environmental clearance process among Brazil, WB and JICA's procedures. One of uniqueness in the environmental approval process in Brazil is that there are three different licenses to be obtained before project of concern can start its operation. This process begins with the project owner and/or developer

applying for a preliminary license (LP – Licença Prévia) in the preliminary stage of project planning and design, when different locations and technological alternatives can be considered. The project owner and/or developer's team carries out the necessary environmental studies, which are defined beforehand and later reviewed by the relevant environment agency. These take the form of an Environmental Impact Study (EIA – Estudo de Impacto Ambiental) and its Environmental Impact Report (RIMA – Relatório de Impacto Ambiental).

With the LP, the project owner and/or developer should elaborate the engineering design for the project following the conditions and measures defined in the LP in order to apply for an installation license (LI – Licença de Instalação). If the LI is given, the project owner and/or developer can start the implementation of the project of concern. When the project is completed and ready to start, the project owner and/or developer requests an operation license (LO - Licença de Operação), which is issued after the environment agency checks if the conditions established in the LP and LI were met.

Recently, several environmental concerns, disputes and/or conflicts, were raised at large-scale infrastructure development projects in Brazil. Those are mainly due to the facts that appropriate program of environmental and social considerations were not incorporated at the early planning stage of the project cycle, and the project owners and/or developers proceed relevant engineering design works without satisfactory mitigation measures implementation plans.

> Comprehensive ToR Development at early project Planning Stage

In other words, most of those environmental disputes, mentioned above, would be able to be avoided or lessened if competent agencies such as FUNAI and IPHAN and/or organization can participate or were invited to discussions. Those involvement shall be held at the early project planning stage, and then, potential critical environmental and social factors can be identified through intra-disciplinary discussions and relevant management program including mitigation measures are developed in order to make the design of the development project of concerns more environmentally sound and sustainable one.

> Public Participation

In general, the public participation process is required within the current EIA regulation in Brazil. However, most of them are conducted at the later planning stage. So, when some possibilities of new alternative development plan is presented from communities and/or other stakeholder groups, it is difficult to feedback those comments and/or suggestions into the planning process and/or design framework since most of design works are at almost final stage. To mitigate this situation, it would be beneficial to develop comprehensive PI scheme that

would make public participation at the early planning stage possible, reflecting those opinions into the project design.

> Project Categorization

Also, when the area of concerns of project of concerns is huge and contains some important sites such as the national park, any clear guidelines regarding the project demarcation among federal, state and municipality do not exist yet, so that, entire dev elopement project tends to be segmented into several parts without overall supervising administration. As a result, entire environmental management framework, to be required for the implementation of appropriate environmental and social considerations, does not become coherent one.

Some State governments have guideline for this project categorization for the environmental review. However, the overall legal framework of this project categorization for the environmental clearance is still not defined clearly although there were great improvements so far, compared with past cases.

> Credibility of Environmental License

WB Environmental and Social unit in Brazil found that actual environmental clearance process, in particular, conduced at state and/or municipality government levels, need more efforts to catch up with relevant WB environmental and social policies. So, recently, WB Brazil Office shifts to focus on the capacity development program for the environmental administration, conducted at state and municipality level, in order to strengthen over all environmental governance including improvement of relevant EIA/RIMA studies. So, recent WB-funded development projects tend to be "a package type" one that combine soft and hard components altogether while making the entire study period more than several years to improve overall capacity of the environmental reviews to be conducted by C/P officials.

Chapter 6 Land Acquisition and Involuntary Resettlement

6.1 Legal Framework

6.1.1 Backgrounds¹

(1) Sesmaria System

Portugal's occupation of Brazil is a unique episode in the history of the European colonization of the Americas. Unlike Spain, Portugal applied a model of absolute centralized administration to her newly acquired territories, instead of promoting colonial institutions. The colonies utilized the same political, administrative, and judicial organization and the same legal norms—especially the Ordenações do Reino (the Kingdom's Legal Rules)—as the metropolitan territories. Brazil and Portugal's legal professionals were educated at Coimbra University in Portugal. Indeed, the Portuguese Crown considered the Brazilian territory as integral a part of its property as the Moorish territories that the Kingdom had reclaimed in the eleventh and fourteenth centuries.

As a result, the colonization of Brazil followed the same pattern of development that Portugal followed in the fourteenth century. The Crown employed the sesmaria—a system of land management first used under Ferdinand I in 1375—to distribute property among private entrepreneurs and to promote colonization. Because the land remained public property, it can be said that the sesmaria in modern legal terminology as a kind of gratuitous concession of the right to use the land, subject to a series of conditions such as limiting the land's occupation and restricting its use to certain stipulated economic activities. The sesmaria could be transferred by contract or through inheritance, but restrictions on the right of use could not be altered.

The Land Statute, approved in 1850, created private property in Brazil for the first time. The statute mirrored the Continental Law's definition of the concept of dominium by treating private property as an individual and absolute right. It converted sesmaria rights holders into landowners of the estates they already held, and extended the same ownership rights to anyone who possessed public land for at least 100 years before the statute's passage. In this way, the statute perpetuated the concentration of rural property in the hands of the same few who held the land in colonial times, effectively blocking the distribution of land to the European and Japanese immigrants who came to Brazil after independence. The Brazilian sesmarias closely resembled those distributed in southern Portugal: they were attached to large tracts of land, concentrated in the hands of a small group of latifundium estate landowners, employed intensive slave labor, and specialized in cultivating monoculture crops for export.

¹ Cunha A.S., The Social Function of Property in Brazilian Law, Fordham Law Review, 2010

The unique process that led to Brazil's independence meant that any changes from the Portuguese legal system developed extremely slowly, especially in the domain of Private Law. Although the Brazilian Constitution of 1824, which created the new Brazilian Empire, stipulated that a Civil Code would be written, a lack of consensus prevented the drafting of a definite version. And while nineteenth-century efforts to codify a Private Law statute did result in the creation of some important documents, the first Brazilian Civil Code was not adopted until 1916, twenty-seven years after the formation of the Brazilian Republic in 1889.

With independence came the dissolution of the sesmaria system, leaving Brazil with no legal instrument governing land appropriation. This made it extremely difficult to promote agrarian frontier expansion and to grant rural credit in the absence of reliable collateral. Thus, in 1850, the Brazilian Parliament approved Imperial Law No. 601, popularly known as the Lei de Terras (Land Statute), along with other attempts at structural economic reform aimed at preparing the country for the gradual abolition of slavery.

(2) Land Statute (1850)

The Land Statute created private property in Brazil for the first time. The statute mirrored the Continental Law's definition of the concept of dominium by treating private property as an individual and absolute right. It converted sesmaria rights holders into landowners of the estates they already held, and extended the same ownership rights to anyone who possessed public land for at least 100 years before the statute's passage. In this way, the statute perpetuated the concentration of rural property in the hands of the same few who held the land in colonial times, effectively blocking the distribution of land to the European and Japanese immigrants who came to Brazil after independence.

This Land Statute had no social concerns. Its main aim was preventing immigrants and former slaves from becoming landowners. Rather than promoting the settlement of new families in rural areas and redistributing land, it deliberately inflated property values by creating a scarcity of estate deeds. In transforming rural estates into commodities, it created a substitute for slave ownership to deal with problems of capital immobilization, value reservation, and provision of debt collateral.

(3) Civil Code and City Statute (2001)

The first draft of Civil Code was prepared in 1916. This draft Civil Code originally contained an innovative limitation on the exercise of property rights by providing that "this statute protects, within the limits of the law, the owner's right to make whatever use he sees fit of his property, and to claim this property, in the case of corporeal goods, from those who unlawfully possess

it." However, the Federal Parliament omitted this text from the final version, which simply provided that "this law assures to the owner the right to use, enjoy and dispose of his property, and to recover it from the power of whoever unjustly possesses it."

Because the Federal Parliament omitted it from the 1916 Civil Code, the social function of property remained a mere legal principle until the Brazilian Constitution of 1934 established it as a constitutional principle. In its bill of individual rights, the Constitution established that "the right of property is protected, provided it is not exerted against any social or collective interests, in the forms determined by the law."

Debate concerning the convenience and necessity of a new Brazilian Civil Code started as early as the 1940s, during World War II. In 1969, the Ministry of Justice appointed a group of seven jurists to write a draft. Their draft was sent to Parliament in 1975, approved by the Lower House in 1984, by the Senate in 2001, and finally promulgated in 2002. One way the 2002 Civil Code expresses this "social sense" is its provision for "a new concept of property, based upon the constitutional principle that the function of property must be social, [that] overcomes the interpretation according to which . . . property is an exclusive function of the interests of individuals, owners, or possessors."

According to Brazilian legal doctrine, the idea of "any social or collective interests" encompasses the concept of a social function of property; it thus acquires constitutional status and may be put into effect according to "the forms determined by the law." In other words, social function becomes an external limitation that the government must impose on the exercise of property rights. Pursuant to this authorization, limitations were enacted in normative instruments of urban policy, such as the Lei de Loteamento para Venda de Terrenos em Prestações (Statute Concerning the Plotting of Land to be Sold in Installments) and the Estatuto da Cidade (City Statute, 2001), as well as legislation concerning agrarian policy, such as the Estatuto da Terra (Land Statute, 1964) and the Lei da Reforma Agrária (Land Reform Law, 1993).

The 1988 Constitution introduced institutional and legal processes for the democratization of the state. It also opened up possibilities to resolve a range of problems stemming from social inequality in cities in Brazil, particularly by recognizing the right of the citizens to participate in formulating and implementing public policy, and to promote public control of the state. In Brazil, in order to implement the principles and instruments laid down in Article 182 of the Constitution (Chapter on Urban Policy), specific federal legislation was required. Twelve years after the promulgation of the 1988 Constitution, the urban reform movement finally succeeded in obtaining congressional approval for Law no. 10,257, known as the City Statute (2001).

6.1.2 Land Tenures

(1) Introduction

In Brazilian law, various instruments can be used for the legal recognition of the use, possession or ownership of urban land. These instruments are specifically laid down in the City Statute (2001) and the civil code (2002).

The civil code established rules for personal and real rights. Personal rights may be subject to some free choices between the parties, who can create some own rules. For a personal right, it is necessary to have two persons, the creditor and the debtor of some obligation. A real right is the relation between one person and a piece of property. In accordance with Article 1225 of the civil code, rights to the following are considered real rights: property, land, the use thereof, use of housing, access facilities, the right of the buyer of the property, the pawn or pledge and the mortgage. Real rights can not be a subject of free choices between the parties, and they cannot create their own rules. The rules governing real rights are regulated.

For example, to be valid, the manner of buying and selling urban or rural property must be in accordance with the rules. According to Article 1277 of the civil code the ownership of the urban or rural property is considered to be acquired by the purchaser only when the act is registered in the Public Register. It is important to stress that the types of rights considered below, with the exception of rental, are considered real rights by Brazilian law.

(2) Zone of Special Social Interest (ZEIS)

The Zone of Special Social Interest (ZEIS) is one of the instruments for land ownership regularization foreseen in Article 4 (V) (f) of the City Statute. ZEIS is a special zoning category that allows variable rules to be applied to the use and occupation of land in projects of urban land ownership regulation.

It applies to areas that are presently occupied in discordance with the formal legislation as regards the allotment, use, occupation or construction standards. The objective is to safeguard the right to adequate housing.

(3) Tenure Types

1) Ownership

✓ Buying and selling

Ownership through purchase is the most common tenure system provided for in the civil code for the formal land market of urban property acquisition. It is a contract agreed between the seller and the purchaser for transfer of the property deeds on the payment of an amount covering the value of the real estate in question. Having signed the preliminary or final deeds, the owner is obliged to sell his/her property under the agreed conditions, and undertakes to provide the final ownership deed when all agreed payments have been received. The buyer of the real estate will then be recognized by the authorities and community as the new owner and the deed drawn up in his/her name is registered and filed in the public property registry. If the buyer or seller is a woman, the transaction can be completed in her single or married name at her choice. If a couple is legally married the joint registration of their property is obligatory. The public registry must include the name of both in accordance with the civil code.

✓ Donation

If the landowner agrees to donate his/her property to another person, a donation or transfer contract to other person shall be made without payment. This approach has been utilized by the municipal and state governments in providing popular housing to families in situations of risk, such as during floods and landslides. In these programmes, the land belongs to the state or the municipality and in some case a partnership is created between the two authorities. Through this partnership the state government constructs the housing on municipal land and afterward donates both land and housing to the beneficiary of the programme. The donations include the titling of the land and property in the name of the beneficiary. In this case, the cost of the land and the titling is free to the beneficiary. The ownership registration process is the same as used in the formal real estate market. In some programmes resources for the cost of registration of the donation title are included.

2) User Rights

✓ Special Concession for Use of Public Lands for Housing Purposes

Housing rights are also recognized for people and families who are in irregular possession of urban public areas, conferring, in this case, not the ownership of areas involved but the right to possession and use. Each level of government must recognize this special right to lands under its jurisdiction in accordance with the terms of Provisional Legal Measure #2,220 of September 4 2001. Article 1 of this measure stipulates the criteria that must be met by the beneficiaries, which are generally as follows:

- The area occupied must not exceed 250 m²;
- The resident must prove his/her uninterrupted possession for five years prior to July 30, 2001:

- The land is used only for residential purposes;
- The occupier neither owns nor has a right to any other public property; and
- The occupier has not been legally notified by the public authority to vacate the property.

Candidates fulfilling the requirements for possession may apply for a special concession with the public authority. If the authority refuses or does not decide within 12 months of registration of the completed application, the candidate has the right to require the possession through court (Article 6). Where the candidates are low-income groups the public defense or some legal service can claim their rights in the court.

6.1.3 Legal System and Governance Structure

Brazil is a federal republic, with a representative system and democratic regime in accordance with the Brazilian Constitution of 1988. The Brazilian state is organized into the following federal units: One union, 26 states, 5,559 municipalities and one federal district (the capital Brasilia). All of these units are autonomous. The Brazilian federal system, as an innovative component of political decentralization, recognizes the municipality as a component and autonomous member of the federation, along with the union and the states. Municipalities can approve their own municipal constitution. As a general rule, matters of predominant international and national interest are the responsibility of the union; all matters that not listed as exclusive federal powers by the Constitution are the responsibility of states. In Brazil, there is no regional jurisdiction and matters of local interest fall within the responsibility of the municipalities.

As a federal system, there is a division of legislative jurisdictions and political-administrative responsibilities and obligations between the union, states and municipalities. The legislative jurisdictions are those related to the formulation and adoption of legislation by the federal, state and municipal parliaments. The political-administrative responsibilities are related to the implementation and monitoring of public policies and programmes – in other words, everything related to activities that are mandatory to the union, states or municipalities. The rights and fundamental guarantees of the people are supposed to be implemented through legislation and public policies, which seek to fulfill the fundamental objectives of promoting social justice, eradicating poverty and reducing social inequalities.

(1) Major Land Laws

There is a great effort of the building sector representatives to re-establish the conditions for a mass production as it happened in the past and they are pushing government to develop a new regulatory framework. From the side of the government there is no such a policy, although many initiatives have been tackled since the 90's when new housing programs and funding were

incorporated to the Housing Financing System (SFH). The institutional and regulatory framework is changing and many laws have been approved recently. Some of them are looking closely on the interest of the housing construction economic sector and others related to an urban reform.

Table 6.1.1 summarizes major land-related laws, implemented in Brazil. In terms of urban development, the Law 9785/99 is important in terms of promoting changes in land regulation, recuperating municipalities competence to regulate urban land, as established in the Constitution and replacing a law of the military regime. The 1964 Land Statute (Law No. 4504) regulates rural lands and governs Brazil's redistributive land reform program and the related issues of transfer and acquisition. This law strengthens the rights of tenant farmers and sharecroppers. The Law on Union Land (Law No. 9,636) deals with regularization, administration, alienation and leasing of union lands (i.e., government lands)

Table 6.1.1 Land Law of Brazil

Law	Descriptions
Federal Law 6766/79	Regulates the division of urban land into allotments or building sites, as well as the
(1979) amended by Law	establishment of urban standards and requirements for adequately creating such
9785/99 (1999) on	divisions. Such standards and requirements include: the minimum acceptable
division of urban land	infrastructure, the highway system, urban and community services, uses of public areas;
	the responsibilities of private parties (land owners, entrepreneurs) and the public
	authorities; and the definition of urban crimes. The 1999 amendment provides legal
	instruments to protect the right to housing and strengthen tenure security.
The Land Statute Law	Regulates "the rights and obligations concerning rural property assets for the purposes
4504/64	of implementing Agrarian Reform and Agricultural Policies" (Article 1). Agrarian
(1850, revised in 1964)	reform is understood as a "collection of measures that aim to promote a better
	distribution of land by modifying the traditional regime of possession and use in order to
	better attend the principles of social justice and obtain an increase in land productivity"
	(paragraph 1). The law also proposes to assure the opportunity of property access to all,
The Law on Union Land	under the condition of the fulfillment of land's social function (Article 2). Deals with the regularization, administration, alienation and leasing of lands belonging
9636/9	to the union. Article 1 refers to planned regularization and utilization, and authorizes the
9030/9	union to institute action in the Secretariat of Union Assets and by the Ministry of
	Planning, Finance and Management, for the identification, demarcation, registration,
	inspection and regularization of occupation of its land. To fulfill these objectives, the
	union is authorized to ratify conventions with the states and municipalities in whose
	territory the lands are located.
City Statute (2001)	The City Statute establishes a new chapter in the democratic management of the city,
	and defins the urban policy councils and urban conferences as democratic management
	tools. To implement the City Statute, the Ministry of the Cities considers proposal from
	the National Forum of Urban Reform, which call for a conference to draw up the
	constitution of the National Council of the City. The basis for establishing this body is
	derived from the system of direct democracy and the principle of popular participation
	enshrined in the Constitution.
Civil Code (2002)	This new civil code deals with family rights, inheritance rights, possession and property
	rights. While previous civil code of 1916 referred to a person as a "man", the new code
	employs the word "person". With relation to the ownership of property of such as union,
	equality between men and women is assured in the acquisition, management and
	administration of goods brought into the union or acquired after the formation of the
	family (Article 1642).

Source Land Tenure, Housing Rights and Gender Review Series: Latin America, UN- Habitat, 2005

(2) The Concession of Real Right

The Concession of Real Right (CDRU) is an instrument for the regularization of informal settlements on public land. It can be used in cases of the occupation of public or private areas, where the requirements of the special concession or adverse possession are not applicable or cannot be met by occupiers. The CDRU was created by Decree 271 on February 28 1967 and is regulated by the City Statute. It consists of the real right of use applicable to public or private lands, for the purposes of urbanization, industrialization, building, land cultivation or any other social interest use.

(3) Cession of Possession

Article 26 of Federal Law 6766/70 on the division of the land established this instrument for the regularization of irregularly occupied private land or property. The municipality, the state or the union may concede the possession of such private assets to the irregular residents, if the property in question had already been expropriated for the execution of social housing projects, and governmental temporary possession (by force of the expropriation) had been registered in the public property registry. The Article 26 instrument must be signed between the municipality or other governmental authority and the beneficiary population by the means of a contract specifying all the obligations and duties, the financial clauses and the possibility and terms of its conversion into an ownership title.

(4) Surface Rights

The right of use of land surface has only recently been introduced by means of Article 21-24 of the City Statute, although it is also generally regulated in Article 1369 to 1377 of the civil code. This City Statute defines surface rights as property rights that can be separated from the ownership of the land and links their implementation to the collective interest of assuring access to the land. Article 21 of the City Statute establishes that "the urban property owner shall concede to another party the right to the use of the surface of his/her land, for a specified or unspecified time, through public deed registered in the public deeds office.

The surface right includes the right to the land, the subsoil or the aerial space related to the land. The person receiving the surface rights will be entirely responsible for the fees and taxes on the surface of the property, also accepting responsibility proportional to their effective share of occupation. The surface rights can be transferred to the third parties. Upon the death of the person receiving the surface rights, their rights are transferred to heirs.

6.1.4 Land Management System

(1) Introduction

The responsibility for the management of land in Brazil is divided among the federal union, the state and the municipalities. Each federal entity has its own organization in the spheres of the executive, legislature and judiciary that form a complex system of land management. Moreover the National Association of Registries, an association of registers, provides guidelines to the register. The union also has federal legislation about public registration. Table 6.1.2 summarizes levels of land management jurisdiction in Brazil.

The public register systems and cadastres fit into state level. However, the union and the municipalities have their own cadastre systems to register the lands and the buildings belonging to them, but these administrative cadastres do not replace the public system, which is always at state level.

Table 6.1.2 Levels of Land Management Jurisdiction

Union level

- Legislature
- National Congress (composed of Chamber of Deputies and the Federal Senate)
- Executive
- Departments of Justice, Metropolitan Affairs, Urban Development, Agrarian Development
- Housing and Land Public Companies
- •Department on Public Assets
- •Land Institute
- State Attorneys
- Judiciary and Institutions essental to the operaiton of Justice
- •General Inspector of Administration
- Affairs of Justice
- Special Courts of Public Registry
- •State Public Prosecutors
- •Common Courts
- Public defender
- Public Registers Registration Services

State level

- •Legislature House of Representatives
- Executive
- •Ministries of the City, Planning, Agrarian Development
- Justice
- •Secretary of the Assets of the Union
- •INCRA
- •Palmares Cultural Foundation
- •National Indian Foundation (FUNAI)
- •Union Attorneys
- Judiciary and Institutions essental to the operaiton of Justice
- Federal Justice
- •Supreme Federal Court
- •Superior Court of Justice
- •Federal Regional Courts
- Federal Public Prosecutor
- •Federal Public Defender

Municipal level

- •Legislature Municipal Chamber
- Executive Municipal Departments of
- Planning
- Urban Development
- Housing
- Municipal Assets
- •Land or/and Urbanisation
- Finances
- •Legal Affairs
- •Institutions essential to the operation of justice
- •Municipal legal assistance services
- Municipal attorneys

(Source: Land Tenure, Housing Rights and Gender Review Series: Latin America, UN- Habitat, 2005)

Although Brazil is a federal state, the responsibility for the management of land is divided among the federal union, the state and the municipalities. Each federal entity has its own organization in the sphere of the executive, legislature and judiciary that form a complex system of land management. Current federal jurisdiction over public land is summarized in Table 6.1.3. Management of each type of land is described in following section separately.

Table 6.1.3 Federal Jurisdiction over Public Land

Type of land	Responsibility	
Urban union lands	National Secretary of Union Assets, together with the Ministry of the	
	Cities	
Rural union lands	INCRA, together with the Ministry of Agrarian Development and the	
	National Secretary of Union assets	
Indigenous land	FUNAI, together with the Ministry of Justice and National Secretary	
	of Union Assets	
Quilombo land	INCRA, together with the Ministry of Agrarian Development and	
	National Secretary of Union Assets	

(Source: UN- Habitat, 2005)

(2) Union Land: The National Secretary of Union Assets

The National Secretary of Union Assets, an organization subordinated to the Ministry of Planning, is responsible for the administration and conservation of (urban and rural) union land assets, and for adopting the necessary measures for the regulation of these assets. All administration activities related to union lands fall under the responsibility of this office, including the provision of the required certifications and registrations at the competent registries; the authorization of lawful occupation and the corresponding registrations; the establishment of guidelines for the use of these lands; the establishment of guidelines for the use of these lands, the demarcation of boundaries; identification, classification; and all other related aspects.

(3) Urban Land: The Ministry of Cities

The Ministry of Cities is responsible for the policies of urban development, including housing, sanitation and transportation policy. The ministry has a National Council of the City, formed by 70 members of the government and various segments of civil society, and which defines the actions and programmes related to national urban land policies. The national Secretary of Housing is responsible for the implementation of the national housing policy. The National Secretary of Urban Programmes is responsible for implementation of the City Statute, such as the National Campaign for Participatory Master Plans in Cities. Their mandate also includes the definition and implementation of a land tenure regularization policy in urban areas.

(4) Rural Land: Ministry of Agrarian

Federal Law # 10,267/01 created a Public System of Land Registry that, among other things, unifies the rural properties registry and exchanges information with the public registry, adding to the information on rural properties and conferring greater control over information on public and private property. It also created the National Cadastre of Rural Properties (CNIR), with a common information base managed by INCRA and the Department of Federal Revenue, and shared with public institutions of production and users of information on rural environments.

The Ministry of Agrarian Development, through INCRA, is responsible for the identification, delimitation, demarcation and titling of lands occupied by the descendants of the Quilombo communities, without interfering with and respecting the state, Federal District or municipality jurisdictions.

(5) Indigenous Land: FUNAI

FUNAI is a federal government foundation subordinate to the Directorate of Land Affair under the Ministry of Justice, and is responsible for the control and coordination of all indigenous matters, for contacts with the tribal leaders and for the regularization of indigenous lands. Pursuant to Federal Decree#1,775/96 within the Directorate of Land Affairs, the General Coordination of Boundary Demarcation has drawn up an agreed Manual of Technical Rules for the Demarcation of Indigenous Lands. This manual is applied to complement anthropological identification studies with the cartographic measurements necessary for the delimitation of the boundaries of the traditional indigenous lands. These borders are inspected (by contracted third parties) to ensure conformity with the law and to report violations to the Directorate of Land Affairs. Notwithstanding this structure, invasions of the indigenous lands occur repeatedly, especially where valuable deposits of natural resources are involved.

(6) Quilombo Land: Palmares Cultural Foundation

The Palmares Cultural Foundation was established by Federal Law no. 7,668 of 1988 to further the constitutional principles of the reinforcement of citizenship and the identification and preservation of ethnic minority groups that have contributed to the formation of Brazilian society, such as the cultural and economic values deriving from the African and native Brazilian influences. It is of fundamental importance in programmes related to land regularization, assisting and accompanying the Ministry of Agrarian Development and the INCRA in their efforts to guarantee the preservation of the cultural identity of the native Brazilians and the descendants of the Quilombo communities. Through its Administrative Resolution #6 of March 1, 2004, the Palmares Cultural Foundation also set up a general registry of the remaining Quilombo communities, to form a permanent record of the declaration of self-identification of these and related communities for land entitlement and ownership purposes.

The jurisdiction over the management of public lands at federal level is shown in Figure 6.1.1. List of key organizations at the federal land management is summarized in Table 6.1.4.

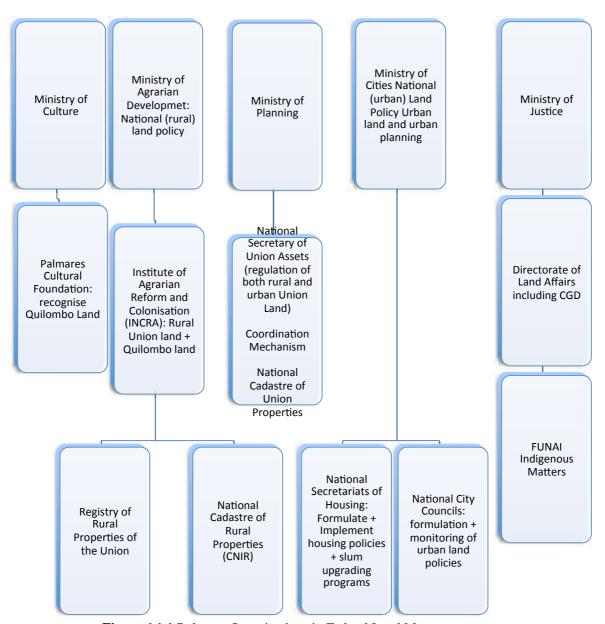


Figure 6.1.1 Relevant Organizations in Federal Land Management

(Source: UN- Habitat, 2005)

Table 6.1.4 Description of key Organizations at the federal Land Management

Omaon:+:	Daggai - ti
Organization	Descriptions (FI)
The National	Organization subordinated to the Ministry of Planning, which is responsible
Secretary of Union	for the administration and conservation of urban and rural union land assets,
Assets	and for adopting the necessary measures for the regulation of these assets.
	Related to union lands fall under the responsibility of this office, including
	the provision of the required certifications and registrations at the competent
	registries; the authorization of lawful occupation and the corresponding
	registrations; the establishment of guidelines for the use of these lands; the
	demarcation of boundaries; identification; classification; and all other related
	aspects.
The Ministry of	· Responsible for the policies of urban development, including housing,
Cities (MC)	sanitation and transportation policy.
()	Has National Council of the City, formed by 70 members of the government
	and various segments of civil society, and which defines the actions and
	programmes related to the national urban land policies.
	National Secretary of Housing, belonging to MC, is responsible for the
	implementation of the national housing policy. The National Secretary of
	Urban Programs is responsible for implementation of the City Stature, such
	as the National Campaign for the Participatory Master Plans in Cities. Their
	mandate also includes the definition and implementation of a land tenure
Minister	regularization policy in urban areas.
Ministry of	Responsible for the identification, recognition, delimitation, demarcation and
Agrarian	titling of lands occupied by the descendants of the Quilombola communities,
Development and	without interfering with and respecting the state, Federal District or
INCRA	municipality jurisdiction (based on the Federal Decree 4887/03 and the
	Normative Resolution 16 from 24/3/04 issued by INCRA).
	Federal Law 10267/01 not only created a Public System of Land Registry
	that unifies the rural properties registry and exchanges information on rural
	properties, but also established the National Cadastre of Rural Properties
	(CNIR), with a common information base managed by INCRA and the
	Department of Federal Revenue, and shared with public institutions of
	productions and users or information on rural environments.
FUNAI	· Federal government foundation subordinate to the Directorate of Land
	Affairs under the Ministry of Justice.
	· Responsible for the control and coordination of all indigenous matters, for
	contacts with the tribal leaders and for the regularization of indigenous lands.
Palmares Cultural	• Established by Federal Law 7668/88 to further the constitutional principles
Organization	of the reinforcement of citizenship and the identification and preservation of
	ethnic minority groups that have contributed to the formation of Brazilian
	society, such as the cultural and economic values deriving from the African
	and native Brazilian influences.
	• It is of fundamental importance in programmes related to land regularization,
	assisting and accompanying the Ministry of Agrarian Development and the
	INCRA in their effort to guarantee the preservation of the cultural identity of
	the native Brazilians and the descendants of the Quilombola communities.
	Through its Administrative Resolution 6 of March 1 2004, it also set up a
	general registry of the remaining Quilombola communities, to form a
	permanent record of the declaration of self-identification of these and related
	communities for land entitlement and ownership purposes.
Federal and state	 Provides free legal services and assistance to the low-income population
public defender	following the article 134 of the Constitution.
system	Therefore the public defender may act to promote land access for the low-
5,500111	income populations in land regularization processes that involve the federal
	public lands.
C I 175	Housing Rights and Gender Review Series: Latin America, UN, Habitat, 2005

Source Land Tenure, Housing Rights and Gender Review Series: Latin America, UN- Habitat, 2005

(7) State Land Management

At the executive level, the states have autonomy to organize their administrative structures. To deal with housing and land issues, the states have established institutions such as the secretaries or departments of urban development, metropolitan affairs, housing and land companies,

agrarian development and public assets. Furthermore, some states have created land institutes, with cartographical services, to handle matters such as the identification and registration of unregistered or abandoned land, surveying of idle and inadequately used lands, and provision of technical assistance in the execution of policy.

At the judiciary level, the states may act in matters concerning the rights of possession of private or public state and municipal land; to settle family disputes concerning possession or ownership of land, buildings and houses; or disputes arising from marriage, inheritance or domestic violence situations. Key organizations of the state land management are summarized in Figure 6.1.2.

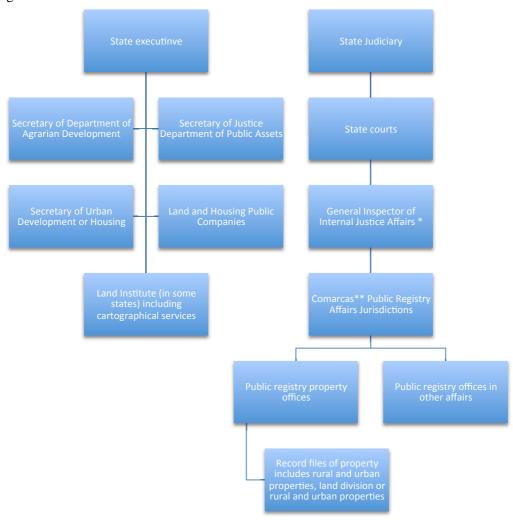


Figure 6.1.2 Organizations of State Land Management

Note: *The General Inspector of Internal Justice Affair inspects, disciplines and provides administrative orientation of criteria and procedures of the Public Registries. It also approves special regulations (provimentos) on land registration

**The State Courts are administratively divided into regional districts called comarcas. A comarca can

**The State Courts are administratively divided into regional districts called comarcas. A comarca can attend to two or a large municipality like Sao Paulo. Each comarca may have specialized judgeships organized into special jurisdictions.

Source: Land Tenure, Housing Rights and Gender Review Series: Latin America, UN- Habitat, 2005

Concerning the role of public registry offices, the system of public registries at the state level,

regulated by Federal Law 6015/76 deals with the legalization of possession and ownership of land. The federal Law 6015/76 contains general rules on registration of different kinds of property tenure. This law is mandatory to the public registry property offices, which are considered auxiliary services of the state judiciary. The state law on the organization of the state judiciary defines the organization and the territorial jurisdiction of the public registry property offices.

(8) Municipal Land Management

In accordance with the Brazilian Federal Constitution of 1988 the municipalities are responsible for fostering proper land use management by planning and monitoring the use of subdivisions and urban land occupancy. Master Plan, approved by the Municipal Council, is mandatory for cities with over 20,000 inhabitants and is the basic instrument for land development and urban expansion policy. Municipalities are also required by federal law to have zoning codes and a complete classification of all land areas by type of land use permitted.

The municipal administrative departments (or public companies) for urban or housing development also play an important role in the day-to-day processes of land regularization and upgrading. All municipal land is registered in the city archives along with information about its use, the beneficiary and the kind of tenure. The land assets are controlled by the financial secretary and specialized departments of municipal attorneys who also have the duty of promoting the protection of municipal green areas, building or monuments considered part of the historical or cultural heritage, and for social housing. To facilitate all these activities, complete and detailed land and public asset registry files are essential.

Furthermore, the municipality also needs a great deal of detailed information on the type of possession or ownership of the individual allotments, so that the administrators may decide the most appropriate use for each area and contain real estate speculation. The great majority of Brazilian municipalities have a specific record file for individual urban property owners for tax purposes.

6.2 Land Acquisition Process and Relevant Organizations

(1) Outline

In Brazil, all lands are classified into public and private lands. Privately-owned land can be freely sold and purchased, with the following restrictions:

• Federal: land near the border and in national security areas, natural parks, protected environments, areas home to species in danger of extinction, areas of natural vegetation

cover, and Indian Reservations;

- State: limitations based on environmental regulations, water resources;
- Municipal: limitations based on urban land use, traffic congestion, noise, vibrations, visual pollution, and deforestation.

Foreign-owned businesses are subject to basically the same legal requirements as Brazilian businesses. Real property is registered in the National Registry of Deeds (cartório dos registros de imóveis) and at the land registry (cadastro) at the municipal level. In large cities, most of the register entries are fairly reliable. However in smaller, more remote cities, the records become less and less reliable.

(2) Land Acquisition Process

In Brazil, land acquisition and site development procedures are handled at the local level, and each municipality has its own set of regulations and procedures. The land acquisition and site development process is one of the most complicated components of the investment process in Brazil with several approvals and permits to acquire. The land acquisition process starts with identification of suitable land and checking the municipal zoning and master plans for its fitness for the intended industrial application. In the land identification stage, consulting with the Environment Authorities is informal, and no document will be issued. However, the investor may apply for a preview license (LF), which can take up to 3 months to be issued. The LF, although not mandatory, is strongly recommended for polluting industries such as chemicals.

Then, the investor needs to obtain a land use certification from the municipality and check with the State Environmental Authority for location fit. Prior to the acquisition of any real estate, a location approval should be obtained through a consultation by which the Municipality is asked whether the planned activity can be permitted in the location stated. Uses considered to be prohibited in any special zone or sector are subject to evaluation by the local authority after which contacting the Municipal Housing and Urban Planning Council (COMHURB) and the local planning board, may be on a preliminary basis and authorizes the location of the activity in return for public amenities or facilities proportional to the benefit obtained.

Once the State Environmental Authority approves the location, the investor should check the land size and its boundaries with the data register and request correction at the courts if necessary. Prior to acquiring urban land it is necessary to check data from Municipal Land Tax Registry Records (IPTU) with property title data from the Registry of Deeds. And prior to acquiring rural property it is necessary to check data from Federal Revenue tax booklets (ITR) with property title data from the Registry of Deeds. In case of discrepancies corrections must be requested, which can take several months. The investor should also check existing court liens on the property and obtain clearance certificates from judicial district authorities on current owners.

It may be necessary to make a topographic survey and correct the register entry. The description in the real estate register must be checked against the municipal land register, and sometimes comparisons must be made with each adjoining neighbor. If there are differences, each situation must be cleared up in court.

The final step is the transfer of the title at a notary office and subsequent registry in the National Registry of Deeds. Title to a piece of land is acquired by a Notarized Transfer of Title subsequently registered with the Registry of Deeds. To purchase and register a piece of land, if all documents are in order, the purchaser first must pay the real estate transfer tax (ITBI). Then a purchase and sale agreement is signed in the presence of a notary, who records the deed. This document is in most cases preceded by a purchase and sale commitment. The cost of the notarized document is proportional to the value of the real estate changing hands. The document is then registered with the Registry of Deeds, which formalizes the transfer of land. Registration with the Registry of Deeds takes 15 business days and costs R\$ 360.

The real estate transfer tax (ITBI) is paid at the Notary when the title is transferred. This tax is levied by the municipality and is approximately 6 % of the purchase price or the assessment on the property, whichever is higher. According to the Federal Supreme Court, the ITBI tax should be 2 %. However to get the 2 % rate it is necessary to file suit against the municipality through a writ of security (mandato de segurança). The lawsuit is apparently always successful but takes several months to complete.

Prior to the purchase, the following information on real estate is needed:

- Property title document. An inquiry to establish the identity of the owner of a property may take 5 to 30 days after which a registration certificate may be applied for;
- Urban land and buildings tax (IPTU) valid until the date of the purchase and sale agreement (for urban property);
- Certificate attesting that no real estate tax is owed to the municipality (for urban property);
- Certificate attesting that no federal tax on rural land (ITR) is owed (for rural property);
- Rural property taxpayer certificate issued by Brazilian Agrarian Reform Institute (IBRA) (for rural property);
- Document showing that no property expropriation procedure or project has been initiated by any municipal, state, federal, or metropolitan agency or other authority (both urban and rural properties);
- Document showing that no property conservation procedure or project has been initiated by any local, municipal, state, or other authority (urban and rural properties);
- Property Certificate and Twenty-Year Certificate (titleholder records for the last 20 years).

If the current owner of the property is an individual, the following information and certificates

on sellers prior to the purchase are needed:

- Up-to-date certificate from courts dealing with civil matters and federal crimes in the judicial district of the place of residence of each seller and where the property is located, covering a period of 10 years;
- Up-to-date certificates from all "organismos de protesto" in the judicial district of the residence of each seller and where the property is located, covering a period of 5 years;
- Explanatory certificates covering actions in process, listed in prior certificates;
- Certificate from the state judicial and regulatory supervisory body and also from the competent Federal Regional Court listing the courts that issued the protesto and are located in the judicial districts or sectors where the property is located and where the seller lives.

If the current owner of the property is a legal entity, the following information and certificates on sellers prior to the purchase are needed:

- Clearance certificates from the courts with jurisdiction in federal civil and criminal cases in the judicial districts where the principal owner of the company resides and where the company is located, covering a 10-year period;
- Up-to-date certificates from all protesto courts in the judicial districts where the principal owner of the company resides and where the company is located, covering a period of 5 years;
- Clearance certificates issued by the labor courts of the judicial district where the principal owner of the company resides or by the appropriate regional branch of the Ministry of Labor, covering a period of 10 years;
- Explanatory certificates regarding all actions referred to in the above certificates;
- Relevant sections from the Articles of Incorporation, existing amendments, and minutes of
 the meeting at which the company directors were elected and, if necessary, a full copy of
 the Articles of Incorporation and copies of minutes permitting sale of the property in
 question, all entered in the appropriate Registers;
- Up-to-date clearance certificate from the National Social Security Institute (INSS), valid for six months, in the name of the owner;
- Up-to-date debt clearance certificate 81 (Certidão Negativa de Divida-CND) issued by the Federal Revenue Authority (Receita Federal) in the name of the owner;
- Certificate showing that nothing is owed to the Unemployment Compensation Fund in the name of the owner.

In general, municipalities offer support services and incentives for investors to locate in their districts. States also have support services for large investors and they may earmark certain private parcels for industrial zones, which they then promote. Municipal and state direct-investor-support agencies provide such services as searching for company sites and negotiating

with the public utilities. In São Paulo State, support is provided directly by the State Department of Science, Technology, and Economic Development, and in Campinas Municipality by the Department of International Cooperation. In Rio de Janeiro State, support is provided by CODIN and in Resende Municipality by the Department of Industry, Trade, and Tourism. Table 6.2.1 summarizes the outline of the current land registration process in Brazil.

Table 6.2.1 Summary of Land Registration Process in Brazil

No.	Procedure	Time to complete	Associated costs
1	Obtain a Labor Justice Certificate (Certidão	3 days (simultaneous with	R\$ 5.53 + R\$ 5.53 for
	da Justiça do Trabalho) from the Regional	procedures 2, 3, 4, 5, 6, 7, 8, 9, and 10)	every additional page
2	Labor Court Acquire 10 Certificates of Registries and	Less than a day (online	R\$ 9.34 for each 5 year
_	Disputes (Certidão dos Cartórios de	procedure and simultaneous	certificate (the total is BRL
	Protestos) from the Distributor of Disputes	with procedures 1, 3, 4, 5, 6,	93.40)
	Registry	7, 8, 9 and 10)	D0 15 5 (2) (5
3	Acquire a Civil Distributor's Certificate (Certidão dos Distribuidores Cívies), a Fiscal	1 day (simultaneous with procedures 1, 2, 4, 5, 6, 7, 8, 9	R\$ 17.5 (x 3 certificates) + R\$ 5 for every additional
	Executive Certificate (Certidão de Executivos	and 10)	sheet
	Fiscais) and a Bankruptcy Certificate	,	
	(Certidão de Falencias e Concordatas) from		
4	the City Court Office Obtain a Certificate of Good Standing on	Less than a day (online	no cost
4	Labor Debts (Certidão Negativa de Débitos	procedure and simultaneous	no cost
	Trabalhistas)	with procedures 1, 2, 3, 5, 6,	
		7, 8, 9 and 10)	
5	Obtain a 20-year certificate (Certidão	Less than a day (online	R\$ 37.01 per certificate
	Vintenária)	procedure and simultaneous with procedure 1, 2, 3, 4, 6, 7,	
		8, 9 and 10)	
6	Request a Land-Tax Certificate and a	Less than a day (online	No cost if obtained online
	Cadastral Certificate (Certidão de Dados	procedure and simultaneous	
	Cadastrais do Imovel)from City Hall	with procedure 1, 2, 3, 4, 5, 7, 8, 9 and 10)	
7	Acquire a Clearance Certificate from Tax	Less than a day (online	no cost
	Agency and a Federal Tax Clearance	procedure and simultaneous	
	Certificate	with procedure 1, 2, 3, 4, 5, 6,	
8	Acquire a Worker's Fund Certificate	8, 9 and 10) Less than a day (online	no cost
8	(Certidão de Regularidade de Situação do	procedure and simultaneous	no cost
	FGTS) at the federal bank- Caixa Economica	with procedure 1, 2, 3, 4, 5, 6,	
	Federal	7, 9 and 10)	
9	Acquire a Federal Justice Certificate (Certidão da Justiça Federal) from the Receita	Less than a day (online procedure and simultaneous	no cost
	Federal - (Certidão de Distribuição de Ações	with procedures 1, 2, 3, 4, 5,	
	e Execuções Cíveis, Fiscais, Criminais e dos	6, 7, 8 and 10)	
	Juizados Especiais Federais Criminais		
10	Adjuntos junto ao Poder Judiciário – Justi Notary obtains company information	Less than a day (online	no cost
10	Trotary obtains company information	procedure and simultaneous	no cost
		with procedures 1, 2, 3, 4, 5,	
		6, 7, 8 and 9)	
11	Drafting of Public Deed of Purchase and Sale	3 days	R\$ 3,569.07 (according to
	(Escritura Pública de Venda e Compra) by a Public Notary (Tabelião de Notas)		scale on www.anoregsp.org.br)
12	Pay transfer tax (ITB I) at the Municipal	1 day	2% of the property value
	Bank		registered with the cadastre
10		16.1	of the Prefecture
13	Register the escritura (transfer deed) at the appropriate Real Estate Registry with	15 days	R\$ 2,599.28
	jurisdiction over the property to finalize		
	registration and name change		
14	Update the land taxation records (IPTU -	5 days	no cost
	Imposto Predial e Territorial Urbano) to the		
	new owner's name at City Hall re The World Bank International Finance Gr	1 : 1 : 2012	

Source The World Bank, International Finance Group, doingbusiness.org, 2013

6.3 Involuntary Resettlement

6.3.1 Backgrounds

Involuntary resettlement has emerged as a critical issue in Brazil as it expands implementation of its massive Growth Acceleration Programme (Programa de Aceleração do Crescimento: PAC), which includes the world's largest slum upgrading programme. Brazil already has some policies in place to protect residents – the country's Federal Constitution ensures the social right to housing and dignified living conditions, and its City Statute regulates the use of urban property for the collective good. However, resettlements were being implemented on an ad hoc basis from project to project, with varying treatment and compensation for those affected.

In Brazil, although the implementing agency intended to provide the infrastructure and services resettlers needed, the federal government often did not or could not allocate the funds needed to do so. Eventually, this led to delays that further increased costs in total.

No specific law regarding the prevention of the involuntary resettlement exists yet. However, as mentioned above, Article 5 of Federal Constitution speculates that all persons are equal before the law, without any distinction whatsoever, Brazilians and foreigners residing in the country being ensured of involubility of the right to life, to liberty, to equality, to security and to property. Recently, there are some movements to alleviate the negative impact of involuntary resettlement. In 2013, Brazil's Ministry of Cities approved a policy that could ease those growing pains. The initiative, developed with support from the World Bank, Inter-American Development Bank and Cities Alliance, is designed to protect citizens who are involuntarily resettled from their homes.

6.3.2 National Policy on Land Acquisition, Compensation and Resettlement

(1) National Land Policy

The National Plans for Development, the National Policy of Integration, the Development Area for the Amazonia, and the Development Area for the Central-West Region were all created in the 1970's to develop the infrastructure for regional development. The economic crisis of the 1980's put a halt to this initiative and resulted in a relative absence of land policy.

In 1988, when the new Federal Constitution (BRASIL, 1988) was passed, the Union was given more responsibilities on the "design and implementation of national and regional plans on land administration issues and on economic and social development matters". It was also made responsible for the definition of guidelines on urban development. Following the 1998 Constitution, the Union, the States and the Municipalities are responsible for protecting the

environment. The Municipalities are responsible for the land administration of the urban land.

In the 1990's, the Multi-Annual Plan (1996-1999) set forth a framework that provided for a new stage of land planning with spatial references, since the Plan introduced national integration and development into the country's agenda. This experience continued in the second Multi-Annual Plan (2000-2003) as well as in the third one (2004-2007). Thanks to these Plans, land was used once again as a reference for public policies integration. Meanwhile, the State is no longer the largest investor, but an agent that tries to foster and encourage the private sector to make investments. The Multi-Annual Plan became the main guidance for Brazilian public policies.

In 2004, within the scope of the Multi-Annual Plan, the PPP (Public Private Partnership) Law was drafted to appeal to private investors, both national and foreign. The law also aimed at encouraging these potential investors to make investments in the areas the Government sees as priorities. The public private partnership agreement is a contract between the Government and private companies that legally binds them to implement or manage services and activities of public interest with funding and investment from the private sector.

The Government agrees to offer the private partner an additional revenue that would increase any income from the service provided to the public. The agreement is valid for a term of up to 30 years. When the public private partnership term is complete, the property of the asset goes to the State.

(2) National Resettlement Policy (2013)

Up until 2013, Brazil did not have specific national legislation on involuntary resettlement. Landowners affected by development projects were compensated through the application of the legislation on expropriation. Other socioeconomic impacts of development projects (including those related to land acquisition) were addressed through the environmental licensing process on a case-by-case basis. Given the lack of normative criteria for establishing the extent and limits of the responsibility of the project sponsor regarding social impacts, the decisions on the specific requirements for projects that involve resettlement were largely left to the discretion and professional judgment of technical staff.

In Brazil, there is no specific Legislation regulating the resettlement plan. Projects financed by international institutions follow their guidelines, such as WB and IDB. Projects financed by Banco do Brasil follow "Equator Principles", based on International Finance Corporation (IFC), WB, guidelines on various issues including involuntary resettlement of peoples. Projects financed by BNDES (National Bank of Social and Economical Development) follows a protocol of socio-environment responsibilities signed by the MMA, BNDES, Banco do Brasil, Banco da Amazônia, Caixa Econômica Federal and Banco do Nordeste.

In Brazil, the land acquisition - related legal framework has been already established, and when resettlement event occur, its relevant compensations are paid to PAPs although that compensation scheme sometimes does not cover fully (e.g., losses of business and/or job opportunities, associated with the relocation to new sites).

A study conducted by the WB in 2010-2011 noted that Brazilian authorities across the board recognized involuntary resettlement as a significant part of the country's development agenda, and that a guiding policy was needed. The Ministry of Cities approached the WB and the Cities Alliance for the necessary support.

Formally approved on 18 July 2013, the new resettlement policy regulates procedures and measures to be adopted in cases of involuntary resettlement of families from their homes or business (place of economic activities), caused by the execution of the Growth Acceleration Programme (Programa de Aceleração do Crescimento: PAC) and actions under the management of the Ministry of Cities. Some key elements of the policy include:

- Before any interventions proposed to the Ministry of Cities take place, an assessment must be conducted that includes a study of alternatives to involuntary displacement as well as effective economic solutions:
- People residing or developing economic activities in an area targeted for intervention should only be displaced in specific cases, such as if the intervention is critical for infrastructure projects, ensures adequate housing, eliminates hazardous risk factors, and protects environmental conservation areas;
- If displacement is inevitable, a plan for resettlement and compensatory measures must be
 drafted to ensure that affected people will be offered adequate solutions to offset the
 displacement. These plans must be approved by the Ministry of Cities or a designated
 alternate:
- Failure to follow the regulations will result in suspension of funds for the project.

6.3.3 Grievance Redress Mechanism (GRM)

The Public Prosecutor's Office (Ministério Público) and the Public Defender's Office (Defensoria Pública) have a role in protecting the interests of the affected population during expropriation and involuntary resettlement - working both in the judicial and extrajudicial spheres. In addition, the affected people have the right to access the courts to resolve complaints related to resettlement issues.

Indeed the Public Prosecutor can intervene in the expropriation process and investigate irregularities in the compensation procedures. His intervention in conflicts related to

expropriation and involuntary resettlement often results in the execution of Conduct Adjustment Terms (Termos de Ajustamento de Conduta, TAC)² among the project sponsor, the Public Authority, the Public Prosecutor, and the affected population.

As for the Public Defender, created by Article 134 of the Federal Constitution to provide full and free legal assistance to those who prove insufficiency of resources, he can have significant participation in cases of involuntary resettlement programs, which most frequently involve the displacement of low-income residents, or those without sufficient resources, who need the assistance of the state to guard against eventual illegalities perpetrated during the process.

In the judicial sphere, depending on the nature of the conflict, it is possible to submit the lawsuit to the Special Courts, as an alternative to Common Courts. In the extra-judicial sphere, it is possible to take the disputes to the chambers of arbitration.

6.3.4 Information Disclosure

According to Article 9 of CONAMA Resolution n 1, Jan 26th 1986 (sole paragraph), the RIMA, containing the information including land expropriation must be prepared and be presented for its proper understanding. Content must be translated into accessible language, using illustrated by maps, charts, tables, graphs and other visual communication techniques. So that, the advantages and disadvantages of the project of concerns as well as all environmental consequences of its implementation can be understood by various stakeholders.

Public hearing is included as a requirement under the environmental licensing process in 1986 (CONAMA resolution # 001 of January 23, 1986 (001/86)). Basically, communities and/or person to be affected by the project of concerns are invited with the presence of the executing agency in the project area. This consultations (it is called as "Public Audience" in Brazil) with the persons affected by projects (PAPs) are encouraging common practices in Brazil, and public hearings are required by the environmental licensing process. However, consultations are not always meaningful and effective. Consultations and public hearings are often a simple forum for disseminating information related to the development project. In some cases, the resettlement plan is presented to the affected population for the first time during the project's public hearing carried out as part of the environmental licensing process, in which all aspects of the project are discussed. The language adopted during the public hearings used to be often too technical, which inhibits effective popular participation. The relevant documents are not always available before the hearings or are not presented in a form and language that are easily understandable by the affected populations.

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² Supported by provision in article 5, paragraph 6 of Federal Law 7347/85 (Public Civil Action)

The cases that were evaluated as part of this study illustrate the importance of consultations with affected people and their participation in the development of resettlement and rehabilitation measures. Projects that facilitated the participation of the affected communities from the planning phase ensured more satisfaction among those resettled and prevented conflicts during project implementation. Urban projects that offered housing solutions developed with the participation of the affected families led to successful and conflict-free relocation. Successful resettlement programs adopted agile, transparent, and accessible communication channels (such as using the local radio and relying on public events and regular meetings), and in some cases established field offices at the resettlement sites.

6.3.5 Monitoring

The environmental licensing process and Brazilian legal frameworks applicable to resettlement do not explicitly require monitoring and evaluation of resettlement programs. However, the environmental licensing process requires the mitigation of social impacts, such as resettlement. Therefore, the license grantor has the mandate to require resettlement plans and to ensure that the implementation of plans is monitored and evaluated.

6.4 Major Issues and Challenges in the Current System

The 1988 Constitution guarantees land ownership as a fundamental right. The Constitution recognizes customary land rights of the indigenous groups (to be described in more detail in Chapter 7). In addition, Brazilian law allows land acquisition through unchallenged possession for a specified number of years. Also, the Constitution and the Land Statute allow for the compulsory acquisition of idle or underutilized land in the public interest (in Brazil, understood as interests of the state or government) or for redistribution to the landless with compensation to the landowner. However, in the event of a land-taking, such owners are often entitled to meager compensation.

In this case, the owner may obtain some compensation, such as the concession of the right to occupy another property instead of that which he/or she is losing. Where the public administration or others have provided the necessary infrastructure, the respective contracts shall specify that the resulting right of surface must be transferred to the population occupying the area.

Article 5(X) of 1988 Constitution recognizes the inviolable right to privacy and to compensation for property damages. The right to property is recognized as a fundamental right as long as the property fulfills its social function. The law provides for an expropriation procedure for the public necessity or social interest, but fair compensation shall be paid in case of expropriation. However, there are no provisions on evictions in the Constitution. More

detailed discussions of the gap between the currently existing regulations and JICA Guidelines for environmental and social considerations, recognized in events of expropriations, are summarized in following section.

Gap Analysis Between the Existing Domestic Regulations, the JICA Guidelines for Environmental and Social Considerations, and the World Bank Safeguard Policy

In Brazil, there is no specific Legislation regulating the resettlement plan although some projects financed by international institutions follow their guidelines, such as WB and IDB, as mentioned earlier. The land expropriation and resettlement, caused by development project, is one of significant land dispute and conflicts. Overall environmental and social considerations, paid to PAPs, needs more efforts to catch up with levels of those of reputable international standards such as WB.

Land Disputes and Conflicts

As described earlier, Brazil's Constitution and the Land Statute allow for the compulsory acquisition of idle or underutilized land in the public interest. In Brazil, the systematic land acquisition legal framework has been already established and its relevant compensation is paid to PAPs to some extents although that compensation scheme sometimes does not cover fully (e.g., losses of business and/or job opportunities, associated with the relocation to new sites).

The land expropriation and resettlement, caused by the development project, is still one of significant land dispute and conflicts. Basically, the Government of Brazil is good to secure the land for any development projects, but overall environmental and social considerations, paid to PAPs, needs more efforts to catch up with levels those of reputable international standards. Among of them, the involuntary resettlement is one of significant issues. Sometime, the land expropriation and relevant demolition of PAP's properties are taken place before resettlement sites are not prepared yet. Eventually, some of those vulnerable people migrate into urban area and would make worse the environment and safety therein.

Involuntary Resettlement

Regarding the involuntary resettlement, WB (OP 4.12 Annex A), IDB (OP-710) and JICA have same principle/or policy in order to make each assistances sustainable, and request recipient nations to pay attentions to those policies through the entire project implementation cycle. In Brazil's case, the involuntary resettlement of vulnerable peoples such as illegal squatters without proper land title, is still controversial although some small improvement signs to tackle current resettlement practice have been recognized recently.

In last November 2013, WB and IDB held joint meeting with the Ministry of Cities (MC), the Government of Brazil, in order to share same understanding of current involuntary resettlement-related issues in Brazil. In that meeting, MC reported that MC has revised its own Ministry's land-expropriation-related code, incorporating both WB and IDB's relevant involuntary resettlement policies, and then, new expropriation regulation was enacted in order to apply only for this ministry's urban development project. The preparation of this new code was initiated 2 years ago, and main features are i) planning of all MC-urban development project shall take participatory approach, (ii) pay appropriate and enough compensation to land title-less vulnerable people. In the long term, the concept of this MC's new expropriation regulation is expected to be disseminated to other ministries eventually while being incorporated into the future environmental and social clearance process at both State and Municipality levels in Brazil.

In ODA projects, the land take, required for the construction of the infrastructure development project, is one of the undertakings of the Government of Brazil. However, occurrences of many disputes and/or conflicts relating to the land take negotiations of private properties such as houses, shops and agricultural land due to development projects have been reported across the entire country, and some of those projects are suspended for the time being although the relevant legal framework for the land expropriation is clearly specified in Brazil.

Project proponents should follow the JICA Guidelines. As mentioned above, it is important to develop comprehensive RAP-related ToR at the early planning stage while conducting a relevant follow-up study to monitor PAPs such as vulnerable peoples. That follow-up study shall be conducted as the joint study of both Brazilian C/P and JICA in future JICA-funded development project. Also, it is essential to establish proper information disclosure and stakeholder meeting framework prior to land take process and design of this framework shall be conducted through series of discussions between Brazilian C/P and JICA.

Chapter 7 Indigenous People, and Ethnic Minority Groups

7.1 Social and Economic Situation

7.1.1 Background

In Brazil, minority groups include Afro-descendants (at least 40 %), Japanese (1 %), various indigenous tribe groups and Jews (data: Instituto Brasileiro de Geografia e Estatística 2000, UNDP). Figure 7.1.1 shows the distribution of indigenous tribe communities and its relevant protected areas in Brazil. Brazil currently has 197 forest-dwelling indigenous groups, living either on reservations or in one of four national parks. Among of them, Quilombora (part of Afro-Brazilian: note that Quilombola communities are descendants of slaves who fled Brazil's cotton plantations in the 19th century¹) is one of dominant ethnic minorities in Brazil. Figure 7.1.2 shows the number of certified Quilombora's communities by State in Brazil. More detailed descriptions of legal protection of those indigenous tribe and ethnic minority are described in following sections.

The Guardian, http://www.theguardian.com/global-development/gallery/2013/jun/24/brazil-Quilombola-land-rights-in-pictures

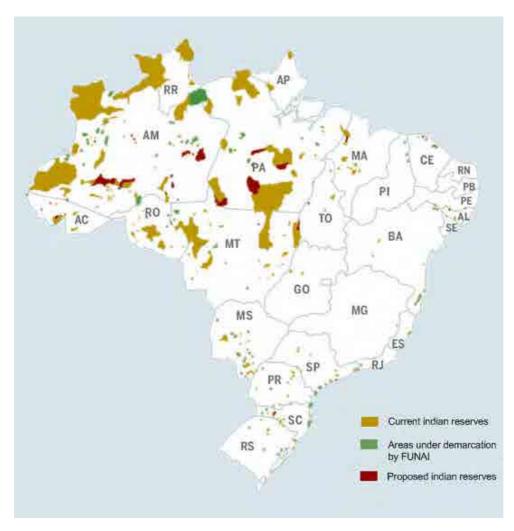


Figure 7.1.1 Distribution of Indigenous Communities and its relevant protected Areas.

Source: Sistema de Monitoramento, http://monitoramento.seppir.gov.br

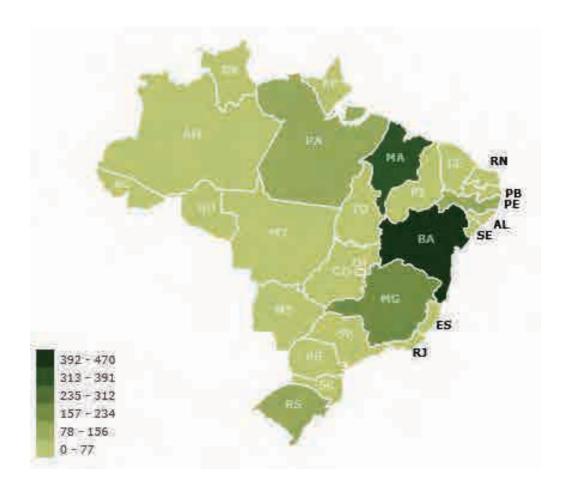


Figure 7.1.2 Number of Registered Quilombola Community

Source: Sistema de Monitoramento, http://monitoramento.seppir.gov.br/paineis/pbq/index.vm?eixo=1

7.1.2 Current Social Situations

(1) Over view of Indigenous Peoples and Ethnic Minority Groups

According to the Instituto Brasileiro de Geografia e Estatística, white people shares 48 % of entire population, and then, Mulato (43 %), Afro-descendants (8 %), Asian (1 %) and indigenous groups (0.4 %). Here, Mulatto is a term used to refer to a person who is born from one white parent and one black parent, or more broadly, a person of any proportion of European and African ancestry². Figure 7.1.3 show the ethnic and minority composition of Brazil. Table 7.1.1 summarizes ethnic and minority composition at both urban and rural areas in Brazil.

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² Wikipedia, http://en.wikipedia.org/wiki/Mulatto

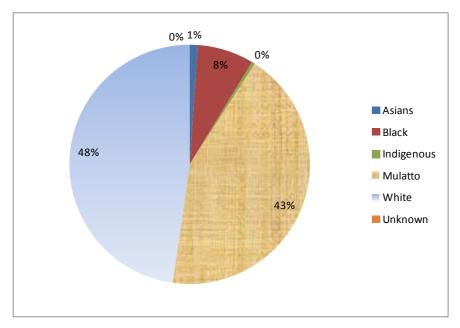


Figure 7.1.3 Population distribution by racial and/or ethnic groups

Note: total population is of 1,90,755,799 (see Table 7.4.1)

Source: UN Statistics Division, 2011

Table 7.1.1 National and ethnic group in Brazil

	Urban	Rural	Total
Asians	1,803,377	280,911	2,084,288
Black	12,430,469	2,087,492	14,517,961
Indigenous	315,192	502,771	817,963
Mulatto ³	66,158,924	16,118,409	82,277,333
White	80,212,529	10,839,117	91,051,646
Unknown	5313	1,295	6,608
Total	160,925,804	29,829,995	190,755,799

UN Statistics Division, 2011

Brazil currently has 197 forest-dwelling indigenous groups, living either on reservations or in one of four national parks. According to the 2000 Brazilian Demographic Census, about 730,000 people or 0.4 % of the total population identified as indigenous. Nevertheless many non-governmental organization (NGO) leaders and scholars dispute these numbers and opt to use the 0.2 % figure from the 1991 Census (Note: the entire population, summarized in 1991 Census is of 146,917,459⁴). Although over half of the indigenous population is concentrated in the northern Amazon states and the north-east of the country, there is also considerable indigenous population in the states of Mato Grosso do Sul and São Paulo, where 8.6 and 7.3 % of the total indigenous population reside respectively according to the Instituto Socioambiental.

It is reported that Afro-Brazilians are the majority in the north-eastern states. Large agricultural plantations and slave ports dominated this warm temperate region, but black people are also

³ Term to refer to a person born from one white parent and one black parent, or more broadly a person of any proportion of European and African ancestry.

Wikipedia, http://en.wikipedia.org/wiki/Demographics_of_Brazil

well represented in major industrial metropolitan areas throughout the country.

(2) Japanese Brazilian

Excluding the period 1941-50, Japanese migration to Brazil has continued uninterrupted since 1908. By the 1980s their numbers had reached 750,000. Today, Brazil has the largest Japanese-descendant population outside of Japan, and there are strong ties between the two countries. Prior to 1914 the majority of Japanese immigrants were contracted laborers. Later, efforts were made to establish agricultural colonies. Many also worked on coffee plantations. Although they were the subject of popular protest by xenophobic elements in Brazil in the early 1900s, Japanese and their descendants have become acculturated and accepted into middle-class society; trends in social mobility, industrialization and urbanization contribute constantly to this process. The largely Japanese-descendant Liberdade neighborhood (Little Tokyo, located in Sao-Paulo) is a strong example of the Japanese-descendant presence in the heavily industrialized city of São Paulo. Mixed marriages among Issei (first-generation immigrants) are almost unknown, although they are common among second- and third-generation immigrants in urban areas.

(3) Jewish Community

Brazil's Jewish population lives mainly in São Paulo, Rio de Janeiro and Porto Alegre, with small communities in Pernambuco, Bahia, Belém and Manaus. Since 1945, Jews have played a part in all areas of Brazilian political, economic and military life. Historically anti-Semitism was not a major social problem in independent Brazil, and Jewish communities were able to retain their religion while serving in public life, unlike in neighboring countries, such as Argentina, where conversion was required in order to obtain high-ranking positions in the military and government.

Brazil has several neo-Nazi, anti-Semitic organizations, active since the 1930s. Carecas ("skinhead" in English Translation) groups operate in Brazil, mainly in the cities of Rio de Janeiro and São Paulo. The Confederação Israelita do Brasil (CONIB), founded in 1951, represents all the Jewish federations and communities in Brazil and campaigns against anti-Semitism in the media and more generally in Brazil.

7.2 Legal Framework and Relevant Organisations

7.2.1 General View

On the international level, Brazil is part of the following conventions relevant to indigenous people and ethnic minorities' rights:

- International Convention on the Prevention and Punishment of the Crime of Genocide (ratified in 1948),
- International Convention on the Elimination of All Forms of Racial Discrimination (ratified in 1965),
- International Covenant on Civil and Political Rights (ratified in 1966),
- International Covenant on Economic, Social and Cultural Rights (ratified in 1966),
- Convention on the Elimination of All Forms of Discrimination against Women (ratified in 1979),
- Convention on the Rights of the Child (ratified in 1989),
- ILO 111 Discrimination (Employment and Occupation) Convention (ratified in 1958),
- ILO 169 Convention Concerning Indigenous and Tribal Peoples in Independent Countries (ratified in 1989),
- ICC Rome Statute of the International Criminal Court (ratified in 1998),
- American Convention on Human Rights (ratified in 1969),
- Additional Protocol to the American Convention on Human Rights in the area of Economic, Social and Cultural Rights (ratified in 1999).

On the national level, the Brazilian 1988 Constitution along with the Law 7716 of 1989 and the Law 9459 of 1997 includes indigenous and ethnic minorities rights and criminalizes acts of racism with high penalties of imprisonment to protect the existence of minorities.

Racial Whitening or "Whitening" is an ideology that was widely accepted in Brazil between 1889 and 1914⁵. This past Brazilian policy of 'whitening' has denied the existence of ethnic minorities⁶. Those unable to express themselves in the national language have been banned from voting. Since the United Nations World Conference against Racism, Xenophobia and related forms of Intolerance held in Durban, South Africa in 2001, Brazil has taken important steps to recognize the diversity of the nation, although the country still has a long way to go in order to reach racial equality.

In Brazil, the voting is compulsory for all literate citizen over 18 years old, and optional to a) illiterate people; b) people over 16 and under 18 years old, and c) over 70 years old. As the voting is compulsory in Brazil, indigenous people are obliged to vote if they are more than 18 years old and if they are literate in Portuguese. The Electoral Code (Law No. 4.737/1965) prohibits voter registration of those who do not speak the national language (i.e., Portuguese). So, the indigenous people, sometime, decide not to vote. This is because indigenous people have the constitutional right to live according to their uses, customs and traditions. According to the Statute of Indian (Law No. 6.001/1973), the Indians are considered in three categories of

Wikipedia, http://en.wikipedia.org/wiki/Racial_whitening 6 UNHCR, refworld, http://www.refworld.org/docid/4954ce5a23.html

civilization: a) the isolated, who have little or no contact with the society, b) in the way of integration, who are in permanent contact with society, while preserving their customs, and c) the integrated, recognized in the full exercise of civil rights.

Lands right entitlements for Afro-Brazilian, in particular, Quilombola communities, are legally recognized in Brazil through the 1998 Constitution. For example, this new constitution granted the Quilombolas, one of the most important afro-descendant groups in Brazil, the right to the title on their land. The constitution also mandates the protection and preservation of these federally-certified lands (or Quilombos) by creating a specific institution devoted to assisting in the titling process. Table 7.2.1 summarizes key legal codes regarding the protection of indigenous and Quilombo communities.

Table 7.2.1 Summary of Key Domestic Legal Codes

Code	Descriptions
Statute of Indian (1973)	This statute is the name attributed to Law 6.001. Promulgated in 1973, it contains rules on the relations of the state and Brazilian society with the indigenous communities. In general lines, the state followed a principle established by the old Brazilian civil code of 1916, that the Indians are "relatively capable", and should be tutored by a state indigenous institution, (from 1910 to 1967) the Serviço de Proteção ao Indio/SPI; currently Fundação Nacional do Indio, (FUNAI) until they are fully integrated in the national community, that is, integrated in Brazilian society. This statute has been revised several times, most recently in 1996.
Normative Instruction No 1 of January 9, 2012	This instruction state rules on the involvement of FUNAI within environmental licensing process or relevant activities within the development projects that would affect the socio-cultural activities of indigenous land. Article 3 mentions that FUNAI shall conduct relevant social assessment for the development project of concerns regarding following aspects, I. Precaution for socio-biodiversity; II. The autonomy of indigenous peoples; III. Respect their social organization, customs, languages, beliefs and traditions; IV. The rights to the lands they traditionally occupy by the Indians; V. The exclusive use of the wealth of the soil, the rivers and the lakes existing in indigenous lands; VI. The prohibition of the removal of indigenous peoples from their lands, except in cases provided constitutionally VIII. The free participation of indigenous peoples, through appropriate procedures, respecting their traditions and representative institutions; IX. The cooperation with indigenous peoples; X. The prevention and mitigation of environmental and socio-cultural impacts Article 19 mentions that the issuance of the installation permit is subsidized by the adoption of the Indigenous Component of the Basic Environmental Program (PBA).
Decree #5051/2004	fully complied with the ILO Convention 169. Article #1 of Decree #5051/2004 defines indigenous tribes within an independent country, according to the set of social, cultural and economic conditions which can distinguish them from other sectors of the national collectivity.
CONAMA Resolution 237/97	Define the basic characteristics of the EIA process in Brazil.
Decree 3.912 (2001)	The first presidential decree to implement regulations for titling of Quilombo land. Although purporting to implement Article 68 of 1988 Constitution's Temporary Constitutional Provisions Act (ADCT), this decree dramatically limited the possibilities for Quilombo recognition because it only recognized land that had been occupied by Quilombos in 1888—the year slavery was abolished—and that was still occupied by descendants of those Quilombos on October 5, 1988, the date of the new Constitution.
Decree 6.261 (2007)	Executive order issued in late 2007, deepened and institutionalized the basic goals and precepts of the Quilombola Social Agenda. Also, emphasizes access to land, infrastructure and quality of life, development, and citizenship.

Concerning lands of indigenous people, the Brazilian Constitution has a specific definition

stating that "lands traditionally occupied by Indians are those on which they live on a permanent basis, those utilized for their productive activities, those indispensable to the preservation of the environmental resources necessary for their well-being and for their physical and cultural reproduction, according to their uses, customs and traditions. In respect to the protection of indigenous territories, the Brazilian Constitution contains specific State duties to demark indigenous territories. Concerning constitutional rights over existing natural resources in indigenous lands, it has also established differentiated rights according to the type of natural resource". In respect to land, river, and lake resources, indigenous people have the right to use and enjoy these natural resources. They also have the right to consult with the government with respect to hydraulic or mineral resources.

Concerning indigenous languages, the Brazilian Constitution contains also specific articles. Brazil recognizes the existence of indigenous languages as part of their national heritages.

7.2.2 Planning of Development Projects and Indigenous People

In Brazil, any development project that would cause negative impacts on properties and/or lands of indigenous tribes requires EIA/RIMA study and IBAMA is the agency responsible for the environmental license approval (not a state environment agency) since issues related with indigenous tribes are always dealt by Federal Agencies (Article 6 of Normative Instruction No. 1, 2012).

Also, Article 18 of this normative instruction mentions that FUNAI will give the final opinion regarding the Preliminary License (LP) after appropriate tribe community meeting are held while sending an official letter to IBAMA. If the study is approved (or approved with minor revising), then entire project can move forward to another step (preparation for the LI). Otherwise, relevant studies with revised ToR shall be conducted again until its approval.

Article 19 mentions that the Indigenous Component of the Environment Basic Program (PBA – Programa Básico Ambiental) shall be conducted for the preparation for the LI. During the licensing process, IBAMA conduct a series of discussions with relevant environmental agencies (OEMAs) involved in the licensing, IPHAN, FUNAI, PALMARES, control unit of endemic diseases (Secretariat of Health Surveillance, Ministry of Health), and others.

In the licensing process, environmental studies are prepared by the project owner, and then, be submitted to IBAMA for their analysis and approval. For each stage of licensing specific environmental and social studies must be prepared. To subsidize the LP step, in case to expect significant potential negative impacts, the project owner shall pass forwards EIA/RIMA study

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^{7 (}Constituição Federal [C.F.] [Constitution] (Braz.) Art. 231, § 1, translated in CONSTITUTIONS OF THE WORLD: FEDERAL REPUBLIC OF BRAZIL 125 (Gilbert H. Flanz & Patrice H. Ward eds., 2004)

reports to IBAMA.

By the same token, in order to subsidize the LI process, the project owner shall prepare the Basic Environmental Plan (PBA) detailing the environmental programs necessary to minimize the negative impacts and maximize positive impacts identified within the EIA study.

To subsidize the LO process, the project owner shall prepare a series of reports describing the implementation of environmental programs and mitigation measures established during LP and LI phases.

7.3 Procedures and Relevant Organizations

The Brazilian Government has established the Special Secretariat for the Promotion of Racial Equality (SEPPIR) at the ministerial level to deal with its non-discrimination policy. SEPPIR works closely with the National Council of Racial Equality Promotion, consisting of 20 representatives of civil society, including representatives of ethnic and religious minorities, and government actors.

The Palmares Cultural Foundation, a public organization established by the 1988 Constitution and linked to the Ministry of Culture, was created to promote and protect afro-descendent culture in Brazil and secures the land titles for afro-descendant communities. By 2006, the foundation had identified "743 Quilombola communities, 42 of which have been officially recognized and 29 of which have received titles. The organization formulates and implements policies that enhance the participation of afro-descendants in the country's development process, and has contributed to important advances in the recognition of ethnic minorities' rights to land and natural resources.

In Brazil, the 2005 Common Country Assessment (CCA) includes a chapter on "Racial and Ethnic Discrimination: Reducing Exclusion and Vulnerability", outlining the government's weak responses to the effects of racism and discrimination. This contributed to the elaboration of the United Nations Development Assistance Framework (UNDAF) outcomes.

The Inter-American Commission, an institution created by the American Human Rights Convention in 1959, legitimized indigenous peoples' demands and offered a progressive interpretation of Article 2 of the American Declaration, and Article 1 of the American Convention on Human Rights (ACHR), to resolve those cases by ordering states to protect and guarantee indigenous and ethnic minorities' collective rights. It has also created a Special Rapporteur on the Rights of Persons of African Descent and Racial Discrimination. This Special Rapporteur has conducted one informal country visit to Brazil in 2005.

The Inter-American Court of Human Rights, another institution established by the ACHR, has made a number of important decisions impacting on the rights of minorities in the Americas. In Brazil, in 2006, the Commission examined the case of Simone André Diniz vs the Republic of Brazil. The case concerned racial discrimination against the applicant in applying for a job and the failure of the justice system to adequately investigate her complaint. The Court found that the State of Brazil had violated the applicant's right equality before the law, the right to judicial protection and the right to a fair trial. The case exposed long-standing systematic failures in Brazil to implement its own stringent domestic laws against racial discrimination. In its recommendations, the Court has urged the government to make the legislative and administrative changes needed so that the anti-racism law is effective and to promote awareness campaigns against racial discrimination and racism.

The Human Rights Committee also identifies gaps in Brazil's reporting and requests information about minority communities who have been neglected by Brazil (e.g., in relation to the Romani community in Brazil in 2005). The following table lists other relevant minority based and advocacy organizations in Brazil.

Table 7.3.1 Minority based and advocacy organizations in Brazil

No.	Organization's name		
In rel	In relation with Afro-Brazilians		
1	CEERT (Centro de Estudos das Relações de Trabalho e as Desigualdades)		
	http://www.ceert.org.br/		
2	Criola		
	www.criola.org.br		
3	Geledés – Instituto da Mulher Negra		
	www.geledes.org.br		
4	Instituto Steve Biko		
	http://www.sbf.org.za/Main_Site/index.php		
5	Integrare		
	http://www.integrarebrasil.com.br/		
6	Mulheres Negras		
	http://www.mulheresnegras.org/		
7	Soweto Organização Negra (Black Human Rights NGO)		
	http://www.soweto.com.br/		
	In relation with indigenous people		
1	Coordenação das Organizações Indigenas da Amazonia		
	https://www.socioambiental.org/pt-br/noticias-socioambientais/coordenacao-das-organizacoes-		
	indigenas-da-amazonia-coiab-elege-nova-diretoria		
2	Instituto Socioambiental		
	https://www.socioambiental.org		
3	Kanindé		
	http://www.kaninde.org.br/		
4	Survival International		
	http://www.survivalinternational.org/		
5	Reporter Brazil		
	http://reporterbrasil.org.br		
Course	World Directory of Minorities and Indigenous Peoples		

Source World Directory of Minorities and Indigenous Peoples

Table 7.3.2 summarizes major process of registering the indigenous areas in Brazil.

Table 7.3.2 Registration Process of Indigenous Reserves

Process	Descriptions	
1. Identification	Study by a working group of FUNAI of the original borders (anthropological studies, legal and historical documents, conversations, archaeology, sociology etcetera). The study report has to be approved by the president of FUNAI. After publication of a summary of the report in the State Newspaper, anyone interested can dispute this FUNAI report up to 90 days. Then, FUNAI has 60 days to elaborate opinions about the arguments of the interested and hand the report over to the Ministry of Justice.	
2. Declaration	Ministry of Justice has 30 days to declare the spatial scale of the indigenous area.	
3. Demarcation	Physical delimitation of the indigenous area.	
4. Homologation	President of the Republic puts his signature to approve the demarcation of the proposed reserved area.	
5. Registration	Indigenous area is officially registered in the notary office (within a maximum of 30 days after homologation).	

(Source: Gesellschaft für bedrohte Völker, http://www.gfbv.de/inhaltsDok.php?id=975)

7.4 Affirmative Actions

On the education level, affirmative action policies have been in place since 2001 in Brazil to increase the enrolment of Afro-Brazilians in tertiary education. As for the non-discrimination policy, various forms of affirmative actions for Afro-Brazilians and other ethnic groups have been introduced such as support to business development by Afro-descendants, job training and targeted social programs for predominantly Afro-descendants neighborhoods.

Brazil has also reduced the migration of many Afro-Brazilians and minority groups in urban slums by adopting several programs and actions directed towards the diversification of the form of access of housing such as building of houses for residents in land reform settlements, indigenous and Quilombola (slave descendant) communities, in addition to the supply of direct subsidies to the poorer population.

In 2005, the UN Country Team (UNCT) Brazil adopted a specific UNDAF outcome aimed at combating discrimination by building capacity, promoting participation and increasing accountability. This UNDAF tries to address the main reasons why, although living in a rich country with outstanding potentialities, a high proportion of Brazilians still face systematic constraints to enjoy their human rights. Despite profound reforms, inequality – between the rich and the poor, men and women, white, black and indigenous people, between regions and between generations – remains as a central national characteristic. The realistic United Nations contribution to advance human development requires the concentration of efforts on those issues that may help change this scenario and may result in the social inclusion of the excluded and the vulnerable. Such efforts should necessarily focus on promoting the equal access to public services, ensuring gender and race equity, reducing vulnerability to violence, promoting transparent policies and human rights, and supporting more sustainable economic development – the five UN priorities for the next programming cycle (2007-2011).

The following table summarizes the Brazilian Program Outcome 2 in relation with gender and racial/ethnic inequalities, the second UN priority. The means to achieve the reduction of gender, racial and ethnic inequalities are described in four country program outcomes (2-1~2-4), which express the need to strength capacities on gender and race mainstreaming, i.e. incorporation of a gender and race perspective into legislation, policies and programmes, during the design implementation, monitoring and evaluation stages; enhance institutional capacity of organizations that fight for gender and race equality; improve capacities by women and youth organizations, as well as by organized groups of black and indigenous peoples to participate in all decision making platforms; enhance competences of institutions to promote equal opportunities for women, black and indigenous peoples of all income levels to access education, health and employment, where inequalities are more acute. Table 7.4.1 summarizes major outcome of several social program for the protection of ethnic and/or racial minority in Brazil.

Table 7.4.1 Brazilian Program Outcome

Name Main Outcome		
Name	Major Outcome	
National priority	Main goal 1: social inclusion and reduction of social inequalities Challenge 8: Promote reduction of racial inequalities Challenge 9: Promote reduction of gender inequalities	
UNDAF Outcome 2	2. Gender and racial/ethnic inequalities are reduced, taking into account territorial heterogeneities	
Brazil Program Outcome (Country Prog	gram Output)	
2.1 Increased mainstreaming and crosscutting of the gender and racial/ethnic dimension in their design, implementation, management, monitoring and evaluation of policies and programs.	2.1.1 Public manages and social players trained in mainstreaming the gender and racial/ethnic dimension in design, implementation, management, monitoring and evaluation of policies and programs. 2.1.2 Government and non-government agents trained in conception, generation, analysis and use of data and indicators disaggregated by sex, race/color and ethnicity. 2.1.3 Society and governments informed and sensitized in ensuring gender and racial/ethnic equality rights, including for refugees and asylum seekers.	
2.2 Increased political institutional, managerial and financial capacity of government and non-government spheres in the promotion of gender and race equity.	2.2.1 Institutional capacities developed in the implementation of international commitments and national, state and municipal plans related to gender, race, refugee and ethnic issues. 2.2.2 Strengthened advocacy capacities and non-government networks and institutions in the promotion of gender, racial and ethnic equity.	
2.3 Increased participation of youth, women, blacks and ethnic minorities in public and private decision-making spheres.	2.3.1 Enhances Institutional capacities in the implementation of legislation and mechanisms for increased political participation of women, youth, blacks and indigenous people. 2.3.2 Mechanisms for promotion of diversity and of participation of women, youth and blacks in the decision-making levels of companies implemented and disseminated.	
2.4 Equal opportunities of access to education, health services and decent work for women, blacks, and ethnic minorities increased (including refugees and asylum seekers).	2.4.1 Strengthened institutional capacities in promoting equal opportunities of access to education, health (including HIV prevention and care) and decent work for women, youth, blacks, refugees and ethnic minorities. 2.4.2 Increased institutional capacity, including that of empowers and workers organization, in combating gender and racial/ethnic discrimination, as well as discrimination against refugees.	

Source The UN in Brazil: UNDAF 2007-2011, UCNT Brazil, December 2005

Some general action plans related to minority groups on specific health sector were also achieved in Brazil. For example, the National Pact to Reduce Maternal Mortality included

specific objectives for "the inclusion of gender, race and ethnicity considerations in all strategies and measures", and "the consideration of social inequalities in decision-making processes". Brazil now includes census questions that allow the population to self-identify as indigenous if they wish. This helps with the data collection concerning the indigenous population.

7.5 Major Issues and Challenges in the Current System

7.5.1 Issues concerning the Afro-Brazilians

(1) Census

Although the country has been collecting data on race since the 1872 Census, the information did not shed light on the socio-economic condition of Afro-descendant groups, because data sets were limited and difficult to compare across years. Afro-Brazilians are categorized in the census as mixed race, pardo or preto. In the 1980s and 1990s Afro-Brazilian activists tried to influence the population to recognize their African ancestry and not to deny their blackness. Black movement groups also analyzed the census data independently and found significant socio-economic gaps between racial groups. The data demonstrate the close correlation between people of African origin, whether they are classified as preto or pardo, and poverty.

For practical and political purposes, most researchers, academics and activists use this combined data for all Afro-descendants because the socio-economic indicators show significant differences between Afro-descendants (pretos and pardos) and whites in Brazil, and little difference among people of African descent.

(2) Socio-economic Inequality

Afro-Brazilians are about half the population, but their economic participation is only 20 % of the GDP. Unemployment is 50 % higher among Afro-Brazilians than among whites, and blacks who are employed earn less than half of what whites earn. The majority of Afro-Brazilians (78 %) live below the poverty line compared to 40 % of whites, and the life expectancy of African-descendants is only 66 years compared to 72 years for European-descendants. Half of all blacks are illiterate, while less than 20 % of whites are unable to read. Only 4 % of Afro-Brazilians between the ages of 18 and 24 have attended a university, compared to 12 % of whites. The heated debate about affirmative action in higher education only impacts 25 % of the current African-descendant population, because the vast majority of Afro-Brazilians have less than 11 years of formal schooling; 40 % of blacks have completed less than seven years of schooling, and are therefore ineligible for college admission.

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 $^{^8}$ Corinne Lennox, State of the World's Minorities and Indigenous Peoples 2013, Addressing health inequalities in the post-2015 development framework

The statistics disaggregated by race widely available throughout Brazil demonstrate a consistent socio-economic gap between blacks and whites due to discrimination in every aspect of society. Recent data from the Institute of Applied Economic Research (IPEA) and the UNDP, for example, demonstrates that Afro-Brazilians, regardless of level of education, position or title, are far much more likely to experience downward socio-economic mobility than whites. Race and poverty are strongly correlated, in large part because racial discrimination causes poverty.

(3) Human Rights

A report by the UN Special Rapporteur on Torture found that most victims of torture in Brazilian prisons were of Afro-Brazilian descent. According to the US Department of State, Afro-Brazilians receive higher sentences than their white counterparts for the same crime, and are more likely to suffer discrimination in prison. The IPEA found that black people were at least twice as likely to be killed by the police than whites in cities like Rio de Janeiro. The situation of blacks in the criminal justice system in Brazil could be far worse than the data indicate. The Institute for Religious Studies (ISER) found that police homicides were twice as high as officially reported and that, in the majority of the cases investigated (64%), the victims were shot in the back at close range - and most of these victims were of African descent. In Rio de Janeiro a hot line established to track racist discrimination during a two-year period found 104 cases of discrimination in the criminal justice system. The police, who operate with impunity, considered this an unusually high number because most individuals do not report these crimes out of fear of retaliation⁹. In Rio de Janeiro 80 % of robbery victims did not register the crime with the police because they were afraid to interact with police officers and 76 % of citizens thought that the police force as a whole was directly involved with death squads terrorizing black communities. Afro-Brazilians are gravely impacted by serious crime; death by homicide is 87 % higher among African-descendants than in the population as a whole.

Since the UN World Conference against Racism, Brazil has taken significant measures to increase equality in the region. Edna Roland, an Afro-Brazilian activist was an important contributor to this process and was designated a conference rapporteur and a UN eminent expert on African-descendants. One of the major results of the conference in Brazil was the formation of the Secretariat for the Promotion of Racial Equality, SEPPIR, with over 150 staff members and over 200 racial inclusion initiatives. Led by Minister Matilde Ribeiro, this office is responsible for Brazilian inclusion policy for black people and closely follows the nation's policy towards Africa. SEPPIR is a significant step forward, and the minister has been effective at influencing other ministries to take on projects to promote the inclusion of black people. Despite the success of SEPPIR, the government has not fully embraced the importance of social

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⁹ World Directory of Minorities, Human rights chapter, http://www.minorityrights.org/?lid=5285&tmpl=printpage

inclusion at the most senior levels of government. Promoting racial equality in Brazil means facing the daunting task of including the majority of the population in society; therefore it must be viewed as a core activity by the government and provided with substantial financial and political resources.

Brazil has also sought a role as an international leader on issues of race. Brazil has taken a leadership role in the Inter-American Court of Human Rights at the Organization of American States (OAS). Brazil is the sole supporter of the Special Rapporteur for African-Descendants, a position held by Dr Clare Roberts, former president of the Inter-American Court. Brazil has also taken the lead on the Inter-American Convention against Discrimination, which is currently under consideration by the Inter-American Court of Human Rights and has been strongly opposed by the US government. This convention attempts to provide black people with a regional mechanism to redress human rights violations throughout the Americas. Currently, a case of racial discrimination must be tried as a generic human rights violation, because there is no statute that oversees cases of racial discrimination in the OAS. The creation of the Inter-American Convention is a vital step to provide African-descendants and other minorities with a form of redress in countries where national courts have been reluctant to address racial inequities.

Brazil has also been the leading nation requesting follow-up to the UN World Conference against Racism, Xenophobia, and Related Forms of Intolerance. In 2006, Brazil sponsored the Conference of the Americas, which was envisioned as a continuation of the Santiago +5 preparatory committee session before the UN World Conference. This meeting was well attended by civil society representatives and included a wide range of issues related to discrimination and intolerance.

(4) Land Rights

According to SEPPIR, there are 1,170 recognized Quilombolas heritage communities, but the real total could surpass 3,000. It is noted that Quilombolas (or Qilombos) are colonial-era maroon settlements established by self-liberated African-based who fled to dense jungles or remote mountain regions to escape enslavement and created independent African-based communities. This would represent some 1.7 million people¹⁰. The highest concentrations are in once inaccessible areas of Bahía (north-east), Pará (north), Mato Grosso (west), Goiás (central) and Minas Gerais (south-east). Qilombos also exist in major cities like Rio de Janeiro and São Paulo.

Fugitive African slaves created Quilombos during the seventeenth and eighteenth century.

 $^{^{10}}$ Maurice Bryan, State of the World's Minorities 2008, Americas, p.90

Currently the inhabitants of these communities, 'Quilombolas', continue to struggle to assert their cultural identity and historical ties to these lands. However, while these isolated communities were able to maintain their unique cultural traditions and identities, living conditions in these settlements are often some of the worst in Brazil.

In 2007, 91 % of Quilombo families had monthly incomes of less than US \$190, though the national minimum wage is US \$204/month. A government study shows that the number of malnourished children under the age of five in Quilombos is 76 % higher than among the child population as a whole. Only 3.2 % of Quilombo children have access to sanitation.

Quilombos have been recognized since the mid-1990s under ILO Convention No. 169 and the current programme includes granting collective land titles as well as improving roads and providing sanitation, water, education and health services.

Titling is viewed as all-important since some Quilombos that existed before major cities like Rio de Janeiro and São Paulo were established eventually became absorbed as poor urban neighborhoods.

7.5.2 Issues related with Indigenous Groups

(1) Outline

In this sub-section, issues of indigenous ethnic group (non-Afro-Brazilian) are discussed. In general, indigenous groups are facing issues directly connected to their land dispossession, their health and their working opportunities (agricultural mechanization and use of toxic chemicals reducing their employment opportunities). Before describing specifically some issues by indigenous groups, here is one of the recent 2012 energy expansion projects that indigenous groups are protesting against. It is the Belo Monte Dam construction project on the Xingu River that would pose a great risk to their health and well being according to them. It is noted that the project owner of this hydroelectric dam construction project is Norte Energia consortium, which is led by state-owned electricity company¹¹. Moreover, for indigenous groups, the Xingu River is also regarded as a living entity. Brief outline of major ethnic groups highlighted within Belo Monte Dam construction project are described, separately.

(2) Guarani-Kaiowa Group

In the state of Mato Grosso do Sul in south-west Brazil, violent disputes occurred in 2012 on ancestral lands claimed by the Guarani-Kaiowa, the second largest indigenous group in Brazil

¹¹ Economist, http://www.economist.com/news/americas/21577073-having-spent-heavily-make-worlds-third-biggest-hydroelectric-project-greener-brazil

(around 44,000). According to local media, their lands, having been taken over by large-scale farmers and ranchers, they were forced to live along the roadsides waiting for the Brazilian government to demarcate their ancestral territory. Growing weary of this situation, the indigenous Guarani-Kaiowa community of Pyelito Kue/Mbarakay came back to occupy a small part of their lands. When ordered by the court to leave in October, they publicly threatened to engage in mass suicide to protest their continuing dispossession. In the end, facing the public local and international clamor, the Brazilian government ordered the court ruling to be revoked, allowing the Pyelito Kue Kaiowa families to stay until the demarcation process is completed.

Since 2005, the Brazilian government has recognized indigenous rights to 9,317 hectares of Guarani-Kaiowa territory. However, actual possession has been delayed by litigation and negotiations on landholder compensation. Because of this on-going delay and the state government strong support to agribusiness, those seeking to enlarge their landed estates take over the indigenous ancestral land forcing them of their own territories.

In the Guarani-Kaiowa groups, there is a high rate of suicide because of this continuous land dispossession (a total of 555 suicides between 2003 and 2010 in Mato Grosso, that-is-to-say a suicidal rate of nearly 80 a year). There are also health concerns related to malnutrition since the large-scale agro-industry, including the intensive use of pesticides in the Guarani-Kaiowa areas, is taking part in the destruction of rivers and forests that have traditionally represented indigenous hunting and fishing food survival sources.

(3) Arara Group

Forced relocation and decreasing land plots have threatened the Arará way of life, and many Arará are seeking work from neighboring communities of settlers in order to gain greater material wealth for their families. The forced dispersion of the Arará is causing tension between two registered zones of Arará in the Cachoeira Seca do Iriri IT, a group of 56 Arará, and the Arara IT, where the bulk of the community resides.

Increased access to education has also further eroded the Arará culture. Since 1994 an increasing number of Portuguese-speaking teachers have arrived in the community. As a result, Portuguese is becoming the dominant language for young people, while most elders remain monolingual. The growing presence of missionaries is limiting the passing on of traditional knowledge and beliefs, and contributing to the forced integration of the Arará.

(4) Awa Group

It has taken over two decades to demarcate Awá land. The government and the state-owned mining company received almost US \$1 billion in 1982 from the World Bank to improve mine

transport. Improvements to the railroad system further threatened the Awá way of life as the railway divided the Awá hunting territory. In 1992 the World Bank, sponsored a land demarcation programme for this part of Maranhão, but the land still has not been registered. The railway and the increasing presence of ranchers compromise the Awá's ability to hunt. The Awá people remain on the brink of extinction.

(5) Kayapo Group

The Kayapó have two very different perspectives on outsiders - the Gorotire village has retained mining rights, while Kapot has remained distant from commercial interests. Members of the community have hired whites to mine the land, and Kayapó have sold their products to major international corporations such as the Body Shop. Two Kayapó chiefs, Ropni (or Raoni) and Bepkoroti (Paulinho Payakã), have become international celebrities. The international pop star Sting works closely with Raoni on environmental issues and co-authored a book based on his experiences. Despite the amount of contact the Kayapó have with outsiders, there is still internal tension that has enabled them to retain a level of skepticism about outsiders. This balance may help explain some of the economic and political success of the community.

(6) Makuxi and Wapixana Groups

There is hope that with the recognition of the Makuxi territory on 15 April 2005 by the Brazilian government as Raposa-Serra do Sol, acts of violence will end. At least 20 members of the community died defending their land rights in the 1990s.

(7) Nambiquara Group

The Nambiquara, have conducted their own community census and their population is growing slightly. Medical and educational services are being offered with greater frequency throughout the community, but more support is still needed.

(8) Tikuna Group

In 2004 the sentences were reduced for the man who ordered the Tikuna murders, along with the 14 others tried in absentia. The Tikuna remain threatened and are being persecuted in the region. There has been little information gathered or written on the culture and traditions of this community that faces annihilation.

(9) Tukano Group

The FOIRN (Federation of the Indigenous Organizations of the Upper Rio Negro) has

undertaken several health, education and development projects in the region. They coordinate the DSEI (Special Indigenous Medical District) of the Rio Negro and have hired 200 health workers, of whom 90 per cent are of indigenous origin. Many of these projects have been undertaken with support from the Instituto Socioambiental.

(10) Urueu-Wau-Wau Group

Missionaries are increasing their activities in the community and the local NGO Kanindé has worked to fight against outside influences in the community. The community has limited access to health care and as a result viral and bacterial infections are common. The health condition of the community has been brought to the attention of UNDP and there are nascent government programmes to address the concerns of the Urueu-Wau-Wau.

(11) Yanomami

The increasing influence of military bases at Maturacá, Surucucus and Auaris has generated a host of social problems and prostitution. Migration to Roraima continues from other regions in Brazil, bringing criminal influences. Further, a forest fire that took place in 1998 has made it more difficult for the Yanomami to protect their land boundaries.

Within an interview with the international NGO Survival International, held in September 2007, Davi Yanomami, an indigenous leader of the Yanomami organization Hutukara, spoke out against the government's current proposals to pass a new mining law, which the Yanomami argue will destroy and rob them of their legally demarcated lands, as well as damage their way of life and the health and livelihood of their communities. The Yanomami see the law as threatening to offer a green light to miners to invade their territories and encourage the further amassing of private wealth for multinational companies, while they will remain in poverty.

7.6 Major Issues and Challenges in the Current System¹²

The Brazilian policy of 'whitening' has denied the existence of ethnic minorities. Those unable to express themselves in the national language have been banned from voting. Since the United Nations World Conference against Racism, Xenophobia and related forms of Intolerance held in Durban, South Africa in 2001, Brazil has taken important steps to recognize the diversity of the nation, although the country still has a long way to go in order to reach racial equality.

In response to international pressure, the government has begun to recognize its failings in managing indigenous lands and the limited scope of its actions in indigenous communities.

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¹² UNHCR, refworld, http://www.refworld.org/docid/4954ce5a23.html

Instead of mitigating bad relations with indigenous communities and their advocates, these limited actions have led to new concerns regarding the abandonment of indigenous people by the nation. The demarcation of indigenous land still has not been completed and is a continuing source of conflict. However, the land titling process is moving forward more quickly than in the past, in part due to pressure from the UN Committee on the Elimination of Racial Discrimination, which recommended in 2004 that the demarcation of all indigenous lands be completed by 2007, and that the state party adopt urgent measures to recognize and protect the right of indigenous peoples to own, develop, control and use their lands, territories and resources.

Despite these advances, problems continue throughout the reserves, in part, because the state environmental protection agency has only small number of staff member for protected lands. FUNAI's activities have been severely curtailed in the past due to funding problems, and a lack of political will to register approximately 11 % of the nation's land to the indigenous community, which represents less than 1 % of the population. Where land has been demarcated, the exclusive rights of indigenous peoples to these resources are recognized under Article 231 of the constitution.

7.7 Gap Analysis Between the Present Domestic Regulations, the JICA Guidelines for Environmental and Social Considerations, and the World Bank Safeguard Policy

> Overall protection status

In Brazil, the protection of indigenous communities within development projects has been one of controversial issues, and relocations of indigenous communities due to development activities have frequently occurred before 1974 due to the shortage of enough anthropological knowledge at that time. Currently, there has been a great improvement, and the relocation of indigenous and/or minority communities due to the development project is prohibited except the road construction and the electric transmission line set-up (note that electric transmission line facilities are usually constructed along the road, so that this transmission line project becomes exemption also). Basically, any development projects that would affect properties and/or lands of indigenous tribes shall conduct EIA/RIMA study with close consultation with FUNAI. In that EIA/RIMA study, IBAMA (not state environmental agency) is the environmental administration agency responsible for the examination of the environmental license application process.

➤ Lack of Comprehensive ToR Development at early project Planning Stage

Although an almost comprehensive legal protection system for indigenous communities is

established within the development projects, there are still some social issues regarding the relocation of indigenous tribe communities due to the implementation of the large-scale development projects such as Belo Monte Dam construction project, Para State.

Normative Instruction No 1 of January 9, 2012 specifies the participation process for the indigenous communities within development projects and all meaningful process shall be established through the instructions/or guidance of FUNAI who is authorised to command the environmental licensing process of activities or development projects, that would causes socio, cultural and environmental impacts on indigenous people and lands.

As mentioned earlier, the current ESIA legal system has a weakness to predict or identify potential critical environmental and social factors such as the protection of indigenous tribes at the early planning stage. So, some development projects without appropriate FUNAI's involvement in the beginning tend to be controversial although LPs (Licença Prévia) of projects of concerns are approved. Sometime, FUNAI stepped in the past mega-scale development projects that caused significant negative impacts on indigenous communities and provided guidance to indigenous communities people as well as project owners to mitigate negative impacts on indigenous tribe's communities.

Besides, most of the public participation processes, conducted before the relocation events, are tend to be organized at the later planning stage at when the entire design framework is consolidated and no possibilities to conduct design amendments to mitigate those negative impacts.

In other words, there is no choice but to select the relocation option for some indigenous tribe communities. Although there are vast reserves for indigenous tribes across the northern part of Brazil, some of new relocation sites happened to be the land near to the hostile communities, and triggered inter-tribe wars.

This weakness also are shared among several sectors of central federal government, and new project planning code to encourage the participation or involvement of competent agencies such as FUNAI, PALMERES, IPHAN into the early project planning process are prepared. It is noted that the specific enactment schedule of this new code is not known (as of February 2014).

For the time being, it would be beneficial to strengthen project proponents and donors screening process while establishing close relationship between project proponents and donors and social administration staff of Brazil (e.g., FUNAI and PALMERES) in order to conduct reliable evaluation of significance of potential impacts on indigenous tribe communities, that may be caused by the project implementation and thus, guarantee the overall credibility of the environmental approvals.

Chapter 8 Environmental and Social Considerations in Other Donors' Projects

8.1 World Bank (WB)

8.1.1 Environmental Assessment

(1) Gap Analysis Between the Present Domestic Regulations, and the World Bank (WB) Safeguard Policy

As discussed in Chapter 5, there is no significant difference in the environmental clearance process among Brazil and WB procedures. One of uniqueness in the environmental approval process in Brazil is that there are three different licenses to be obtained before project of concern can start its operation, named LP, LI, and LO.

Recently, several environmental concerns, disputes and/or conflicts, were raised at large-scale infrastructure development projects in Brazil. Those are mainly due to the facts that appropriate program of environmental and social considerations were not incorporated at the early planning stage of the project cycle, and the project owners and/or developers proceeds relevant engineering design works without satisfactory mitigation measures implementation plans. In most cases, those environmental concerns and/or disputes for the large-scale development project were raised after LPs were issued, and then, publicly noticed. Unfortunately, when great public concerns were raised, most of engineering design of development projects was almost close to the final design. So that, what's usually happened are that there is no possibility to amend the design framework in order to reflect concerns, raised through the conflicts among project owners/developer, environmental agencies, NGOs and communities, but delay the entire project cycle such as the postponement of project implementation and operation. In other words, much efforts shall be conducted in order to achieve broad project consensus at the early stage of the project cycle.

WB Environmental and Social unit in Brazil found that actual environmental clearance process, in particular, conduced at state and/or municipality government levels, need more efforts to catch up with relevant WB environmental and social policies. Sometimes, it is observed that the credibility of environmental licenses, approved by some local governments, do not match the WB's environmental policies, and eventually, those projects tend to cause troubles later after those implementations started. So, recently, WB Brazil Office pays more attention to the contents and the quality of EIA/IEE report to be used for the environmental clearance of the WB-funded development project. To achieve this, currently, WB shifts to focus on to implement capacity development program for the environmental administration, conducted at state and municipality level, in order to improve the quality of relevant EIA/RIMA studies, eventually

leading to improvement of the credibility of environmental licenses, issued by those state and/or municipality governments. So, recent WB-funded development projects tend to be "a package type" one that combine soft and hard components altogether while making the entire study period more than several years to improve overall capacity of the environmental reviews to be conducted by C/P officials.

(2) World Bank Safeguard Policy

The WB conducts environmental screening of each proposed project in order to determine the appropriate extent and type of environmental assessment (EA). The WB classifies the proposed project into one of four categories, depending on the type, location, sensitivity, and scale of the project and the nature and magnitude of its potential environmental impacts as follows¹:

- Category A: A proposed project is classified as Category A if it is likely to have significant adverse environmental impacts that are sensitive, diverse, or unprecedented. These impacts may affect an area broader than the sites or facilities subject to physical works. EA for a Category A project examines the project's potential negative and positive environmental impacts, compares them with those of feasible alternatives (including the 'without project' situation), and recommends any measures needed to prevent, minimize, mitigate, or compensate for adverse impacts and improve environmental performance. For a Category A project, the borrower is responsible for preparing a report, normally an Environmental Impact Assessment (EIA) (or a suitably comprehensive regional or sectoral EA), that includes, as necessary, elements of the other instruments referred to in paragraph 7 of Operational Policy (OP) 4.01.
- Category B: A Category B project has potential adverse environmental impacts on human populations or environmentally important areas—including wetlands, forests, grasslands, and other natural habitats—which are less adverse than those of Category A projects. These impacts are site-specific; few if any of them are irreversible; and in most cases, mitigatory measures can be designed more readily than for Category A projects. The scope of the EA for a Category B project may vary from project to project, but it is narrower than that of a Category A assessment. Like Category A, a Category B environmental assessment examines the project's potential negative and positive environmental impacts and recommends any measures needed to prevent, minimize, mitigate, or compensate for adverse impacts and improve environmental performance. The findings and results of an EA for a Category B project are described in the project documentation (Project Appraisal Document and Project Information Document).

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¹ World Bank,

 $http://web.worldbank.org/WBSITE/EXTERNAL/PROJECTS/EXTPOLICIES/EXTOPMANUAL/0,, contentMDK: 20064724 \sim menuPK: 64701637 \sim pagePK: 64709096 \sim piPK: 64709108 \sim the SitePK: 502184, 00. html$

- Category C: A Category C project is likely to have minimal or no adverse environmental impacts and therefore does not require further EA action beyond screening.
- Category FI: Category FI projects are those in which the World Bank provides funds to participating national banks, credit institutions, and other financial intermediaries (FIs) for lending at the FIs' risk to final borrowers. In the case of such projects, the FI screens each subproject proposed for financing and classifies it into one of the three categories A, B, or C.

For all Category A and B projects, the borrower provides relevant material in a timely manner prior to consultation and in a form and language that are understandable and accessible to the groups being consulted (OP 4.01, 14).

Table 8.1.1 Recent WB-funded Projects that Conducted EIA in Brazil

Table 6.1.1 Recent wb-funded 1 Tojects that Conducted E14 in Brazil			
Project Name (ID)	Date of	Description	
Strengthening Service Delivery for Growth, Poverty Reduction and Environmental Sustainability in the State of Ceará PforR (P127463) http://www.worldbank.org/projects/P127463?lang=en	Approval November 21, 2013	Category B The objective of the Program to Strengthen Service Delivery in Skills Development, Early Childhood Development, and Water Quality Project for Brazil is to support the Government to improve public service delivery particularly in the areas of skills development, family assistance and water quality. The operation has two complementary components, a US\$ 315 million Program using the Program-For-Results, or PforR instrument (Program), and a US\$ 35 million technical assistance component using the Investment Project Financing (IPF) instrument. To inform preparation of the State of Ceará's PforR Operation to Strengther Service Delivery in Skills.	
Rio Grande do Norte: Regional	June 25,	Operation to Strengthen Service Delivery in Skills Development, Family Assistance and Water Quality Programs, the WB prepared an Environmental and Social Systems Assessment (ESSA) of existing environmental and social management systems used to address the environmental and social effects of the state government programs selected to achieve the PforR results. Category B	
Development and Governance (P126452) http://www.worldbank.org/projects/P1264 52/rio-grande-norte-regional- development-governance?lang=en	2013	The objective of the Rio Grande do Norte Regional Development and Governance Project for Brazil is to support the borrower's efforts to: (i) increase food security and access to productive infrastructure and markets for family agriculture; (ii) improve the quality of, and access to, health, education and public security services; and (iii) improve systems for public expenditure, human resource and physical asset management in the context of a results-based management approach.	
		Environmental Remark Upon Considering the project scope, objectives, impacts and mitigation measures identified within this EA as part of social and environmental safeguards of the WB, ESIA document is prepared in three volumes: Volume 1 - Report of ESIA; Volume 2 - Mark of the Participation of Indigenous Peoples Policy, and Volume 3 - Marco Involuntary Resettlement while checking compliance with the	

		guidelines issued by the WB.
Rio de Janeiro Strengthening Public Sector Management Technical Assistance Project (P127245) http://www.worldbank.org/projects/P1272 45/rio-de-janeiro-strengthening-public- sector-management-technical-assistance- project?lang=en	June 14, 2013	Category C The objective of the Rio de Janeiro Strengthening Public Sector Management Technical Assistance Project for Brazil is to support institutional capacity strengthening in the Municipality of Rio de Janeiro to enhance public service delivery, including in health, education and environmental management. Environmental Remark
		This project does not support construction or any other activity that demands EIA with exception of the Health Sub-Component which focus mainly on promoting increased quality and efficiency in the use of the health network. One of the vehicles for this increased efficiency is the Primary Health Care Units which generate a modest amount of health care waste (HCW). Final disposal of health care waste is the responsibility of the generator. So, health impact-centered assessment study is conducted while satisfying WB Safeguards.
Sao Paulo State Sustainable Transport Project (P127723) http://www.worldbank.org/projects/P1277 23/sao-paolo-transport-climate-change- disaster-risk-management?lang=en	June 14, 2013	Category B The objective of the Sao Paulo Sustainable Transport Project for Brazil is to contribute to the improvement of the Borrower's transport and logistics efficiency and safety while enhancing the Borrower's capacity in environmental and disaster risk management. The project has three components. The first component is improving transport and logistics efficiency and safety.
SWAn for Parana Multi-sector	November	Environmental Remark One of important project component is to Strengthening sustainable environmental and land use planning and territorial management capacity (Estimated cost of US\$18 million, of which US\$12.6 million financed by the WB Loan). Its aim is to improve environmental enforcement and environment quality monitoring (US\$6.5 million of which US\$4.55 million financed by WB), improve the State capacity to manage and monitor environment through studies, small works and the acquisition of goods aimed at, inter alia: (i) improving environmental monitoring and control of the SMA with a view to strengthen enforcement, through pilot initiatives focusing on innovation, and (ii) strengthening the capacity of the State Environmental Agency (CETESB) in air and water monitoring in the Project area to ensure efficient and reliable data collections on air and water quality. Also, supporting the modernization of the Environmental Licensing System (US\$6.5 million of which US\$4.55 million financed by the WB) while improving the state-wide capacity to efficiently are important task.
SWAp for Parana Multi-sector Development Project (P126343) http://www.worldbank.org/projects/P1263 43/parana-multi-sector-development- project?lang=en	November 6, 2012	The objective of the SWAp for Parana Multi-Sector Development Project for Brazil is to make access to economic and human development opportunities more equitable and environmentally sustainable in the Borrower's territory through the modernization of the borrower's public sector and revenue management. There are two components to the project. The first will co-finance selected government programs (Eligible Expenditure Programs - EEPs) that support the Government of Parana's (GOP's) integrated approach to promoting social and economic development. The second will provide technical assistance to strengthen Public Sector Management (PSM).
		One of important environmental task is to conduct relevant environmental and disaster risk

(DRM) management study. Regarding environmental management, the key goal is to strengthen overall environmental compliance and monitoring by improving the state government's capacity for delivering environmental registering, licensing, and oversight services. In the case of DRM, the aims are to improve the response capacity and identification of risk in short/medium term while developing an integrated disaster risk management policy in a medium/long term. The state government's strategies to tackle these issues translate into two Eligible Expenditure Programs to be supported by this Project. modernization of the Environmental Also. Licensing System is one of important task. This program aims to revise the state procedures for environmental licensing and build capacity in the state environmental agencies in order to strengthen environmental compliance and monitoring. The modernized Environmental Licensing System would ensure that responsibilities for ensuring compliance with environmental legislation are properly allocated and that the necessary data and systems are updated. It will be used to monitor and control productive landscapes, vegetation cover in private landholdings, logging concessions and water rights management.

Source: World Bank,

http://www.worldbank.org/projects/search?lang=en&searchTerm=&countrycode_exact=BR

8.1.2 Current Condition and Problems Related to Implementation of Land Acquisition

(1) Gap Analysis Between the Existing Domestic Regulations and the World Bank Safeguard Policy

As discussed in Chapter 6, the main objective of WB's OP 4.12 Annex A is to make avoid the occurrence of the involuntary resettlement, and thus, to make each assistances sustainable. In Brazil's case, the involuntary resettlement of vulnerable peoples such as illegal squatters without proper land title, is still controversial although some small improvement signs to tackle current resettlement practice have been recognized recently.

In last November 2013, WB and IDB held joint meeting with the Ministry of Cities (MC), the Government of Brazil, in order to share same understanding of current involuntary resettlement-related issues in Brazil. In that meeting, MC reported that MC has revised its own Ministry's land-expropriation-related code, incorporating both WB and IDB's relevant involuntary resettlement policies, and then, new expropriation regulation was enacted in order to apply only for this ministry's urban development project. In the long term, the concept of this MC's new expropriation regulation is expected to be disseminated to other ministries eventually while being incorporated into the future environmental and social clearance process at both State and Municipality levels in Brazil.

WB's OP 4.12 Annex A **(2)**

Acquisition and Involuntary Resettlement in cases where it is not feasible to avoid resettlement, resettlement activities should be conceived and executed as sustainable development programs, providing sufficient investment resources to enable the persons displaced by the project to share in project benefits.

The Resettlement plan must include all the necessary measures to ensure that the displaced persons are²:

- Informed about their options and rights pertaining to resettlement;
- Consulted and provided with technically and economically feasible resettlement alternatives: and
- Provided prompt and effective compensation at full replacement cost for losses of assets attributable directly to the project.
- WB also emphasizes importance of conducting regular monitoring by an External Monitoring Agent to confirm:
- Results of internal monitoring:
- that the compensation process has been accomplished adhering to procedures communicated to project-affected families and indigenous peoples during consultation;
- whether the resettlement entitlements were suitable to the objectives, whether the objectives were suited to the project-affected families, and if livelihood and standard of living were restored or enhanced;
- the affected enterprises received enough assistance to re-establish themselves;
- if vulnerable groups were provided with effective and sustainable income earning opportunities to help restore pre-project income levels.

Resettlement planning includes early screening, scoping of key issues, the choice of resettlement instrument, and the information required to prepare the resettlement component or subcomponent. The scope and level of detail of the resettlement instruments vary with the magnitude and complexity of resettlement. In preparing the resettlement component, the borrower draws on appropriate social, technical, and legal expertise and on relevant communitybased organizations and NGOs.

Over the past decade, Brazil has made significant progress in improving resettlement policy, practice and outcomes. The review found good practice examples related to identifying adverse impacts resulting from land acquisition, comprehensive planning for physical relocation,

http://web.worldbank.org/WBSITE/EXTERNAL/PROJECTS/EXTPOLICIES/EXTOPMANUAL/0,,contentMDK:20064610~menuPK:64701637~pagePK:64709096~piPK:64709108~theSitePK:502184,00.html

² World Bank,

improved consultations with affected people, and good design of land-based economic rehabilitation programs. However, there are additional aspects of resettlement that it needs to tackle to be at par with the best international practice in this area. For example, the resettlement plans are sometimes prepared only to comply with licensing procedures and not properly followed during implementation; projects do not take full advantage of consultations as a tool for developing resettlement solutions and reducing project risks; and the compensation provided to affected persons is not always adequate to restore their incomes and standards of living. The encouraging news is that most of the good practices that can inform improvements are evident within Brazilian projects. The focus now should be to make these good practices systemic, so that it is applied consistently across all projects involving involuntary resettlement.

In order to achieve those goals, Brazil could establish minimum standards on involuntary resettlement. As is common in many countries, land acquisition and involuntary resettlement in Brazil is governed mostly by federal and state legislation on land expropriation. There is no specific national policy or guideline to address physical displacement (relocation) or economic displacement (loss of income sources or livelihoods) of those affected by development projects. At the same time, there is ample scope for policies to be made more consistent across sectors, and practices needs to become more uniform, regardless of the financiers involved. The energy sector stands out as an example of good policies and practices related to involuntary resettlement—primarily because of the experience gained in the sector over the past few decades in the design and implementation of projects involving large-scale resettlement. Table 8.1.2 summarizes recent WB-funded projects with resettlement events in Brazil.

Table 8.1.2 World Bank Projects with Resettlement Events in Brazil

Project Name (ID)	Date of	Descriptions
	Approval	
Rio Grande do Norte: Regional Development and Governance (P126452)	June 25, 2013	See Table 8.1.1
Sao Paulo State Sustainable Transport Project (P127723)	June 14, 2013	See Table 8.1.1

Source: World Bank, http://www.worldbank.org/projects

8.1.3 Current Condition and Problems Related to Considerations for Indigenous Peoples

(1) Gap Analysis Between the Existing Domestic Regulations and the World Bank Safeguard Policy

As discussed in Chapter 7, the protection of indigenous communities within development projects in Brazil has been one of controversial issues, and relocations of indigenous communities due to development activities have frequently occurred before 1974 due to the

shortage of enough anthropological knowledge at that time. Currently, there has been a great improvement, and the relocation of indigenous and/or minority communities due to the development project is prohibited except the road construction and the electric transmission line set-up (note that electric transmission line facilities are usually constructed along the road, so that this transmission line project becomes exemption also).

However, there are still some social issues regarding the relocation of indigenous tribe communities due to the implementation of the large-scale development projects. As mentioned earlier, the current ESIA legal system has a weakness to predict or identify potential critical environmental and social factors such as the protection of indigenous tribes at the early planning stage. So, some development projects tend to be controversial although LPs of projects of concerns are approved.

(2) Project Preparation for Indigenous People

In the WB's Safeguard Policies related to the considerations for indigenous peoples, the following procedures are stipulated³:

- Screening by the Bank to identify whether indigenous peoples are present, or have a
 collective attachment to the project area;
- Social assessment by the borrower. The assessment should include baseline information on the demographic, social, cultural and political characteristics of the affected indigenous peoples' communities;
- Free, prior, and informed consultation with the affected indigenous peoples' communities at each stage of the project, and particularly during project preparation, to fully identify their views and ascertain their broad community support for the project;
- Preparation of an Indigenous Peoples Plan or an Indigenous Peoples Planning Framework;
 and
- World Bank assumes the responsibility of disclosing the information to the public in accordance with World Bank Policy on Disclosure of Information, while the borrower should make it available to the affected indigenous peoples' communities in a culturally appropriate form, manner, and language.

Much has been achieved in Brazil since the 1988 constitution came into force: indigenous people have exclusive and "original" rights to their land and most territories in the Amazon have been recognized; the population of many indigenous groups and communities is increasing; and organizations working in their interests are thriving although there are still relocation of

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³ World Bank, http://web.worldbank.org/WBSITE/EXTERNAL/PROJECTS/EXTPOLICIES/EXTOPMANUAL/0,,cont entMDK:20553653~menuPK:64701637~pagePK:64709096~piPK:64709108~theSitePK:502184,00.html

indigenous tribe communities, due to several large-scale infrastructure development projects (most of them are hydro-electric plant projects) such as Belo Monte Hydropower plant construction project, Para State. This Belo Monte Dam complex is designed to divert 80 % of the Xingu River's flow, devastating an area of over 1,500 km² of Brazilian rainforest while resulting in the forced displacement of between 20,000 - 40,000 people. The project is causing grave and direct impacts to the land and livelihood of thousands of riverine and urban families as well as 1,000 indigenous people from several communities while provoking profound indirect impacts throughout the Xingu basin's communities, rivers, and forests.

8.1.4 Confirmation System for Monitoring

As discussed in Chapter 5, much effort would be required to catch up with various safeguard policies of WB. Speaking of the monitoring, due to the weakness of both screening and relevant ToR development, to be conducted at the early stage of the project cycle, the implementation of follow-up environmental and social monitoring programs and resultant activities, based on domestic regulation, are, sometimes, not comprehensive and not well-organized ones.

The WB has developed a monitoring and evaluation system for use during the project implementation as well as after completion of the project. At first, the WB task team will conduct a mid-term monitoring review. During the course the review, the team's environmental and social considerations specialist periodically (at least twice in a year) visits the field to monitor.

The team verifies compliance with the conditions agreed upon between the WB and the borrower, and the monitoring results done by the borrowers. The WB also stipulates that the borrower reports on:

- Compliance with measures agreed with the WB on the basis of the findings and results of the EA, including implementation of any EMP;
- The status of mitigation measures;
- The findings of monitoring programs; and
- Measures set out in the legal agreements, any EMP, and other project documents.

There are significant gaps in the monitoring activity between WB policies and those of Brazil. This is mainly due to the fact that no stipulation of monitoring, either by the project proponent or the regulatory agencies, exists in Brazil.

8.1.5 Implementation of Information Disclosure during Project Formulation, Project Screening and Project Implementation

(1) Gap Analysis Between the Existing Domestic Regulations and the World Bank Information Disclosure Policy

As discussed in Chapter 5, the information disclosure system including the public participation process is required within the current EIA/RIMA regulation in Brazil. However, most of them are conducted at the later planning stage. So, when some possibilities of new alternative development plan is raised from communities and/or other stakeholder groups, it is difficult to feedback those comments and/or suggestions into the planning process and/or design framework since most of design works are at almost final stage.

(2) Outline of WB Information Disclosure System

The WB's Safeguard Policies state that, for meaningful consultations between the borrower, project-affected groups and local NGOs in all Category A and B projects, the borrower should provide relevant material in a timely manner prior to consultation and in a form and language understandable and accessible to the groups being consulted.

For a Category A Project, the borrower provides a summary of the proposed project's objectives, description, and potential impacts for the initial consultation. In addition, for a Category A project, the borrower makes the draft EA report available at a public place accessible to project-affected groups and local NGOs. Any separate Category B report for a project proposed for IDA financing is made available to project-affected groups and local NGOs.

8.2 Inter-American Development Bank (IDB)

8.2.1 Environmental Assessment

Environmental safeguard of IDB is almost same to that of WB, so similar gap regarding the environmental assessment process exists. Similar to WB, IDB continue to make a stimulate on the further capacity development of environmental administration, in particular, the environmental clearance process (e.g., abiding the schedule, quality control of the environmental license and others).

For all applicable Bank operations, the project team will complete, when necessary in collaboration with an environmental and/or social specialist, the Safeguard Screening Form in order to identify potential environmental and environmentally related socio-cultural impacts and risks of the operation. The Safeguard Screening Form (SSF) includes a checklist of

environmental and social issues to assist the project team in classifying the operation. Based on the SSF, the project team will propose, as early as possible in the project cycle, an environmental impact following Category "A," "B" or "C" for the operation [IDB, Implementation Guideline for the Environment and Safeguard Compliance Policy, 2007].

- Category A: An operation will be classified as Category "A" when it is likely to cause significant negative environmental and associated social and cultural impacts whether direct, indirect, regional or cumulative. This concept applies also to the operation's associated facility. Negative impacts are considered significant when: (i) they extend over a large geographic area; (ii) they are permanent or occur for an extended period of time; and (iii) they are of high intensity and/or high magnitude. An absolute definition of significant impact is not possible, as the significance of an activity may vary with the setting. The determination of whether a project may have a significant impact on the environment requires professional knowledge and judgment. This should be based, to the extent feasible, on scientific data and local information. Generally, an environmental/social professional with training and/or experience in environmental assessment should make this determination;
- Category B: Operations that are likely to cause mostly local and short-term negative environmental and associated social and cultural impacts and for which effective mitigation measures are readily available will be classified as "B." The magnitude/intensity of Category B projects are moderate in terms of direct, indirect, regional and cumulative impacts and standard procedures, know-how, and skills for the design of the mitigation measures are readily available and implementable.
- Category C: Operations that are likely to cause minimal or no negative environmental and associated social and cultural impacts will be classified as Category C. For the most part, these are operations that do not involve works or result in physical modification of the environment. Operations that are clearly designed to produce positive environmental outcomes, unless they include physical works, are considered to be Category C operations.

Environmental Impact Assessments (EIAs) are prepared by the borrower for projects with potentially substantial environmental impacts. EIAs are made available to affected populations and local nongovernmental organizations by the borrower before the Bank proceeds to the formal analysis of a project. Due to their length, EIAs are normally made available to the broader public for consultation only, in hard copies, through the Public Information Center. Table 8.2.1 summarizes recent approved EIAs for IADB-funded projects in Brazil.

Table 8.2.1 Recent Approved EIAs

Table	c 0.2.1 Recen	t Approved EIAs
Project Name (ID)	Date of	Description
(EIA Report ID) Road Program for Logistic and Integration - Ceara IV (BR-L1326) (EIA: 2964/OC-BR) http://www.iadb.org/en/projects/project-description-title,1303.html?id=BR-L1326	Approval 24 July 2013	Category B The Ceara IV is a multiple works program and will finance: (i) the rehabilitation of 1,375 km and the paving of 648 km roads, (ii) the implementation of a pilot on result-driven maintenance/rehabilitation process in the EC-060, a major route connecting the two largest cities, Fortaleza (north) and Crato (southern), and (iii) institutional strengthening of the DER / CE, including developing a State Plan of Logistics and Transport (PELT) and the implementation of actions identified in the Transport Master Plan and Environmental Management Plan, both funded by the Program Ceará III. It will also finance the development of technical, economic, social and environmental studies, engineering design, and management of activities and audits, all related to the implementation of the program.
		Environmental Remarks Since the program was classified as category "B," the following activities were conducted during program preparation: (i) an evaluation of works executed under the Ceará III program in terms of environmental issues (see optional electronic link 3); (ii) a field visit to all of the road segments targeted by the Ceará IV program; (iii) an environmental analysis of the entire representative sample of the Ceará IV program, including consultation and participation meetings in the main communities served by the road segments in question; and (iv) the program's EIA, which is a requirement for obtaining the preliminary permit.
Acre Sustainable Development Program II (BR-L1289) (EIA: 2928/OC-BR) http://www.iadb.org/en/projects/project-description-title,1303.html?id=BR-L1289	10 April 2013	Category B In spite of the success of the early investments done in the program BR-0313, deforestation continues albeit within small areas owned by poor small landholders and the stock of degraded lands is still growing in lands that are not suitable for cattle ranching. Consequently, development is still slowly taking pace. In this context, the GoAc has requested support from the Bank to finance to implement the second phase of the Programa de Desenvolvimento Sustentável do Acre, now numbered BR-L1289¿. The program BR-L1289 builds upon the legacy of the previous program BR-0313 and it is aimed at developing a novel policy package to further reduce deforestation and forest degradation through large-scale implementation of the system of forest concessions and increase the recovery of degraded land with the establishment of economically and environmentally viable forest plantations. Environmental Remarks Since the program ws classified as category "B",
		strategic environmental and social assessment was conducted in order to identify the most relevant environmental and social characteristics of the area of influence of the program, the principal risks and impacts of the program.
Pro-Energy RS Generation and Transmission Program (BR-L1303) (EIA: 2813/OC-BR) http://www.iadb.org/en/projects/project-description-title,1303.html?id=BR-L1303	01 November 2012	Category B The Companhia Estadual de Geração e Transmissão de Energia Eletrica (CEEE-GT) is seeking financing to fund part of its investment program 2010-2013 in the generation and transmission area for \$142 million. Environmental Remarks
Source: Inter-American Development I		No appropriate information and/or document regarding environmental and social consideration are obtained within this study.

Source: Inter-American Development Bank, http://www.iadb.org/en/about-us/approved-projects-eias,6589.html

8.2.2 Current Condition and Problems Related to Implementation of Land Acquisition

Similar to the environmental safeguard, IDB's safeguard policy regarding the involuntary resettlement is almost same to that of WB, so similar gap regarding the involuntary resettlement exists.

OP-710 summarizes the IDB's policy for the involuntary resettlement, caused by IDB's funded projects. This policy applies to all IDB-funded operations, in the public or private sector, whether IDB financing is directly channeled (as in investment loans) or administered by intermediaries (as in multiple works, time-slice or multi-sector credit programs). It excludes colonization schemes, as well as the settlement of refugees or victims of natural disasters.

The objective of this policy is to minimize the disruption of the livelihood of people living in the project's area of influence, by avoiding or minimizing the need for physical displacement, ensuring that when people must be displaced they are treated equitably and, where feasible, can share in the benefits of the project that requires their resettlement.

In order to achieve the overall objectives of this policy, operations which may require resettlement will be evaluated and prepared according to following two fundamental principles,

- Every effort will be made to avoid or minimize the need for involuntary resettlement. A thorough analysis of project alternatives must be carried out in order to identify solutions that are economically and technically feasible while eliminating or minimizing the need for involuntary resettlement. In examining the trade-offs between alternatives, it is important to have a reasonable estimate of the numbers of people likely to be affected, and an estimate of the costs of resettlement. Particular attention must be given to socio-cultural considerations, such as the cultural or religious significance of the land, the vulnerability of the affected population, or the availability of in-kind replacement for assets, especially when they have important intangible implications. When a large number of people or a significant portion of the affected community would be subject to relocation and/or impacts affect assets and values that are difficult to quantify and to compensate, after all other options have been explored the alternative of not going ahead with the project should be given serious consideration.
- When displacement is unavoidable, a resettlement plan must be prepared to ensure that the affected people receive fair and adequate compensation and rehabilitation. Compensation and rehabilitation are deemed fair and adequate when they can ensure that, within the shortest possible period of time, the resettled and host populations will: (i) achieve a minimum standard of living and access to land, natural resources, and services (such as potable water, sanitation, community infrastructure, land titling) at least equivalent to pre-resettlement levels; (ii) recover all losses caused by transitional hardships; (iii) experience

as little disruption as possible to their social networks, opportunities for employment or production, and access to natural resources and public facilities; and (iv) have access to opportunities for social and economic development.

Table 8.2.2 summarizes recent IDB-funded projects with resettlement events in Brazil. It is noted that no appropriate information and/or document regarding relevant ESIA studies of each project are obtained within this study.

Table 8.2.2 IDB Projects with Resettlement Plan in Brazil

Project Name (ID)	Date of Approval	Descriptions
Sao Bernardo do Campo Urban Transportation Program II (BR-L1315) http://www.iadb.org/en/projects/proje ct-description-title,1303.html?id=BR- L1315	December 12, 2012	Category B The urban transportation improvement measures financed through this Program can be divided in three groups, interventions on highway infrastructure, taking advantage of these interventions to improve public transit operations, and improvement of the urban transportation system management. The specific Program components are: i) engineering and management; ii) completion of the municipal beltway; iii) upgrading the traffic signal system; (iv) operative improvement of the public transit system; (v) improvement of highway safety at critical spots; vi) traffic management and institutional strengthening: traffic system management, technical updating training, environmental liabilities recovery plan, dangerous cargo master plan, environmental sector at PMSBC; and vii) RoW expropriation, environmental compensation and human resettlement.
Improve Road Access to Small Municipalities in Minas Gerais-Phase II (BR-L1231) http://www.iadb.org/en/projects/project-description-title,1303.html?id=BR-L1231	December 15, 2009	Category B The State of Minas Gerais is implementing a road program to improve the accessibility for small municipalities, called PROACESSO. This program benefits 224 municipalities located in the poorest and less developed areas of Minas Gerais, mainly in the northeast region of the state. The Bank's participation has been done through a CCLIP divided in two phases. The first one was approved in 2005 and is currently in execution. The conditions to start the preparation of phase 2 have been accomplished. As in it's first phase, the Programa will focus on the improvement of dirt roads that provide access to municipalities with low Human Development Index (IDH) values. The specific components of the Program are: i) engineering and administration; ii); interventions to improve local roads; iii) institutional and road management strengthening; and iv) expropriations, resettlements and social and environmental compensations. In order to differentiate between the Bank's program and the global state program, the Bank's Program was called PROACESSO-BIDH, due to its focus on accessibility to municipalities with low HDI. The Bank's Program Phase II is expected to implement improvements in close to all of PROACESSO roads that still need to be paved. JBIC and WB are also financing part of the global PROACESSO roads through parallel loans.
Estrada Nova Watershed Sanitation Program – PROMABEN (BR-L1065) http://www.iadb.org/en/projects/proje ct-description-title,1303.html?id=BR- L1065	July 09, 2008	Category A The program will finance works for the urban and environmental restoration of the Estrada Nova watershed in Belem, Brazil. It will be financed drainage, water supply, sewerage and thoroughfares. There will also be investments in the remediation of the existing landfill and the studies for a new landfill. The works will need the resettlement of some 1,100 families.

Source: Inter-American Development Bank, http://www.iadb.org/en/projects

8.2.3 Current Condition and Problems Related to Considerations for Indigenous Peoples

(1) Online

Similar to the environmental safeguard, IDB's safeguard policy regarding indigenous people is almost same to that of WB, so similar gap regarding the considerations for the indigenous people exists.

Based on OP 765, IDB seeks to support socio-cultural development processes that are appropriate to the economy and governance of indigenous peoples, giving priority to territorial and cultural integrity, to a harmonious relationship with the environment, and to security in the face of vulnerability, while respecting the rights of indigenous peoples and individuals. This policy and strategy seek to strengthen the IDB's role and renew its commitment to the development with identity of indigenous peoples. The objective of this policy is to enhance the IDB's contribution to the development of indigenous peoples by supporting the region's national governments and indigenous peoples in achieving the following objectives [IDB, Operating Guidelines: Indigenous Peoples Policy (IPP), 2006]:

- Support the development with identity of indigenous peoples, including strengthening their capacities for governance.
- Safeguard indigenous peoples and their rights against adverse impacts and exclusion in Bank-funded development projects.

The policy contains two sets of directives. The first requires IDB to use its best efforts to promote the development with identity of indigenous peoples. The second creates safeguards designed to prevent or minimize exclusion and adverse impact that IDB operations might generate with respect to indigenous peoples and their rights.

(2) Promoting Development with Identity

IDB will use its best efforts to support the region's national governments and indigenous peoples, as well as relevant private sector and civil society actors, in mainstreaming indigenous issues in local and national development agendas and in IDB's project pipeline. It will pursue this through specific initiatives and, where technically feasible and appropriate, the integration of complementary activities, operations, and general initiatives.

Mainstreaming specifically Indigenous Issues in Development Agendas through
 <u>Independent Operations</u>. IDB will seek to support the initiatives of governments and
 indigenous peoples designed to promote indigenous social, economic, political, and
 organizational development through socio-culturally appropriate activities and operations

and innovative mechanisms. IDB will conduct participatory diagnostic studies and promote the inclusion of the corresponding conclusions and recommendations into the design of projects, programs, and technical cooperation operations. To be considered by IDB, these operations specifically targeting indigenous beneficiaries must have the respective country's support or non-objection and be based on socio-culturally appropriate processes of consultation with the indigenous peoples concerned. The consultations will be carried out in a manner appropriate to the circumstances, with a view to reaching agreement or obtaining consent.

Mainstreaming Indigenous specificity in Projects with a General Approach. For activities and operations not specifically targeting indigenous peoples but of potential benefit to them, IDB will promote and support the implementation, by borrowing member countries or project proponents,10 of the appropriate adjustments to address the needs and development opportunities of indigenous peoples. This includes technically feasible complementary measures to: (i) identify and target indigenous peoples that could potentially benefit; (ii) implement socio-culturally appropriate and effective consultation processes with these peoples; (iii) respect the traditional knowledge, cultural heritage, natural assets, social capital, and the systems specific to indigenous peoples with respect to social, economic, linguistic, spiritual and legal11 systems; (iv) adapt services and other activities to facilitate access to them by indigenous beneficiaries, including equitable treatment and, whenever feasible, adequate procedures and criteria, and programs for capacity building and compensation of exclusion factors; and (v) design complementary measures and activities through a process of good faith negotiation with affected indigenous communities.

(3) Safeguards in IDB Operations

In order to be eligible for IDB financing, operations need to comply with applicable legal norms, satisfy the safeguards established in the present policy and set forth in paragraphs below, and be consistent with other IDB's policies [IDB, Operating Guidelines: Indigenous Peoples Policy (IPP), 2006].

- a) Adverse impacts.
- b) Territories, land, and natural resources.
- c) Indigenous rights.
- d) Prevention of ethnically based discrimination.
- e) Indigenous culture, identity, language, and traditional knowledge.
- f) Trans-border indigenous peoples.
- g) Not-contacted indigenous peoples

Table 8.2.3 summarizes the list of recent IDB-funded projects interacting with indigenous

communities in Brazil.

Table 8.2.3 Recent IDB Projects with Indigenous Communities in Brazil

Project Title (ID#)	Date of	Descriptions	
	Approval		
Program for accelerating progress of Education in Amazonas (BR-L1328) http://www.iadb.org/en/projects/project-description-title,1303.html?id=BR-L1328	September 24, 2013	Unknown (no document available) Consists of following 4 components, i.e., (1) Expanding the coverage of basic education and the Youth and Adult, (2) Improved progression, completion and quality of basic education, (3) Management and monitoring and evaluating the school network, and (4) Program Administration.	
Development of the Cerrado Native Fruit Chain ¿ Maranhão (BR-M1097) http://www.iadb.org/en/projects/project-description-title,1303.html?id=BR-M1097	14 July 2010	Category C This project seeks to harness the current trend of looking for food with special values and of easy consumption, "superfruits" and derivates, trought the support of the production and processing of native fruits in the region of Cerrado as a strategy for the Cerrado biome preservation and income generation for small local producers, mainly of indigenous origin. The general objective of the Project is to improve the earning capacity of small producers of native fruit of the Cerrado region. The specific objective is to improve the participation of small producers of native fruit of the Cerrado region in the value chain and implement innovative pilot projects within the chain.	
To Support the Qualification in Agroecological Production of Young Kayapós India (BR-M1094) http://www.iadb.org/en/projects/project-description-title,1303.html?id=BR-M1094	16 July 2009	Unknown (no document available) The general goal of the Program is to contribute for the institutional strengthening of the Raoni Institute and to promote the consolidation of a model of local sustainable development in the Indian Reserve Kapoto Jarina. More specifically, the program has as goal, to promote the technical qualification of young indians in agro-ecological production and provide technical assistance for the development of productive activities through sustainable handling and exploitation of local typical products.	

Source: Inter-American Development Bank,

http://www.iadb.org/en/projects/advanced-project-search,1301.html?query=indigenous brazil

8.2.4 Confirmation System for Monitoring

Similar to the environmental safeguard, IDB's policy regarding monitoring activities is almost same to that of WB, so similar gap regarding the considerations for the monitoring exists.

Policy directive regarding the supervision and compliance of the environmental safeguards is defined in Policy Directive B.7 of IDB's "Implementation Guidelines for the Environment and Safeguards Compliance Policy (2007)". IDB monitor the executing agency/borrower's compliance with all safeguard requirements stipulated in the loan agreement and project operating or credit regulations. Safeguard requirements, such as those in an Environmental and Social Management Plan (ESMP) must be incorporated into the project contract documents, its operating or credit regulations, or the project bidding documents, as appropriate, setting out as necessary milestones, timeframes and corresponding budgetary allocations to implement and monitor the plan during the course of the project. Safeguard indicators, as appropriate, should be clearly defined in the logical/results framework, followed up in project monitoring reports and reviewed in mid-term reviews and project completion reports. Compliance with safeguard

commitments and identification of unexpected safeguard issues will be analyzed, reviewed and reported as part of IDB's administration and portfolio review missions. Category "A" projects will be reviewed at least annually to assess safeguard compliance. Whenever ex-post evaluations are conducted, these will evaluate the sustainability outcomes of an operation.

8.2.5 Implementation of Information Disclosure during Project Formulation, Project Screening and Project Implementation

Similar to the environmental safeguard, IDB's safeguard policy regarding indigenous people is almost same to that of WB, so similar gap regarding the information disclosure process exists.

Access to information policy is described within IDB's "Disclosure of Information policy (OP-102). This policy is based on the following principles:

- ✓ Principle 1: Maximize access to information. IDB reaffirms its commitment to transparency in all of its activities and therefore seeks to maximize access to any documents and information that it produces and to information in its possession that is not on the list of exceptions. Further, so long as IDB is not legally obligated to non-disclosure, and has not received information with the understanding that it will not be disclosed, information on the list of exceptions will be disclosed in accordance with timelines and procedures specified for that purpose.
- ✓ Principle 2: Narrow and clear exceptions. Any exceptions to disclosure will be predicated upon the possibility, narrowly and clearly defined, that the potential harm to interests, entities or parties arising from disclosure of information would outweigh the benefits, that IDB is legally obligated to non-disclosure, or has received information with the understanding that it will not be disclosed. IDB may, in exceptional circumstances, decide not to disclose information that would be normally accessible if it determines that the harm that might occur by doing so will outweigh the benefits of access. IDB may also, in exceptional circumstances, make available to the public information ordinarily excluded from disclosure when it determines that the benefit would outweigh the potential harm.
- ✓ **Principle 3**: Simple and broad access to information. IDB will employ all practical means to facilitate access to information. Guidelines for maximizing access to information will include clear and cost-effective procedures and timelines for processing requests and will be based on use of a system for classifying information according to its accessibility over time.
- ✓ **Principle 4**: Explanations of decisions and right to review. When denying access to information IDB will provide an explanation for its decision. Requesters who believe they

have been denied access to information in violation of the policy will have the right of review of such decisions by an interdepartmental Access to Information Committee chaired by the Office of the Presidency. In the event that the requesters are denied access to information by the Committee, they may have further redress through review by an external panel established by the Bank for that exclusive purpose.

The Environment and Safeguards Compliance Policy (GN-2208-20, paragraph 4.20) provides that "as part of the environmental assessment process...appropriate information will be provided in location(s), format(s) and languages(s) to allow for affected parties to be meaningfully consulted." Management's annual reports to the Board on implementation of the Access to Information policy (see paragraph 11.1) will review the practices of borrowers with respect to the disclosure of environmental and social assessments related to IDB-financed projects

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Appendix

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Appendix 1 List of International Agreements

Table A1List of International Agreement

International Agreement	Conclusion date	entry into
The West-in-when Convention of 1040		
The Washington Convention of 1940 Vienna Convention for the Protection of the Ozone Layer	22/03/1985	22/09/1988
Stockholm Convention on Persistent Organic Pollutants	22/05/2001	17/05/2004
International Maritime Organization Ballast Water Convention	22/03/2001	17/03/2004
International Convention on C ivil Liability for 0 il Pollution Damage	<u> </u>	
Protocol on Environmental Protection to the Antartic Treaty	<u> </u>	
Antartic Treaty	<u> </u>	
Convention on B io logical D iversity	05/06/1992	29/12/1993
United Nations Framework Convention on Climate Change	09/05/1992	21/03/1994
Kvoto Protocol to the United Nations Framework Convention on Climate	03/03/1392	21/00/1994
Change	11/12/1997	16/02/2005
United Nations Convention to Combat Desertification in Those Countries	11/12/1997	10/02/2003
	14/10/1994	26/12/1996
Experiencing Serious Dirought and/or Desertification, Particularly in A frica Convention on the International Frade in Endangered Species of Wild Fibra	14/ 10/ 1334	20/12/1330
and Fauna (CITES)		04/11/1975
Convention on the Prohibition of Military or Any Other Hostile Use of		
	10/12/1976	05/10/1978
Environmenta I Modification Techniques Base I Convention on the Control of Transboundary Movements of Hazardous	10/ 12/ 10/0	00/10/10/0
Wastes and Theirs Disposal	22/03/1989	05/05/1992
United Nations Convention on the Law of the Sea (UNCLOS)	10/12/1982	16/11/1994
United Nations Convention on the Law of the Sea (UNCLOS) Convention on the Prevention of Marine Dumping Polition by Dumping	,	, ,
Wastes and Other Matter (London Convention)		
Montreal Protocol on Substances that Deplete the Ozone Layer	16/09/1987	01/01/1989
Protocol of 1978 related to the International Convention for the Prevention of	,,	
Pollution from Ships. 1973 MARPOL)		
International Tropical Timber Agreement, 1994	26/01/1994	01/01/1997
International Tropical Timber Agreement, 2006 Convention on Wetlands of International Importance Especially as Waterfow I	27/01/2006	07/12/2011
Convention on Wetlands of International Importance Especially as Waterfowl		
Habitat (Ram sar)		
International Convention for the Regulation of Whaling Treaty Banning Nuclear Weapons Tests in the Atmosphere, in Outer Space,		
and Under Water	24/9/1996	
Convention on M igratory Species of Wild Animals		
Source: International Opportunities Organization/latin law yer.com/UN 2013		

A-2

Appendix 2 List of IUCN Red List of Animals and Plants

Table A-2.IUCN Red List of Animals and Plants (1/9)

		Common Name	Status
		ACTINOPTERYGII	
Anisotremus	moricandi	Brownstriped Grunt	EN
Anthias	salm opunctatus		۷U
Astyanax	trierythropterus		۷U
A ustro leb las	affin is	K illifish	۷U
	ve tu la	0 bl W ife, 0 lw ife, Q ueen Triggerfish, Triggerfish, Turbot	VU
	orthotaen ia		VU
Campelblebias	bruce i	Santa Catarina Sabrefin	٧U
Cyno leb ias	bo itone i	Brasilia Lyrefn	٧U
Cyno leb ias	constanciae	Annual Tropical Killifish, Pear Ifish	۷U
Epinephe lus	ita jara	A tantic Goliath Grouper, Jew fish, Goliath Grouper	CR
Epinephe lus	m arginatus	Dusky Grouper	EN
Hyporthodus	flavo lim batus	Poey's Grouper, White Grouper, Yelbwedge Grouper, Yelbwfinned Grouper, Grouper	VU
Hyporthodus	n igritus	Warsaw Grouper, Black Grouper, Black Jewfish	CR
Hyporthodus	n iveatus	Spotted Grouper, Seabass, Snowy Grouper	٧U
Kajkia	abida	W hite Marlin, Marlin, Skilligabe	٧U
Lachno a in us	maxinus	Hogfish	٧U
Lepthopbsternum	tordiho		EN
Lepto leb las	m arm oratus	Annual Tropical Killifish, Ginger Pearlfish	٧U
Lepto leb las	minimus	Annual Tropiac I Killifish, Minute Pearlfish	٧U
Lepto lebias	opalescens	Annual Tropical Killifish, Opalescent Pearlfish	٧U
Lepto lebias	splendens		٧U
L istrura	camposi		٧U
		Mutton Snapper	VU
			٧U
•			VU
			VU
M ycteroperca	in terstitia lis	Crossband Rockfish, Grey Mannock, Ham bt, Harbquin Rockfish, Princess Rockfish, Rockfish, Salmon Grouper, Salmon Rock Fish, Scamp, Yelbwmouth Grouper	VU
Dagnie	pagnic	Common Seabream, Couch's Sea-bream, Couch's Sea Bream, Porgy, Red Porgy,	EN
		COIII III OII Sea Diealii	VU
		Croanback Dawertinh	EN
		UTECHDAGN FATTULISH	VU
	i e	Saint Dayla Gragany	VU
			CR
			VU
ITIUTINUS	utynnus		EN
A da babar	haturitar - :-	AMPHIRIA	Ivu
			VU
	<u> </u>		EN
			VU
			VU
			VU
			CR
			VU
			EN
			VU
Cycbramphus	fausto i		CR
D asypops	sch irch i		٧U
	A styanax A ustro bb as B a listes B rycon C am pe lb bb as C yno bb as Epinephe lus Epinephe lus Hyporthodus Hyporthodus Hyporthodus Lachno bim us Lepto bb as Loutianus M akaira M egabps M ycteroperca P agrus P seudotoc inc lus S carus S impson ichthys S tegastes Thunnus Thunnus Thunnus Thunnus A de bphryne A lbbates A lb bates A lb bates B okerm annohy b B okerm annohy b B okerm annohy b B okerm annohy b C h ism oc b is C yc b ram phus	Astyanax trerythropterus Austro eb as affin is B a listes vetu la B rycon orthotaen is C am pe lo eb bas bruce i C yno eb as constanc ae Epinephe lus ita ara Epinephe lus marginatus Hyporthodus flavo lim batus Hyporthodus niveatus K a akia ab da Lachno la mus maxin us Lepthop baternum tordiho Lepto eb as marm oratus Lepto eb as min in us Lepto eb as spendens Listrura camposi Lutianus ana lis Lutianus ana lis Lutianus atlanticus M ycteroperca interstitalis P agrus pagrus P seudoto circ lus tietens is S carus trispinosus S impson chthys S tegastes sanctipau li Thunnus maccoyii Thunnus maccoyii Thunnus baturitens is A de bphryne baturitens is B okerm annohy la B okerm annohy la B okerm annohy la B okerm annohy la C yc bram phus acangatan	Austrot bibis affinis Killfish Salistes vetu is District Catarina Sabre fin Campe ib bibis Druce i Santa Catarina Sabre fin Cyno bibis Druce i Santa Catarina Sabre fin Cyno bibis Druce i Brasilia Lyre fin Cyno bibis constanciae Annual Tropical Killfish, Pearlish Cyno bibis constanciae Dusky Grouper, Jew fish, Go listh Grouper Genoper, Grouper Hyporthodus fixvo limbatus Poey's Grouper, White Grouper, Ye libwedge Grouper, Ye libw finned Grouper, Grouper Hyporthodus niveatus Spotted Grouper, Seabass, Snowy Grouper, Black Jew fish Whyporthodus niveatus Spotted Grouper, Seabass, Snowy Grouper Seabass, Snowy Grouper Genoper, Grouper Myporthodus niveatus Spotted Grouper, Seabass, Snowy Grouper Seabass, Snowy Grouper, Grouper Seabass, Snowy Grouper, Grouper Seabass, Snowy Grouper, Grouper Seabass, Snowy Grouper, Seabass, Snowy Grouper, Seabass, Snowy Grouper, Grouper Seabass, Snowy Grouper, Grouper, Grouper Seabass, Snowy Grouper, Groupe

Table A-2.IUCN Red List of Animals and Plants (continued, 2/9)

			Γ	I
	Euparke re la	robusta		VU
	Euparke re la	tridacty la		VU
	Hem phractus	johnson i		EN
	H o baden	brade i		CR
17	H yps boas	cym balum		CR
	M e lanophryn iscus		Red-belly toad	CR
	M e bnophryn iscus			VU
20	M e banophryn iscus	m acrogranu bsus		VU
21	M e banophryn iscus	m ontevidensis		VU
22	M e lanophryn iscus	peritus		CR
23	0 reophryne la	que bh ii		VU
24	Phrynom edusa	fin briata		EX
25	Phylbmedusa	ayeaye		CR
26	Physabemus	atlanticus		٧U
27	Physabemus	soaresi		EN
28	Proceratophrys	m oratoi	Botucatu Escuerzo	CR
29	Scinax	abatraz		CR
30	Schax	be lbn i		EN
31	Schax	faivovichi		CR
32	Schax	pe ixo to i		CR
33	Thoropa	lıtzi		EN
34	Thoropa	pe tropo litana		٧U
			AVES	
1	Acrobatomis	fonsecai	P ink- legged G rave te iro	VU
2	Agamia	agam i	Agam iHeron	VU
3	A ectrurus	risora	S trange-ta ibd Tyrant	VU
4	A ectrurus	trico br	Cock-tailed Tyrant	VU
5	Am azona	bras iliens is	Red-tailed Amazon, Red-tailed Parrot	٧U
6	Am azona	festiva	Festive Amazon, Festive Parrot	٧U
7	Am azona	pre tre i	Red-spectaced Amazon, Red-spectaced Parrot	٧U
8	Am azona	rhodocorytha	Red-browed Amazon, Red-topped Parrot, Red-topped Amazon, Red-browed Parrot	EN
			V inaceous-breasted Am azon, V inaceous-breasted Parrot, V inaceous Parrot,	
	Am azona	vinacea	V naceous Am azon	EN
		glaucus	G aucous M acaw	CR
	Anodorhynchus	hyac inth inus	Hyac inth M acaw	EN
	Anodorhynchus	eari	Lear's M acaw, Indigo M acaw	EN
	Anthus	nattereri	0 chre-breasted P pit	۷U
	Antibphia	bokerm ann i	A rar pe M anak n	CR
	Aratinga	so Istitia lis	Sun Parakeet	EN
	B iatas	n igropectus	W hite-bearded Antshrke	VU
	Calyptura	cristata	K ing bt Calyptura, K ing bt Cotinga	CR
	C ap ito	dayi	B lack-girdled B arbet	VU
19	Cardue lis	yarre Ilii	Yelbw-faced Siskin	VU
	Carporn is	m e bnocepha b	B lack-headed Berryeater	٧U
21	Celeus	obrien i	K aem pfer's W oodpecker, C aatinga W oodpecker, P iau i W oodpecker	EN
	Cercomacra	carbonaria	R b Branco Antbird	CR
23	Cercomacra	ferdinandi	Banana l Antbird	VU
			Purple-winged Ground-dove, Purple-winged Ground Dove, Purple-barred Ground-	
24	C aravis	geoffroyi	dove, Purple-winged Ground-Dove	CR
25	C lytoctantes	atrogu bris	Rondon a Bushbird, Rondon a Bushbird	٧U
26	Cnipodectes	superrufus	Rufous Twistwing	٧U
27	Colmbha	cyanopis	B Lie-eyed Ground-dove, B Lie-eyed Ground Dove, B Lie-eyed Ground-Dove	CR

Table A-2.IUCN Red List of Animals and Plants (continued, 3/9)

28	Conirostrum	m argaritae	Pearly-breasted Conebill	VU
	Conothraupis	m eso euca	Cone-billed Tanager	CR
	Coryphaspiza	m e bnotis	B ack-m asked F nch	VU
	Cotinga	m acu ata	Banded Cotinga, Spotted Cotinga	EN
	C ran io leuca	m ue leri	Scaled Spinetail	EN
	Crax	alector	B lack Curassow	VU
	Crax	b lum enbach ii	Red-billed Curassow, Red-knobbed Curassow, M utum	EN
35	Crax	g bbu b sa	W attled Curassow	EN
36	Culicivora	caudacuta	Sharp-tailed Tyrant, Sharp-tailed Grass-Tyrant, Sharp-tailed Grass Tyrant	٧U
37	Curaeus	forbesi	Forbes's B lackbird	EN
38	C yanops itta	spixii	Spix's Macaw, Little Blue Macaw	CR
	Dendroco aptes	hoffmannsi	Hoffmanns's Woodcreeper, Hoffman's Woodcreeper	VU
	D iom edea	dabbenena	Tristan A batross	CR
	D iom edea	epom ophora	Southern Royal A batross, Royal A batross	VU
	D iom edea	exu lans	W andering A batross	VU
	D iom edea	sanfordi	Northern Royal A batross	EN
	Dryocopus	galeatus	He m eted W oodpecker	VU
	Dysitham nus	plum beus	P Lum beous Antvireo, P Lum beous Antshrke	VU
	E ben ia	rid e yana	Noronha E ben'a	VU
	E boscyta bpus	psychopom pus	Bahia Tapacu b, Chestnut-sided Tapacu b	CR EN
	E eothreptus Form ic ivora	candicans erythronotos	W hite-winged Nightjar R kck-hooded Antwren	EN
	Formicivora Formicivora	erythronotos littoralis	B Back-hooded Antwren Restinga Antwren	EN
	Geositta	poec ibptera	Campo Miner	VU
	Geotrygon	saph ir na	Sapphire Quail-dove, Sapphire Quail-Dove	VU
	G buc dium	m ooreorum	Pernam buco Pygm v-ow l Pernam buco Pygm v 0 w l Pernam buco Pygm v-0 w l	CR
	G lauc is	dohrn ii	Hook-billed Herm it	EN
	Guaruba	guarouba	Go Ben Parakeet, Go Ben Conure	VU
	Gubernatrix	cristata	Yelbw Cardnal	EN
	Harpyhaliaetus	coronatus	Crowned Eagle, Crowned So litary Eagle	EN
	Hem itriccus	furcatus	Fork-tailed Pygm y-tyrant, Fork-tailed Pygm y-Tyrant, Fork-tailed Tody-Tyrant	٧U
59	Hem itriccus	kaem pferi	Kaem pfer's Tody-tyrant, Kaem pfer's Tody-Tyrant	EN
	Hemitriccus	m irandae	Buff-breasted Tody-tyrant, Buff-breasted Tody-Tyrant	VU
	Herpsibchmus	pec to ralis	Pectoral Antwren	VU
	Herpsibchmus	pileatus	Bahia Antwren, Pileated Antwren	V U
	Hyexetastes	brigidai 	M ato Grosso W oodcreeper	VU
	Hylexetastes	uniformis	Uniform Woodcreeper	VU
	Jacam ara byon	tridacty la	Three-toed Jacamar	VU
	Laterallus	xenopterus	Rufous-faced Crake	VU
	Lepidothrix Lepidothrix	ris vibeboosi	0 pa Hongarawand Mianakin	VU
	Lepidothrix Leptodon	vilasboasi forbesi	Go den-crowned M anak n W h ite-co lared K ite	V U C R
	Leptodon Leucopternis	acernu atus	win re-colared kire Winite-necked Hawk	VU
	Lophorn is	gou dii	n nie-necked nawk Dot-eared Coquette	VU
	M ergus		B raz ilian M erganser	CR
	M eru bx is	stresem ann i	S tresem ann's Briste front	CR
	M itu	m itu	A agoas Curassow	EW
	Mymneciza	ruficauda	S calbped Antbird	EN
	Myrm oborus	Ligubris	A sh-breasted Antbird	VU
	Mymnoborus	m e bnurus	B bck-tailed Antbird	VU
	Mymn otheru ba	flum inensis	R io de Janeiro Antwren	CR
	Mymn otheru la	m nor	S a lvador is Antwren	۷U
	Mymn otheru b	snowi	A bgoas Antwren	CR
	Mymn otheru ba	surinam ensis	Gu ianan Streaked Antwren, Gu ianan Streaked-Antwren	۷U
82	Mymn otheru b	urosticta	Band-tailed Antwren	VU

Table A-2.IUCN Red List of Animals and Plants(continued, 4/9)

83	Nemosia	roure i	Cherry-throated Tanager	CR
	Neomorphus	squam iger	Scaled Ground-cuckoo, Scaled Ground-Cuckoo	VU
	Neope in a	aurifrons	Wied's Tyrant-manakin. Wied's Neopelma. Wied's Tyrant-Manakin	VU
	Nothura	m nor	Lesser Nothura	VU
	Numenius	borealis	Eskim o Curlew	CR
	0 nychorhynchus		A tantic Roya IF lycatcher, Swainson's Roya ⊢F lycatcher	VU
	0 ryzoborus	maxim ilian i	Great-billed Seed-fnch, Great-billed Seed Fnch, Great-billed Seed-Fnch	VU
	Patagioenas	subvinacea	Ruddy P igeon	VU
	Pene bpe	acucaca	W h ite-browed Guan	VU
92	Pene bpe	ochrogaster	Chestnut-be lled Guan	VU
	Pene bpe	pileata	W hite-crested Guan	VU
94	Philydor	novaesi	A lagoas Fo lage-g leaner	CR
95	Phoebetria	fusca	Sooty A batross, D ark-m antled Sooty A batross	EN
96	Phylbscartes	beckeri	Bahia Tyrannu et	EN
97	Phylbscartes	ceciliae	A lagoas Tyrannu let, Long-ta iled Tyrannu let	EN
98	Phylbscartes	krone i	Restinga Tyrannu bt	VU
99	Phylbscartes	roquette i	M inas Gerais Tyrannu let	EN
	Picum nus	spibgaster	W h ite-be llied P icu let	VU
	Picum nus	varzeae	Varzea P icu let	EN
102	Pionites	eucogaster	W h ite-be llied P arrot	٧U
103	P pile	cum anens is	B Lie-throated P ping-guan, B Lie-throated P ping-Guan	VU
			B bck-fronted P ping-guan, B bck-fronted P ping-Guan, B bck-fronted P ping Guan,	
104	Pipile	acutinga	B ack Fronted Curassow	EN
105	P iprites	pileata	B lack-capped P prites	٧U
106	P atyrinchus	eucoryphus	Russet-winged Spadebill	٧U
107	Poospiza	c nerea	C inereous W arbling-finch, C inereous W arbling F inch, C inereous W arbling-F inch	٧U
108	Porzana	spibpte ra	Dot-winged Crake	٧U
109	Primolius	cou bn i	B Lie-headed M acaw	٧U
110	Proce laria	aequ noctialis	W h ite-ch inned P e tre l	٧U
111	Procellaria	conspic illata	Spectac ed Petre I	٧U
112	Procnias	nudico llis	Bare-throated Be lbird	VU
113	Psophia	virdis	Dark-winged Trumpeter	EN
114	P te rodrom a	amn in jon iana	Trindade Petrel, Herald Petrel	VU
115	P te rodrom a	incerta	Atlantic Petrel	EN
116	Pyriglena	atra	Fringe-backed Fire-eye	EN
117	Pyrilia	vu Iturina	Vulturne Parrot	٧U
118	Pyrrhura	cruentata	O chre-marked Parakeet, Red-eared Conure, Blue-throated Parakeet	٧U
119	Pyrrhura	grise pectus	Grey-breasted Parakeet, Gray-breasted Parakeet	CR
120	Pyrrhura	lepida	Pearly Parakeet	٧U
121	Pyrrhura	perlata	Crin son-be llied Parakeet	٧U
122	Pyrrhura	pfrmeri	P frim er's P arakeet	EN
123	Rhegm atorh na	gymnops	Bare-eyed Antbird, Santarem Antbird	VU
124	Rhopomis	ardesiacus	S ender Antbird	EN
-	Scytabpus	iraiensis	Marsh Tapacub	EN
	Sporoph ila	cinnam om ea	Chestnut Seedeater	VU
	Sporoph ila	fa b irostris	Temm inck's Seedeater	VU
	S poroph ila	frontalis	Buffy-fronted Seedeater, Buffy-throated Seedeater	VU
	Sporoph ila	m e lanops	Hooded Seedeater	CR
	Sporoph ila	n igroru fa	B lack-and-tawny Seedeater	VU
	Sporoph ila	palıstris	Marsh Seedeater	EN
	S turne la	de filipp ii	Pam pas Meadow ark	۷U
	S tym pha b rn is	acutirostris	Parana Antwren, Marsh Antwren	EN
$\overline{}$	S yna llax is	infuscata	Pinto's Spinetail, Pernam buco Spinetail	EN
	S yna llax is	ko lari	Hoary-throated Spinetail	CR
	S yna llax is	whitneyi	Bah a Spineta il	VU
107	Tangara	fastuosa	Seven-co bured Tanager, Seven-co bred Tanager	VU

Table A-2.IUCN Red List of Animals and Plants (continued, 5/9)

	_		<u> </u>	I			
	Tangara	peruviana	B bck-backed Tanager, B bck-cheeked Tanager	VU			
	Taon iscus	nanus	DwarfT nam ou	VU			
	Terenura	sicki	O range-be llied Antwren, A lagoas Antwren	EN EN			
-	Thalassarche	ch brorhynchos					
	Thalassarche	chrysostom a	Grey-headed A batross, Grey-headed M o llym aw k, Gray-headed A batross	EN			
	Thripophaga	m acroura	S trated S o fitta il	۷U			
	T ijuca	condita	Grey-winged Cotinga, Gray-winged Cotinga	VU			
	Tnamus	tao	Grey Thamou, Gray Thamou	VU			
	Tou it	huetii	S car bt-shou blered P arrotbt	VU			
	Tou it	m e lanonotus	Brown-backed Parrotet, B ack-eared Parrotet	EN			
	Tou it	surdus	Go blen-tailed Parrotlet	۷U			
	Xanthopsar	favus	Saffron-cow ed B ackbird	۷U			
	X phocolaptes	falcirostris	M oustached W oodcreeper	VU			
	X pho ena	atropurpurea	W hite-winged Cotinga	EN			
152	Xomis	dom in canus	B lack-and-white M on jita	VU			
_	0 1 1		RTVAL VIA	lvu			
	Castalia	m artensi		VU			
	D p bdon	dunkerianus		EN			
	Dipbdon Dipbdon	expansus		V U EN			
	Dipbdon Dipbdon	fontaineanus		VU			
5	Dipbdon	pfeifferi		IVU			
1	A b in .		CHONDRICHTHYES	Ινυ			
	A bpias	superc ilipsus	B geye Thresher Shark, False Thresher	VU			
	A bp ias	vu þinus	Common Thresher Shark				
	Atlantoraja	caste hau i	S po tback S kate	EN VU			
	Atlantoraja	cyc bphora	Eyespot Skate	VU			
	Atlantoraja	platana kreffti	La P ata Skate	VU			
	Benthobatis		Brazillan Blind Electric Ray O cean ic W hitetip Shark, W hitetip Shark, W hite-tipped Shark, W hitetip O cean ic Shark	VU			
	Carcharh nus Carcharh nus	bngmanus	Dusky Shark	VU			
	Carcharl hus	obscurus plum beus	S andbar S hark	VU			
	Carcharh hus	signatus	N ght Shark	VU			
10	Calcilaiiiilus	sgriams		V 0			
11	Carcharias	taurus	S and T ger, Spotted R agged-tooth Shark, G rey Nurse Shark, S and T ger Shark, G rey Nurse Shark, Spotted R aggedtooth Shark	l _{vu}			
	Carcharodon	carcharias	Great W hite Shark	VU			
	Centrophorus	granu bsus	Gu þer Shark	VU			
	Dasyatis	co arensis	Colares Stingray	VU			
	D ip bbatis	pictus	Variegated Electric Ray	VU			
	D pturus	m enn ii	South Brazilian Skate	VU			
	D ipturus	trachydermus	Roughskin Skate	VU			
17	D purus	u acriyue iii u s	in indication, o incitation, i compression, bos, in 6, come or or or ann, or appearance, compression, compres	V 0			
10	Galeorh hus	galeus	Southern Tope, Sweet William , T buron, Tope, Toper, Tope Shark, Vitam in Shark, Liver-oil Shark, Miller's Dog	l _{vu}			
	Galeus	m incarone i	Southern Saw tailCatshark	VU			
	Gurgesie la	dorsalifera	Onefin Skate	VU			
	G ym nura	a Itave la	o no m o na w	VU			
	Isogom phodon	oxyrhynchus	Daggernose Shark	CR			
	Isurus	oxyrinchus	Shortfn Mako	VU			
	Isurus	paucus	Longfin M ako	VU			
	Lamna	nasus	Porbeage	VU			
20	Lam na	114040		<u> </u>			
26	M anta	birostris	G iant M anta Ray, O cean ic M anta Ray, Pacific M anta Ray, Pe lagic M anta Ray, Chevron M anta Ray	VU			
	M obu la	rochebrunei	Lesser Guinean DevilRay	VU			
	M uste lis	fasc iatus	S triped Dogfish, S triped Smooth-hound	CR			
	M uste us M uste lis	schm itti	Surped Dogish, Surped Smooth-nound Narrownose Smoothhound	EN			
	N arc ne	bancroftii	Carbbean Electric Ray	CR			
30	n alt lit	Dallololell		υN			
21	O dontasa's	forov	Small-tooth Sand Tiger Shark, Herbst's Nurse Shark, Sand Shark, Ragged-tooth	VU			
	0 dontaspis	ferox	Shark, Smalltooth Sand Tiger Shark	CR			
	Pristis Rhinobatos	pristis horke lii	Large tooth Saw fish Brazilian Gu itarfish	CR			
აა	เกาเบบสเบร	I I O I KE III	DTAZ KAT UU LATION	Ιου			

Table A-2.IUCN Red List of Animals and Plants (continued, 6/9)

2.4	Rh noptera	bras iliens is	B raz ilian Cownose Ray	EN
	R braja	agass Z ii	R is Skate	VU
	Schroederichthys	_	L zard Catshark	VU
$\overline{}$	Sphyrna	ew ni	S calloped Hammerhead	EN
	Sphyrna Sphyrna	m okarran	S ca loped nam m ernead G reat Ham m erhead, Ham m erhead S hark, S quat-headed Ham m erhead S hark	EN
			Greathammernead, nammernead Snark, Squat-neaded nammernead Snark Curry Shark, Golden Hammerhead, Smalleye Hammerhead Shark	VU
	Sphyrna Squalus	tudes acanthias	P ked Dogfish, Spurdog, Cape Shark	VU
	•	argentina		EN
	Squatha Squatha	_	Argentine Angel Shark, Longfin Angel Shark	EN
	Squatna	guggenhe in punctata	H idden Ange shark, Spiny Ange IShark Angu ar Ange shark	EN
	Sym pterygia	acuta	B ignose Fanskate	VU
	Zapteryx	brevirostris		VU
40	Zapteryx	brevirosu s	Shortnose Gu itarfish	ĮVU
1	Conus	henckesi	GASTROPODA	VU
	D rym aeus			VU
	D rym aeus	acervatus		VU
	Gonyostom us	hense li		CR
$\overline{}$		gonyostom us		VU
	Gonyostomus Hirnaba	insularis		CR
-	н rnaba M ega bbu lim us	curytbana cardosoi		EX
	M egabbu liii us M egabbu lii us	fragilion		EN
	M egabbu lin us	grandis		CR
	M egabbu iii us M egabbu iii us			EN
	M egabbu iii us M egabbu iii us	bpesi		EN
		parafragilbr		CR
	M egabbulimus	proclivis		EN
	P tychodon	schuppi		
	Radioconus	goe di		CR EN
	Radioconus	rbchcoensis		EN
	Radiodiscus	am denus		VU
	Radiodiscus Tomigerus	compactus		EX
	Tom gerus	gbberulus		EX
	Z ichogyra	turbinatus paulistana		CR
20	Zibilogyra	pau is tai ia		UN
1	A conthogring	toyoonoo	INSECTA	CR
	A can thagr ion A raw acus	taxaense aethesa		EN
				VU
	A teuchus Canthon	squalidus		VU
	Canthon	corpulentus quadripunctatus		VU
	C yanophrys			VU
	D ichotom ius	bertha eucran io ides		EN
	D icho tom ius	sch ifferi		EN
	E ga	new tonsantos i		CR
	Erythrodiplax	acantha		CR
	Erythrodip ax	n ivea		CR
	Eurytides	iph itas	Ye Ibw K ite Swalbwtail	VU
	Heliconius	nattereri	Natterer's Longwing	CR
	Heteragrion	favovittatum	INGCOTO O CONSTINS	VU
	Jo iceya	praec arus		EN
	M acrodontia	cervicom is		VU
	M ec istogaster	asticta		VU
	M ec istogaster	pronoti	Atlantic Helicopter	CR
	M egadytes	ducalis	meaned no indepen	EX
	M icrathyria	divergens		VU
	M crathyria	k berekoperi		CR
	m biautyl ta	N DOTONOPETT		Įνī

Table A-2.IUCN Red List of Animals and Plants (continued, 7/9)

22	M icrathyria	pseudhypodidym a		۷U
23	M nagron	r be iro i		CR
24	N irodia	be þhegor		EN
25	Parides	ascan ius	F Lm inense Swalbwtail	۷U
26	Pedaridium	h irsu tum		٧U
27	Rhantus	orbignyi		EX
			MALACOSTRACA	
1	C ryph iops	bras iliens is		CR
2	Macrobrach ium	denticu latum		CR
3	Trichodactylus	crassus		EN
			ΜΑΜΜΑΙ ΤΑ	
1	A buatta	be kebu l	Red-handed How er Monkey, Red-handed How ling Monkey	۷U
2	A buatta	disco br	Spix's Red-handed How ler Monkey, Red-handed How ling Monkey	۷U
3	A buatta	u lı lata	M aranho R ed-handed How er M onkey, R ed-handed How ling M onkey	EN
4	A te les	be zebuth	Long-haired Spider Monkey, White-bellied Spider Monkey	EN
			Back-faced Back Spider Monkey, Chamek Spider Monkey, Peruvian Back Spider	
5	A te les	cham ek	Monkey	EN
	A te les	m arginatus	W hite-cheeked Spider Monkey, W hite-whiskered Spider Monkey	EN
	A te les	pan iscus	Gu iana Spider M onkey, R ed-faced B lack Spider M onkey, B lack Spider M onkey	VU
	Balaenoptera	borealis	SeiWhab, Rudoph is Rorqual Coalfish Whab, Pollack Whab	EN
	Babenoptera	m usculus	B Le W hab, S bbo d's Rorqual Su phur-bottom W hab, P ygm y B Le W hab	EN
9	раменориета	III uscu us		LIN
10	D - h +		Fin Whale, Fin-backed Whale, Finner, Common Rorqual, Herring Whale, Razorback,	L
	Bakenoptera	physalus	Finback	EN
	B lastocerus	dichotomus	Marsh Deer	۷U
	B rachyte les	arachno des	Muriqui, Southern Muriqui, Woolly Spider Monkey	EN
	B rachyte les	hypoxanthus	Northern Muriqui	CR
	B radypus	torquatus	M aned Three-toed S bth, M aned S bth	۷U
	Cacajao	ayresi	A yres B lack U akari	۷U
16	Cacajao	calvus	Babl—headed Uacari, Babl Uakari, Red—and—white Uacari, Red Uakari	۷U
17	Cacajao	hosomi	B ack-headed U acari, U akari	۷U
18	C a llbe la	hum ilis	B lack-crowned Dwarf M arm oset, Roosm a len's Dwarf M arm oset	۷U
			Bbnd TitiMonkey, Northern Bahian Bbnd TitiMonkey, Northern Bahian Bbnd Titi,	
19	Callicebus	barbarabrownae	Barbara Brown's Titi	CR
20	Callicebus	com brai	Com bra-fiho's TitiMonkey, Com bra Fiho's TitiMonkey, Com bra's Titi	EN
21	Callicebus	m e banoch ir	Coasta IB lack-handed Titi, Southern Bah lan Masked Titi	۷U
22	Callicebus	personatus	A tantic Titi, M asked Titi, Northern M asked Titi	٧U
23	Callim ico	goe dii	Goe blis Monkey, Goe blis Monkey, Callin bo, Goe blis Tamarn, Goe blis Marmoset	٧U
24	Callistom ys	pictus	Painted Tree-rat, Painted Tree Rat	EN
	Callithrix	aurita	Buffy-tufted-ear Marm oset, White-eared Marm oset	۷U
	Callithrix	faviceps	Buffy-headed Marm oset	EN
	Cavia	interm edia	·	CR
	Cebus	favius	B bnde Capuchin, Marcgrave's Capuchin Monkey	CR
	Cebus	kaapori	K a'apor C apuch in, K a'A por C apuch in	CR
	Cebus	robustus	Crested Capuchin, Robust Tufted Capuchin	EN
	Cebus	xanthosternos	Buff-headed Capuch in, Ye lbw-breasted Capuch in	CR
	Chaetom ys	subspinosus	Bristb-spined Rat, Thin-spined Porcupine	VU
υZ	o nao wiii yo	oupop Hoods	·	1,0
22	Chironotos	a h in source	Red-nosed Bearded Sak i, Red-nosed Sak i, W hite-nosed Bearded Sak i, W hite-nosed Sak i	EN
	Chiropotes	abnasus		_
	Chiropotes	satanas	Black Bearded Saki, Black Saki, Bearded Saki, Brown-bearded Saki	CR
	Chiropotes	utah ickae	U ta H ick's Bearded Saki U ta H ick's Bearded Saki	EN
	C tenom ys	flam ar ion i	Tuco-tuco O fThe Dunes	EN
	C tenom ys	lam i	5	VU
	Desmodus	dracu ae	G ant V am pire B at	EX
	D nom ys	bran ick ii	Pacarana	٧U
	Euryoryzom ys	lam ia	M onster R ice Rat	EN
41	Hybeamys	on iscus	Sowbug Rice Rat	٧U
42	Ju liom ys	rimofrons	C left-headed Ju liom ys	٧U
43	Jusce linom ys	candango	Candango Mouse	EX

Table A-2.IUCN Red List of Animals and Plants (continued, 8/9)

45	Lagothrix	cana	Geoffroy'S/peruvian W oo lly M onkey, Geoffroy's W oo lly M onkey				
46	Lagothrix	ago tricha 💮	Common Woolly Monkey, Humbobt's Woolly Monkey, Woolly Monkey	٧U			
47	Lagothrix	роеррідіі	Poeppig's Woolly Monkey, Red Woolly Monkey, Silvery Woolly Monkey	٧U			
48	Leontopithecus	caissara	B lack-faced L ion Tamarin	CR			
49	Leontopithecus	chrysom e las	Golden-headed Libn Tamarin	EN			
50	Leontopithecus	chrysopygus	B ack L bn Tam arn, Go den-rum ped L bn Tam arn	EN			
51	Leontopithecus	rosalia	Golden Libn Tamarin	EN			
52	Leopardus	tigrinus	0 nc illa, L ittle Spotted Cat, T iger Cat, L ittle T iger Cat	VU			
53	Mazama	bororo	SmallRedBrocket	VU			
54	M ico	euc ppe	Goblen-white Bare-ear Marmoset	VU			
55	M ico	rondon i	Rondon's Marmoset, Rondon a Marmoset	VU			
56	M icroakodontom y	transitorius	Trans it bna I Co liargo	EN			
57	M onode þh is	um bristriata	Faint-striped O possum, Red Three-striped O possum	VU			
58	M onode þh is	un istriata	Single-striped Opossum, One-striped Opossum, One-striped Short-tailed Opossum	CR			
59	Myrm ecophaga	tridacty la	G iant Anteater	٧U			
60	Neonycteris	pus illa	Least B ig-eared Bat	VU			
61	Noronhomys	vespuccii		EX			
62	Phaenomys	ferrugineus	R b De Janeiro ArborealRat	VU			
63	Phylbmys	bras iliens is	Red-nosed Tree Rat	EN			
64	Phylbmys	ևndi		EN			
65	Phylbmys	m antique irens is		CR			
66	Phylbmys	thomasi	G ant A tantic Tree Rat	EN			
67	Phylbmys	un ico br	Unico bred Tree Rat	CR			
68	Physeter	macrocephalis	Sperm Whale, Spermacet Whale, Cache bt, Pot Whale	VU			
69	Pithecia	abicans	White Saki, Buffy Saki, Buffy Saki, White Saki	VU			
70	Pontoporia	b ka in ville i	ranc iscana, La P lata R iver D o lph in				
71	Priodontes	maximus	ant Am adilb				
72	Pteronura	bras iliens is	G iant O tter, G iant B raz ilian O tter	EN			
			Brazilian Bare-faced Tamarin, Pied Bare-faced Tamarin, Pied Bare-face Tamarin, Pied				
73	Saguinus	bicobr	Tam arin	EN			
74	S agu inus	n iger	B ack-handed Tam arin	VU			
	Sam ri	vanzo lin ii	B lack-headed Squirre I M onkey, B lack Squirre I M onkey	VU			
	Tapirus	terrestris	Low land Tapir, South American Tapir, Brazilian Tapir	۷U			
	Tayassu	pecari	White-lipped Peccary	VU			
	Thylamys	karm ii	Karim is Fat-tailed Mouse Opossum	VU			
	To lypeutes	tricinctus	Brazilian Three-banded Arm ad ilb	VU			
	Trichechus	nungu is	Am azon an M anatee, South Am erban M anatee	VU			
	Trichechus	manatus	American M anatee, W est Indian M anatee	VU			
	Trinom ys	e liasi		EN			
	Trinom ys	moojeni		EN			
	Trinom ys	yonenagae		EN			
85	W ilfredom ys	oenax	Greater Wilfred's Mouse	EN			
	In a real	Livi	ΜΑΧΊΙ Ι ΟΡΟΠΑ	l			
	Notodiaptom us	dubius		VU			
	Notodiaptomus	m araca bensis		VU			
	Tropocyc bps	federensis		VU			
4	Tropocyc bps	nananae		VU			
	lu		MYXINI	lvu			
<u> </u>	M yx ne	so to i		VU			
<u> </u>	An inc hn :-	undu bar-	REPTILIA	lvu			
	An iso lep is	undu latus	Wiegmann's Tree Lizard	VU			
	Bachia	bress bau i	Bressau's Bachia	VU			
	Both ropoides	a batraz	A batrazes Lancehead	CR			
	Bothropodes	insu laris	Gotlen Lancehead, Que in ada Island Bothrops	CR			
	Dathuan-	n ivo in i					
	Bothrops Cabon odon toph is	pirajai	Piraja's Lancehead Tropica Forest Snake	VU VU			

Table A-2.IUCN Red List of Animals and Plants (continued, 9/9)

7	Calamodontophis	rona do i		EN
8	Calyptom m atus	confusion bus		EN
9	Caretta	caretta	Loggerhead	EN
10	Che bn ia	m ydas	Green Turte	EN
11	Che bno idis	denticu lata	Ye lbw – footed Tortoise, South American Tortoise, South American Ye lbw – footed Tortoise, Brazillan Giant Tortoise, Forest Tortoise	۷U
12	Corallus	cropan ii	Cropan's Boa	EN
13	Dermochelys	coriacea	Leatherback, Leatherback Sea Turte, Leathery Turte, Luth, Trunkback Turte, Trunk Turte, Coffin-back	۷U
14	Eretmochelys	im bricata	Hawksbill Turte	CR
15	Hydrom edusa	maximiliani	Brazilan Snake-necked Turte	۷U
16	Lepidoche lys	o livacea	O live R idley, P ac iffic R idley	۷U
17	Liblaemus	aram barensis		EN
18	Liblemus	lutzae		٧U
19	Liblemus	occ pitalis		۷U
20	Lioph is	atraventer		۷U
21	M esoc em m ys	hoge i	Hoge's S de-necked Turte, Hoge's S deneck Turte, Hoge's Toadhead Turte	EN
22	P e Ito cephalus	dumerilianus	B ig-headed Am azon R iver Turtle, B ig-headed S ideneck	۷U
23	Ph ibdryas	liv ida		٧U
24	Podocnem is	erythrocephala	Red-headed Amazon River Turtle, Red-headed Sideneck, Red-headed River Turtle	۷U
25	Podocnem is	sextubercu lata	S ix-tuberc ed Am azon R iver Turtle, S ix-tuberc ed R iver Turtle	۷U
26	Podocnem is	un ifilis	Ye lbw-spotted R wer Turtle, Ye lbw-spotted S deneck Turtle, Ye lbw-headed S deneck	۷U
27	Psibphthamus	paem nosus		۷U
28	Tantilla	bo ip iranga		۷U
29	Trachem ys	adiutrix	Carvaho's S lider, M aranho S lider	EN

Appendix 3 List of CITES registered animals in Brazil

Table A3 List of CITES registered animals in Brazil (1/20)

Kinadom	Class	Order	Family	Genus	Species	Scientific Name	Listina
nimalia	M am m a lia	Artiodactyla	Cervidae	B lastocerus	dichotomus	B lastocerus dichotom us	I
nimalia	M am m a lia	A rtiodacty la	Cervidae	0 zotoceros	bezoarticus	0 zotoceros bezoarticus	I
nimalia	M am m a lia	A rtiodacty la	Tayassu idae	Pecari	tajacu	Pecaritajacu	II
ninalia	M am m a lia	A rtiodacty la	Tayassu idae	Tayassu	pecari	Tayassu pecari	II
ninalia	M am m a lia	C arn ivo ra	C an idae	Cerdocyon	thous	Cerdocyon thous	II
ninalia	M am m a lia	C arn ivora	C an idae	Chrysocyon	brachyurus	Chrysocyon brachyurus	II
\n in alia	M am m a lia	C arn ivora	C an idae	Lycabpex	gymnocercus	Lycabpex gym nocercus	II
n in a lia	M am m a lia	Carn ivora	C an idae	Speothos	venaticus	Speothos venaticus	I
Animalia	M am m a lia	C arn ivora	Fe lidae	Leopardus	braccatus	Leopardus braccatus	II
n in a lia	M am m a lia	Carn ivora	Fe lidae	Leopardus	geoffroyi	Leopardus geoffroyi	I
ninalia	M am m a lia	Carn ivora	Fe lidae	Leopardus	parda lis	Leopardus pardalis	I
ninalia	M am m a lia	Carn ivora	Fe lidae	Leopardus	tigrinus	Leopardus tigrinus	l l
ninalia	M am m a lia	Carn ivora	Fe lidae	Leopardus	wiedii	Leopardus w ied ii	ļ
ninalia	M am m a lia	Carn ivo ra	Fe lidae	Panthera	onca	Panthera onca	1
nimalia	M am m a lia	Carnivora	Fe lidae	Puma	conco br	Pum a conco br	II
ninalia	M am m a lia	Carnivora	Fe lidae	Pum a	yagouaroundi	Pum a yagouaroundi	I/II
n in a lia	Mammalia	Carnivora	M uste lidae	Lontra	bngicaudis	Lontra bngicaudis	I
ninalia	Mammalia	Carnivora	M uste lidae	Pteronura	bras iliens is	P te ronu ra bras iliens is	111
nin alia nin alia	Mammalia	Carnivora	M uste lidae M uste lidae	Eira Galictis	barbara v ittata	E ira barbara	III
ninalia	M am m a lia M am m a lia	Carnivora	0 tariidae			Galictis vittata	II
n in a lia n in a lia	M am m a lia	C arn ivo ra	0 taridae 0 taridae	Arctocephalis Arctocephalis	australis gaze la	A rotocephalus australis A rotocephalus gaze la	II
ninalia	M am m a lia	Carnivora	0 taridae 0 taridae	Arctocephalis	tropicalis	Arctocephalus tropicalis	II
ninalia	M am m a lia	Camivora	Phoc idae	M irounga	bonina	M rounga bonna	II
ninalia	M am m a lia	Camivora	Procyon idae	Nasua	nasua	Nasua nasua so litaria	III
ninalia	M am m a lia	Carnivora	P rocyon idae	Potos	flavus	Potos flavus	III
ninalia	M am m a lia	Cetacea	Balaen idae	Eubalaena	australis	Euba bena austra lis	I
ninalia	M am m a lia	Cetacea	Balaenopteridae	Babenoptera	acutorostrata	Bakenoptera acutorostrata	I/ II
nimalia	M am m a lia	Cetacea	Balaenopteridae	Balaenoptera	bonaerensis	Balaenoptera bonaerensis	I I
ninalia	M am m a lia	Cetacea	Balaenopteridae	Babenoptera	borealis	Bakenoptera borealis	Ī
ninalia	M am m a lia	Cetacea	Balaenopteridae	Balaenoptera	edeni	Bakenoptera eden i	ī
ninalia	M am m a lia	Cetacea	Balaenopteridae	Bakenoptera	musculus	Bakenoptera musculus	i
ninalia	M am m a lia	Cetacea	Balaenopteridae	Balaenoptera	physalis	Bakenoptera physalis	İ
ninalia	M am m a lia	Cetacea	Balaenopteridae	M egaptera	novaeangliae	M egaptera novaeangliae	i
ninalia	M am m a lia	Cetacea	D e bh in idae	De bh nus	capensis	De bh nus capensis	II
n in a lia	M am m a lia	Cetacea	D e lph in idae	Feresa	attenuata	Feresa attenuata	II
\n in a lia	M am m a lia	Cetacea	D e lph in idae	G bb icephala	m acrorhynchus	G bbicephalam acrorhynchus	II
ninalia	M am m a lia	Cetacea	D e lph in idae	G bb icephala	m e las	G bb icepha la m e las	II
ninalia	M am m a lia	Cetacea	D e lph in idae	G ram pus	griseus	Gram pus griseus	II
ninalia	M am m a lia	Cetacea	D e bh in idae	Lagenode bh is	hose i	Lagenode bh is hose i	II
nimalia	M am m a lia	Cetacea	D e þh in idae	L isso de þh is	pe ron ii	L issode þh is pe ron ii	II
\n in a lia	M am m a lia	Cetacea	D e þh n dae	0 rc nus	orca	0 rc hus orca	II
nimalia	M am m a lia	Cetacea	D e þh in idae	Peponocephala	e lectra	Peponocephala e lectra	II
ninalia	M am m a lia	Cetacea	D e þh in idae	Pseudorca	crass idens	P seudorca crassidens	II
ninalia	M am m a lia	Cetacea	D e þh in idae	Sotalia	fluviatilis	Sotalia fluviatilis	I
\n in alia	M am m a lia	Cetacea	D e þh in idae	Sotalia	gu ianens is	S o ta lia gu ianens is	I
\n in a lia	M am m a lia	Cetacea	D e þh in idae	S tene la	attenuata	S tene la attenuata	II
n in a lia	M am m a lia	Cetacea	D e þh in idae	S tene la	c lym ene	S tene la c lym ene	II
ninalia	M am m a lia	Cetacea	D e þh in idae	S tene la	coeru boaba	S tene la coeru boaba	II
ninalia	M am m a lia	Cetacea	D e þh n idae	S tene la	frontalis	S tene la frontalis	II
nimalia	M am m a lia	Cetacea	D e þh n dae	S tene la	bngirostris	Stene la bngirostris	II
ninalia	M am m a lia	Cetacea	D e bh in idae	Steno	bredanensis	S teno bredanens is	II
ninalia	M am m a lia	Cetacea	D e þh in idae	Tursipps	truncatus	Tursipps truncatus	II
ninalia	M am m a lia	Cetacea	In iidae	In ia	geoffrensis	In ia geoffrens is	II
n in a lia	M am m a lia	Cetacea	In iidae	Pontoporia	b la inville i	Pontoporia blanville i	II
ninalia	M am m a lia	Cetacea	Phocoen idae	Phocoena	dipptrica	Phocoena dipptrica	II
ninalia	M am m a lia	Cetacea	Phocoen idae	Phocoena	spin ipinn is	Phocoena spin pinn is	II
n in a lia	M am m a lia	Cetacea	Physeteridae	Kogia	breviceps	Kogia breviceps	II
n in a lia	Mammalia	Cetacea	Physeteridae	Kogia	sin a	Kogia sima	II
n in a lia	Mammalia	Cetacea	Physe teridae	Physeter	m acrocephalus	Physeter macrocephalus	I
n in a lia	Mammalia	Cetacea	Z ph iidae	Berardus	amux ii	Berardus arnuxii	Ī
n in a lia	Mammalia	Cetacea	Z ph iidae	Hyperoodon	p lan ifrons	Hyperoodon plan ifrons	I
nin alia	Mammalia	Cetacea	Z ph iidae	M esopbdon	densirostris	M esopbdon densirostris	II
n in a lia	Mammalia	Cetacea	Z jph iidae	M esopbdon	grayi	M esop bdon grayi	II
nin alia	Mammalia	Cetacea	Z ph iidae	M esopbdon	hectori	M esop bdon hectori	II
n in a lia	Mammalia	Cetacea	Z iph iidae	Z ph ius P latvrrh inus	cavirostris	Z jph ius cav rostris	II
n in a lia	Mammalia	Chiroptera	Phylbstom idae		lineatus	P atyrrh nus lineatus	III
\n in a lia	M am m a lia	C ingu lata	D asypodidae D asypodidae	Cabassous Priodontes	tatouay m ax in us	Cabassous tatouay Priodontes maximus	III

Table A3 List of CITES registered animals in Brazil (continued, 2/20)

Animalia	M am m a lia	Daringadaatub	Tapiridae	Tonisuo	to was ot win	Tapirus terrestris	II
		Perissodacty la		Tapirus	terrestris		
Animalia Animalia	Mammalia Mammalia	P ibsa P ibsa	B radypodidae M ega bnychidae	Bradypus Cho bepus	variegatus hoffmanni	B radypus variegatus Cho bepus hoffin ann i	III
Aninalia	Mammalia	P ibsa	M ym ecophagidae	M ym ecophaga	tridactvla	M vm ecophaga tridactvla	II
Aninalia	Mammalia	Prim ates	Aotidae	Aotus	azarae	A o tu s azarae	II
Anmala	M am m a lia	Primates	Aotidae	Aotus	nancym aae	A o tus nancym aae	II
Anmala	M am m a lia	Primates	Aotidae	Aotus	n griceps	A o tus n igriceps	II
Anmala	M am m a lia	Primates	Aotidae	Aotus	trivirgatus	Aotus trivirgatus	II
Aninala	M am m a lia	Primates	Aotidae	Aotus	vociferans	A o tus voc ife rans	II
Anmala	M am m a lia	Primates	A te lidae	A buatta	be zebu l	A buatta be zebu l	II
Animalia	M am m a lia	Primates	A te lidae	A buatta	caraya	A buatta caraya	II
Animalia	M am m a lia	Primates	A te lidae	A buatta	guarba	A buatta guarba	II
Aninalia	M am m a lia	Primates	A te lidae	A buatta	m acconne lli	A buatta m acconne lli	II
Aninalia	M am m a lia	Primates	A te lidae	A buatta	n igerrim a	A buatta n gerrin a	Ï
Aninalia	M am m a lia	Primates	A te lidae	A buatta	sara	A buatta sara	ĬĬ
Animalia	M am m a lia	Primates	A te lidae	A buatta	seniculus	A buatta seniculus	Ī
Aninalia	M am m a lia	Primates	A te lidae	A te les	be kebuth	A te les be kebuth	II
Animalia	M am m a lia	Primates	A te lidae	A te les	cham ek	A te les cham ek	II
Animalia	M am m a lia	Primates	A te lidae	A te les	m arginatus	A te les m arginatus	II
Animalia	M am m a lia	Primates	A te lidae	A te les	pan iscus	A te les pan iscus	II
Animalia	Mammalia	Primates	A te lidae	B rachyte les	arachno ides	Brachyte les arachno ides	I
Animalia	M am m a lia	Primates	A te lidae	B rachyte les	hypoxanthus	Brachyte bs hypoxanthus	I
Animalia	M am m a lia	Primates	A te lidae	Lagothrix	cana	Lagothrix cana	II
Animalia	M am m a lia	Primates	A te lidae	Lagothrix	agotricha	Lagothrix lagotricha	II
Aninalia	M am m a lia	Primates	A te lidae	Lagothrix	poeppigii	Lagothrix poeppigii	II
Animalia	M am m a lia	Primates	A te lidae	0 reonax	flavicauda	0 reonax flavicauda	I
Aninalia	M am m a lia	Primates	Cebidae	Callin ico	goe dii	Callin ico goe blii	I
Animalia	M am m a lia	Primates	Cebidae	Callithrix	acariensis	Callithrix acariensis	II
Aninalia	M am m a lia	Primates	Cebidae	Callithrix	argentata	Callithrix argentata	II
Animalia	M am m a lia	Primates	C eb idae	Callithrix	aurita	Callithrix aurita	I
Animalia	M am m a lia	Primates	Cebidae	Callithrix	chryso buca	Callithrix chrysoleuca	П
Animalia	M am m a lia	Primates	Cebidae	Callithrix	em iliae	Callithrix em iliae	II
Aninalia	M am m a lia	Primates	Cebidae	Callithrix	flaviceps	Callithrix flaviceps	I
Aninalia	M am m a lia	Primates	Cebidae	Callithrix	geoffroyi	Callithrix geoffroyi	II
Aninalia	M am m a lia	Primates	Cebidae	Callithrix	hum era lifera	Callithrix hum eralifera	II
Aninalia	M am m a lia	Primates	Cebidae	Callithrix	hum ilis	Callithrix hum ilis	II
Aninalia	M am m a lia	Primates	Cebidae	Callithrix	n term ed ia	Callithrix intermedia	II
Anmalia	M am m a lia	Primates	Cebidae	Callithrix	jacchus	Callithrix jacchus	II
Aninalia	M am m a lia	Prim ates	Cebidae	Callithrix	kuh lii	Callithrix kuh lii	II
Anmalia	M am m a lia	Primates	Cebidae	Callithrix	euc ppe	Callithrix eucippe	II
Aninalia	Mammalia	Primates	Cebidae	Callithrix	m an icorensis	Callithrix manicorensis	II .
Aninalia	Mammalia	Primates	Cebidae	Callithrix	marcai	Callithrix marcai	II
Aninalia	Mammalia	Primates	Cebidae	Callithrix Callithrix	mauesi	Callithrix mauesi	II II
An in a lia	Mammalia	Primates Primates	C eb idae C eb idae	Callithrix	m e lanura	Callithrix m e lanura	II
Aninalia Aninalia	Mammalia		Cebidae		n griceps	Callithrix nigriceps	II
Anmalia Anmalia	M am m a lia M am m a lia	Primates Primates	Cebidae	Callithrix Callithrix	pen ic illata	Callithrix penicillata Callithrix pygmaea	II
Aninalia	M am m a lia	Primates	Cebidae	Callithrix	pygm ae a sate re i	Callithrix satere i	II
Aninalia	M am m a lia	Primates	Cebidae	Cebus	abifrons	Cebus abifrons	II
Aninalia	M am m a lia	Primates	Cebidae	Cebus	ape la	Cebus ape la	II
Animalia	M am m a lia	Primates	Cebidae	Cebus	flavius	Cebus flavius	II
Aninalia	M am m a lia	Primates	Cebidae	Cebus	kaapori	Cebus kaapori	II
Animalia	M am m a lia	Primates	Cebidae	Cebus	Ibidinosus	Cebus Ibidinosus	II
Animalia	M am m a lia	Primates	Cebidae	Cebus	n igritus	Cebus nigritus	II
Animalia	M am m a lia	Prim ates	Cebidae	Cebus	o livaceus	Cebus o livaceus	II
Aninalia	M am m a lia	Primates	Cebidae	Cebus	xanthosternos	Cebus xanthosternos	II
Animalia	M am m a lia	Primates	Cebidae	Leontopithecus	caissara	Leontopithecus caissara	I
Animalia	M am m a lia	Primates	Cebidae	Leontopithecus	chrysom e las	Leontopithecus chrysom e las	I
Animalia	M am m a lia	Primates	Cebidae	Leontopithecus	chrysopygus	Leontopithecus chrysopygus	I
Animalia	M am m a lia	Primates	C eb idae	1	rosalia	Leontopithecus rosalia	I
Animalia	M am m a lia	Primates	C eb idae	M ico	rondoni	M co rondoni	II
Aninalia	M am m a lia	Primates	Cebidae	Saguinus	bicobr	S agu nus bico br	I
Aninalia	M am m a lia	Primates	C eb idae	Saguinus	fusc ico llis	S agu nus fusc ico llis	II
Aninalia	M am m a lia	Primates	Cebidae	Saguinus	im perator	Saguinus imperator	II
Animalia	M am m a lia	Primates	C eb idae	Sagunus	nustus	Saguinus inustus	II
Anmalia	M am m a lia	Primates	Cebidae	Sagunus	abiatus	Saguinus labiatus	II
Aninalia	M am m a lia	Prim ates	C eb idae	Saguinus	martinsi	Sagu nus marthsi	I
Aninalia	M am m a lia	Prim ates	Cebidae	Sagunus	m e lano leucus	Saguinus m e lano leucus	II
Aninalia	M am m a lia	Prim ates	Cebidae	Saguinus	m idas	Saguinus midas	II
Aninalia	M am m a lia	Prim ates	Cebidae	Sagunus	m ystax	Sagu nus m ystax	II
Anmalia	Mammalia	Primates	Cebidae	Saguinus	niger	Saguinus niger	II
				•			
Animalia	M am m a lia	Prim ates	Cebidae	Sagunus	n igrico llis	Saguinus nigrico llis	II
Aninalia	M am m a lia M am m a lia	Primates Primates	Cebidae Cebidae	Saguinus	pileatus	S agu nus pileatus	II
	M am m a lia	Prim ates	Cebidae				

Table A3 List of CITES registered animals in Brazil (continued, 3/20)

Animalia	M am m a lia	Primates	Cebidae	Com iri	ustus	Com iriuctuo	11
Aninalia	M am m a lia	Primates	Cebidae	Samiri Samiri	vanzo lin ii	Sam riustus Sam rivanzolnii	II
Animalia	M am m a lia	Primates	P ithec iidae	Cacajao	ayresi	Cacago ayresi	II
Animalia	M am m a lia	Primates	P ithec iidae	Cacajao	calvus	Caca ao ca vus	Ī
Animalia	M am m a lia	Primates	P ithec iidae	Cacajao	hosom i	Cacajao hosom i	I
Animalia	M am m a lia	Primates	P ithec iidae	Cacajao	m e lanocepha lus	Cacajaom e lanocepha lus	I
Animalia	M am m a lia	Primates	P ithec iidae	Callicebus	baptista	Callicebus baptista	II
Animalia	M am m a lia	Primates	P ithec iidae	Callicebus	barbarabrownae	Callicebus barbarabrownae	II
Anmalia	M am m a lia	Primates	P ithec iidae	Callicebus	bernhardi		II
Anmalia	M am m a lia	Primates	P ithec iidae	Callicebus	brunneus		II
Animalia	M am m a lia	Primates	P ithec iidae	Callicebus	caligatus		II
Aninalia	M am m a lia	Primates	P ithec iidae	Callicebus	c nerascens		II
Aninalia	M am m a lia	Primates	P ithec iidae	Callicebus	com brai		II
Anmalia	M am m a lia	Primates	P ithec iidae	Callicebus	cupreus		II
Anmalia	M am m a lia	Primates	P ithec iidae	Callicebus	dubius		<u>II</u>
Aninalia	M am m a lia	Primates	P ithec idae	Callicebus	hoffmannsi		II
Aninalia Aninalia	M am m a lia M am m a lia	Primates	P ithec iidae P ithec iidae	Callicebus Callicebus	ucifer ugens		II II
Aninalia	M am m a lia	Primates Primates	P ithec idae	Callicebus	m e lanoch ir		II
Animalia	M am m a lia	Primates	P ithec idae	Callicebus	m o bch		II
Aninalia	M am m a lia	Primates	P ithec idae	Callicebus	n igrifrons		II
Aninalia	M am m a lia	Primates	P ithec idae	Callicebus	palescens		II
Animalia	M am m a lia	Primates	P ithec idae	Callicebus	personatus		II
Animalia	M am m a lia	Primates	P ithec idae	Callicebus	purhus		II
Animalia	M am m a lia	Primates	P ithec iidae	Callicebus	regulus		II
Animalia	M am m a lia	Primates	P ithec idae	Callicebus	stephennash i		II
Animalia	M am m a lia	Primates	P ithec iidae	Callicebus	torquatus		II
Animalia	M am m a lia	Primates	P ithec iidae	Ch iropotes	abnasus	·	Ī
Animalia	M am m a lia	Primates	P ithec iidae	Ch iropotes	ch iropotes	Ch iropotes ch iropotes	II
Animalia	M am m a lia	Primates	P ithec iidae	Ch iropotes	israe lita	Ch iropotes israe lita	II
Anmalia	M am m a lia	Primates	P ithec iidae	Ch iropotes	satanas		II
Aninalia	M am m a lia	Primates	P ithec iidae	Ch iropotes	utah ickae		II
Aninalia	M am m a lia	Primates	P ithec iidae	P ithec ia	abicans		II
Animalia	M am m a lia	Primates	P ithec iidae	P ithec ia	irrorata		II
Animalia	M am m a lia	Primates	P ithec idae	P ithec ia	m onachus		II
Animalia	M am m a lia	Primates	P ithec iidae	P ithec ia	pithecia		II
Aninalia	M am m a lia	Rodentia	Cun icu lidae	Cuniculus	paca		III
An in a lia	Mammalia	Rodentia	Dasyproctidae	D asyprocta	punctata		III
Aninalia Aninalia	M am m a lia M am m a lia	Rodentia Sirenia	Ereth zontidae Trichech idae	Sphiggurus Trichechus	spinosus inunguis		III I
Aninalia	M am m a lia	Sirenia	Trichech idae	Trichechus	m anatus		I .
Animalia	Aves	Anseriformes	Anatidae	Carna	m oschata		III
Animalia	Aves	Anseriformes	Anatidae	Coscoroba	coscoroba		II
Animalia	Aves	Anseriformes	Anatidae	Cygnus	m e lancoryphus		II
Animalia	Aves	Anseriformes	Anatidae	Dendrocygna	autum na lis		III
Aninalia	Aves	Anseriformes	Anatidae	Dendrocygna	bico br		III
Animalia	Aves	Anseriformes	Anatidae	Sarkidiornis	m e lanotos	Sarkidiorn is melanotos	II
Animalia	Aves	A podiform es	Troch ilidae	Am az ilia	bre v irostr is	Am az ilia brevirostris	II
Animalia	Aves	A podiform es	Troch ilidae	Am az ilia	ch bnogaster	Am az ilia ch ionogaster	II
Animalia	Aves	A podiform es	Troch ilidae	Am az ilia	cupre cauda		II
Animalia	Aves	Apodiformes	Troch ilidae	Am az ilia	fin briata		II
Animalia	Aves	Apodiformes	Troch ilidae	Am az ilia	actea		II
Aninalia	Aves	Apodiformes	Troch ilidae	Am az ilia	eucogaster	,	II .
Aninalia	Aves	Apodiformes	Troch ilidae	Am az ilia	rondon ae		II
Aninalia	Aves	Apodiformes	Troch ilidae	Am az ilia	versico br		II .
An in a lia	Aves	A podiform es	Troch ilidae	Anopeta	goune le i		II
Aninalia Aninalia	Aves	A podiform es	Troch ilidae	Anthracothorax	n igrico llis		II II
	Aves	A podiform es	Troch ilidae	Anthracothorax	recurvirostris	Anthracothorax recurvirostric	
Animalia Animalia	Aves	A podiformes A podiformes	Troch ilidae	Anthracothorax	viridigu la		II
Animalia Animalia	A ves A ves	Apodiformes	Troch ilidae Troch ilidae	Aphantochroa Augastes	Lum ache la		II II
Aninalia	Aves	Apodiformes	Troch ilidae	Augastes	scutatus		II
Aninalia	Aves	A pod iform es	Troch ilidae	Callph bx	am ethystina		II
Aninalia	Aves	A pod iform es	Troch ilidae	Cam py bpterus	du idae		II
Aninalia	Aves	A pod iform es	Troch ilidae	Cam py bpterus	hyperythrus		II
Animalia	Aves	Apodiformes	Troch ilidae	Cam py bpterus	arg penn is		II
Anmalia	Aves	Apodiformes	Troch ilidae	Ch brostibon	Lic idus		II
Animalia	Aves	Apodiformes	Troch ilidae	Ch brostibon	m e llisugus		II
Anmalia	Aves	Apodiformes	Troch ilidae	Ch brostibon	notatus		II
Animalia	Aves	Apodiformes	Troch ilidae	Chrysolam pis	m osquitus	Chrysolam pis mosquitus	II
Animalia	Aves	Apodiformes	Troch ilidae	Chrysuronia	oenone		II
Animalia	Aves	Apodiformes	Troch ilidae	C lyto laem a	rubricauda		II
		116	T 1 221	Colbri	OOMICOODC	Colbricoruscans	II
Anmalia	Aves	Apodiformes	Troch ilidae	COIDIT	coruscans		
Animalia Animalia Animalia	A ves A ves	A pod from es A pod from es A pod from es	Troch ilidae Troch ilidae Troch ilidae	Colbri Colbri	de þh nae serrirostris	Colbride þhinae	II II

Table A3 List of CITES registered animals in Brazil (continued, 4/20)

Animalia	Aves	Apodiformes	Troch ilidae	D iscosura	angsdorffi	D iscosura langsdorffi	III
Aninalia	Aves	Apodiformes	Troch ilidae	D iscosura	bngicaudus	D iscosura bingicaudus	II
Animalia	Aves	Apodiformes	Troch ilidae	Doryfera	phannae	Doryfera johannae	II
Animalia	Aves	A pod iform es	Troch ilidae	Eu lam pis	jugu bris	Eu lam pis jugu laris	II
Animalia	Aves	A pod iform es	Troch ilidae	Eupetom ena	macroura	Eupetom ena macroura	II
Animalia	Aves	A pod iform es	Troch ilidae	Fbrisuga	fusca	F brisuga fusca	II
Aninalia	Aves	A podiform es	Troch ilidae	Fbrisuga	m e llivora	F brisuga m e llivora	II
Anmalia	Aves	A podiform es	Troch ilidae	G lauc is	dohrnii	G lauc is dohrn ii	I
Animalia	Aves	Apodiformes	Troch ilidae	G buc is	h irsutus	G lauc is h irsutus	II
Animalia	Aves	A podiform es	Troch ilidae	He lacth	bibphus	Heliactin bibphus	II
Animalia	Aves	Apodiformes	Trochilidae	H e liodoxa	aurescens	Heliodoxa aurescens	II
Animalia	Aves	Apodiformes	Troch ilidae	H e liodoxa	gu laris	H e liodoxa gu laris	II
Animalia	Aves	A podiform es	Troch ilidae	H e liodoxa	schre bers ii	He liodoxa schre bers ii	II
Animalia	Aves	Apodiformes	Troch ilidae	H e liodoxa	xanthogonys	He liodoxa xanthogonys	II
Animalia	Aves	Apodiformes	Troch ilidae	Heliomaster	furc ifer	Heliom aster furcifer	II
Animalia	Aves	A podiform es	Troch ilidae	He liom aster	bngirostris	Heliom aster bngirostris	II
Animalia	Aves	Apodiformes	Troch ilidae	Heliomaster	squamosus	Heliom aster squam osus	II
Anmalia	Aves	Apodiformes	Troch ilidae	Heliothryx	auritus	He liothryx auritus	II
Animalia	Aves	Apodiformes	Troch ilidae	Hybcharis	chrysura	Hybcharis chrysura	II
Animalia	Aves	Apodiformes	Troch ilidae	Hybcharis	cyanus	Hybcharis cyanus	II
Animalia	Aves	Apodiformes	Troch ilidae	Hybcharis	sapph irina	Hybcharis sapphirna	II
Animalia	Aves	Apodiformes	Troch ilidae	Klais	gu im eti	K ais gu in e ti	II
Animalia	Aves	Apodiformes	Trochilidae	Leuc ippus	ch brocercus	Leuc ppus ch brocercus	II
Aninalia	Aves	A podiform es	Trochilidae	Leucochbris	a b ico llis	Leucoch bris a bico llis	II
Aninalia	Aves	A podiform es	Trochilidae	Lophornis	chalybeus	Lophorn is chalybeus	II
Aninalia	Aves	A podiform es	Troch ilidae	Lophornis	gou bii	Lophorn is gou blii	II
Aninalia	Aves	A podiform es	Troch ilidae	Lophornis	m agn ificus	Lophorn is m agn ificus	II
Animalia	Aves	A podiform es	Troch ilidae	Lophornis	ornatus	Lophorn is ornatus	II
Aninalia	Aves	A podiform es	Troch ilidae	Lophornis	pavon nus	Lophorn is pavon inus	II
Aninalia	Aves	A pod iform es	Troch ilidae	Phaethorn is	augusti	Phaethorn is augusti	II
Animalia	Aves	A podiform es	Troch ilidae	Phaethornis	bourc eri	Phaethorn is bourcier i	II
Animalia	Aves	A podiform es	Troch ilidae	Phaethorn is	eurynom e	Phaethorn is eurynom e	II
Aninalia	Aves	A podiform es	Troch ilidae	P hae thorn is	griseogu laris	Phaethorn is griseogu laris	II
Anmalia	Aves	A pod iform es	Troch ilidae	Phaethorn is	h ispidus	Phae thom is hispidus	II
Aninalia	Aves	Apodiformes	Trochilidae	Phaethorn is	ida liae	Phaethom is ida liae	II
Anmalia	Aves	Apodiformes	Troch ilidae	Phaethorn is	mabris	Phaethorn is malaris	II
Aninalia	Aves	Apodiformes	Trochilidae	P hae thorn is	nattereri	Phaethorn is natterer i	II
Anmalia	Aves	Apodiformes	Troch ilidae	P hae thorn is	ph ilipp ii	Phaethorn is philippii	II
Aninalia	Aves	Apodiformes	Troch ilidae	Phae thorn is	pretre i	Phaethorn is pretrei	II
Anmalia	Aves	Apodiformes	Troch ilidae	Phae thorn is	ruber	Phaethorn is ruber	II
Aninalia	Aves	Apodiformes	Troch ilidae	Phae thorn is	rupurum ii	Phaethorn is rupurum ii	II
Animalia	Aves	Apodiformes	Trochilidae	Phaethorn is	squalidus	Phaethorn is squalidus	II
Aninalia	Aves	Apodiformes	Trochilidae	Phaethorn is	subochraceus	Phaethorn is subochraceus	II
Anmalia	Aves	Apodiformes	Trochilidae	Phaethorn is	superc ilbsus	Phaethorn is superciliosus	II
Anmalia	Aves	A pod iform es	Trochilidae	Polytmus	guahumbi	Polytm us guainum bi	II
Anmalia	Aves	A pod iform es	Troch ilidae	Polytmus	m illeri	Polytmus milleri	II
Animalia	Aves	Apodiformes	Troch ilidae	Polytmus	theresiae	Polytmus theresiae	II
Animalia	Aves	Apodiformes	Troch ilidae	Ramphodon	naevius	Ram phodon naevius	II
Animalia	Aves	Apodiformes	Troch ilidae	Stephanoxis	alandi	Stephanoxis la landi	II
Aninalia	Aves	A podiform es	Trochilidae	Taphrospilus	hypostictus	Taphrospilus hypostictus	II
Aninalia	Aves	Apodiformes	Troch ilidae	Thalurania	furcata	Tha luran ia furcata	II
Animalia	Aves	Apodiformes	Trochilidae	Thalurania	glaucopis	Tha Liran ia glaucopis	II
Animalia	Aves	Apodiformes	Trochilidae	Thalurania	w aterton ii	Tha luran ia w aterton ii	II
Animalia	Aves	A pod iform es	Troch ilidae	Threnetes	niger	Threnetes niger	II
Animalia	Aves	A podiform es	Trochilidae	Topaza	pe la	Topaza pe la	II
Animalia	Aves	A pod iform es	Troch ilidae	Topaza	pyra	Topaza pyra	II
Anmalia	Aves	Charadriiform es	Burh in idae	Burhinus	bistriatus	Burh nus bistriatus	III
Animalia	Aves	Charadriiform es	S co bpac idae	Numenius	borealis	Num en ius borealis	l .
Aninalia	Aves	Ciconiiformes	C icon iidae	Jabiru	mycteria	Jabiru mycteria	I
Aninalia	Aves	Cicon iiform es	Phoen copteridae		andnus	Phoen coparrus and hus	II
Anmialia	Aves	Cicon iiform es	Phoen copteridae		jamesi	Phoenicoparrus jamesi	II
Animalia	Aves	C icon iiform es	Phoen copteridae		chilensis	Phoen copterus chilensis	II
Animalia	Aves	Ciconiiformes	Phoen copteridae		ruber	Phoen copterus ruber	II
Animalia	Aves	Ciconiiformes	Thresk iorn ith idae		ruber	Eudocimus ruber	II
Animalia	Aves	Cicon iiform es	Thresk iorn ith idae		eucorodia	P ata ea eucoroda	II
Animalia	Aves	Falcon iform es	A cc pitridae	Accipiter	bicobr	Accipiter bicobr	II
Animalia	Aves	Falcon iform es	Accipitridae	Accipiter	po lingaster	Accipiter poliogaster	II
Animalia	Aves	Falcon iform es	Accipitridae	Accipiter	stratus	Accipiter striatus	II
Aninalia	Aves	Falconiformes	Accipitridae	Accipiter	superc iliosus	Accipiter superciliosus	II
Aninalia	Aves	Falconiformes	A cc pitridae	Asturna	n itida	A sturna nitida	II
Aninalia	Aves	Falcon iform es	Accipitridae	Busare lus	n igrico llis	Busare llus nigrico llis	II
Animalia	Aves	Falcon iform es	Accipitridae	Buteo	a b ic audatus	Buteo abicaudatus	II
Anmalia	Aves	Falcon iform es	Accipitridae	Buteo	a bono tatus	Buteo abonotatus	II
Anmalia	Aves	Falcon iform es	A c c p itridae	Buteo	brachyurus	Buteo brachyurus	II
Anmialia	Aves	Falconiformes	A c c ip itridae	Buteo	bucorrhous	Buteo Eucorrhous	II

Table A3 List of CITES registered animals in Brazil (continued, 5/20)

Animalia	Avoc	Eahan iform as	A o o in itridao	Buteo	m ogn irostrin	Rutos magnirostrin	III
Aninalia	A ves A ves	Faconiformes Faconiformes	Accipitridae Accipitridae	Buteo	m agn irostris platypterus	Buteo magnirostris Buteo platypterus	II
Aninalia	Aves	Falcon iform es	Accipitridae	Buteo	po lyo som a	Buteo po lyosom a	II
Animalia	Aves	Falcon iform es	Accipitridae	Buteo	swansoni	Buteo swansoni	II
Anmalia	Aves	Fabon iform es	A c c p itridae	Buteogallus	aequinoctialis	Buteogallus aequinoctialis	II
Anmalia	Aves	Faconiformes	Accipitridae	Buteogallus	meridionalis	Buteogallus meridionalis	II
Anmalia	Aves	Falconiformes	A c c ip itridae	Buteogallus	urubitinga	Buteogallus urubitinga	II
Aninalia	Aves	Falcon iform es	A c c ip itridae	C ircus	buffon i	C ircus buffon i	II
Anmialia	Aves	Fabon iform es	Accipitridae	C ircus	chereus	C ircus c nereus	II
Anmalia	Aves	Faconiformes	Accipitridae	E lano ides	forficatus	E anoides forficatus	II
Aninalia	Aves	Falconiformes	A cc pitridae	Elanus	eucurus	E anus eucurus	II
Aninalia Aninalia	A ves	Falcon iform es	A cc ip itridae A cc ip itridae	Gam psonyx Geranoaetus	m e lano le ucus	G am psonyx swainson ii G e ranoae tus m e lano leucus	II
Aninalia	Aves	Falcon iform es	A cc pitridae	Geranospiza	caeru escens	Geranospiza caeru escens	II
Animalia	Aves	Faconiformes	A cc ip itridae	Harpagus	bidentatus	Harpagus bidentatus	II
Aninalia	Aves	Falcon iform es	A c c p itridae	Harpagus	diodon	Harpagus diodon	II
Animalia	Aves	Faconiformes	A c c ip itridae	Harpia	harpy ja	Harpia harpyja	I
Anmalia	Aves	Faconiformes	A cc ip itridae	Harpyhaliaetus	coronatus	Harpyhaliaetus coronatus	II
Aninalia	Aves	Falconiformes	A cc pitridae	Harpyhaliaetus	so litarius	Harpyhaliae tus so litar ius	II
Animalia	Aves	Falconiformes	Accipitridae	Ictinia	m ississippiensis	Ictnamississippiensis	II
Aninalia	Aves	Falconiformes	Accipitridae	Ictinia	plum bea	Ictin ia plum bea	II
An in a lia	Aves	Falconiformes	A c c ip itridae	Leptodon	cayanens is	Leptodon cayanensis	II
Animalia Animalia	A ves A ves	Falcon iform es	Accipitridae Accipitridae	Leucoptem is	abico llis kuh li	Leucoptern is abico llis Leucoptern is kuh li	II
Aninalia	Aves	Falcon iform es	Acc pitridae	Leucoptern is	acernu atus	Leucoptern is lacernu latus	II
Animalia	Aves	Falcon iform es	A c c ip itridae	Leucoptern is	m e lanops	Leucoptern is m e lanops	II
Animalia	Aves	Falcon iform es	A c c ipitridae	Leucopternis	polionotus	Leucoptern is po libnotus	II
Animalia	Aves	Falconiformes	Accipitridae	Leucoptern is	sch istaceus	Leucoptern is sch istaceus	II
Animalia	Aves	Falconiformes	Accipitridae	Morphnus	gu ianens is	M orphnus gu ianens is	II
Animalia	Aves	Falconiformes	A cc ip itridae	Parabuteo	un ic inc tus	Parabuteo un icinctus	II
Aninalia	Aves	Falcon iform es	A cc ip itridae	Rostrhamus	ham atus	Rostrham us ham atus	II
Aninalia	Aves	Falconiformes	Accipitridae	Rostrhamus	sociabilis	Rostrham us sociabilis	II
Aninalia Aninalia	A ves A ves	Falcon iform es Falcon iform es	A cc pitridae	Spizaetus	ornatus	Spizaetus ornatus	II
Aninalia	Aves	Facon iform es	A cc ipitridae A cc ipitridae	Spizaetus Spizastur	m e lano leucus	Spizaetus tyrannus Spizastur m e ano eucus	II
Aninalia	Aves	Falcon iform es	Cathartidae	Sarcoram phus	papa	Sarcoram phus papa	III
Animalia	Aves	Fabon iform es	Cathartidae	Vultur	gryphus	Vultur gryphus	I
Aninalia	Aves	Falconiformes	Falcon idae	Caracara	cherway	Caracara cheriway	II
Animalia	Aves	Falconiformes	Falcon idae	Caracara	plancus	Caracara plancus	II
Animalia	Aves	Falconiformes	Falconidae	Daptrius	ater	Daptrus ater	II
Animalia	Aves	Faboniformes	Falconidae	Fabo	de iro leucus	Falco de iro leucus	II
Aninalia	Aves	Falconiformes	Falconidae	Fabo	fem oralis	Falco femoralis	II
Anmalia	Aves	Falcon iform es	Falconidae	Falco	peregrinus	Fabo peregrinus	I
An in a lia	Aves	Facon iform es	Falconidae Falconidae	Fabo Fabo	rufigu lar is	Faborufguaris	II
Animalia Animalia	A ves A ves	Falcon iform es	Falconidae	Faco	tinnuncu lis	Fabo sparverius Fabo tinnunculus	II
Aninalia	Aves	Falcon iform es	Falcon idae	Herpetotheres	cachinnans	Herpe to the res cach innans	II
Animalia	Aves	Fabon iform es	Falconidae	l bycter	am ericanus	Ibycter am ericanus	ΪΪ
Animalia	Aves	Falcon iform es	Falconidae	M icrastur	buckeyi	M crastur buckleyi	II
Animalia	Aves	Faconiformes	Falconidae	M icrastur	gilvicollis	M icrastur gilvico llis	II
Aninalia	Aves	Faboniformes	Falcon idae	M icrastur	m intoni	M crastur m intoni	II
Aninalia	Aves	Falconiformes	Falconidae	M icrastur	m irando le i	M icrastur m irando lle i	II
Aninalia	Aves	Falconiformes	Falconidae	Micrastur	ruficollis	M crastur ruficollis	II
An in a lia	Aves	Falcon iform es	Fabonidae	M icrastur	sem itorquatus	M icrastur sem itorquatus	II
Animalia Animalia	A ves A ves	Falcon iform es	Falconidae Falconidae	M ilvago M ilvago	ch m ach m a	M ilvago chim achim a M ilvago chim ango	II
Aninalia	Aves	Falcon iform es	Pandion idae	Pandion	haliaetus	Pandion haliaetus	II
Aninalia	Aves	Galliformes	C rac idae	Crax	b lum enbach ii	C rax b lum enbach ii	I
Animalia	Aves	Galliformes	C rac idae	Crax	g bbu bsa	C rax g bbu bsa	III
Animalia	Aves	Galliformes	C rac idae	M itu	m itu	M itu m itu	Ĭ
Animalia	Aves	Galliformes	C rac idae	Pipile	jacutinga	P pile jacutinga	I
Aninalia	Aves	Passeriformes	Cotingidae	Cephabpterus	ornatus	C epha bpte rus o matus	III
Anmalia	Aves	Passer iform es	Cotingidae	Cotinga	m acu ata	Cotinga m acu lata	l
Aninalia	Aves	Passeriformes	Cotingidae	Rupicola	rupico la	Rupico la rupico la	II
Animalia Animalia	Aves	Passeriformes	Cotingidae	X pho ena	atropurpurea	X pho ena atropurpurea	I
Aninalia Aninalia	A ves	Passeriform es Passeriform es	Em berizidae Em berizidae	Gubernatrix Paroaria	cristata capitata	Gubernatrix cristata Paroaria capitata	II
Aninalia	Aves	Passeriform es	Em berizidae	P aroar ia	coronata	Paroaria capitata	II
Aninalia	Aves	Passeriform es	Em berizidae	Tangara	fastuosa	Tangara fastuosa	II
Animalia	Aves	Passeriform es	Fringillidae	Cardue lis	yarre Ilii	Cardue lis yarre Ilii	II
Animalia	Aves	Passeriformes	Icteridae	Xanthopsar	favus	X anthopsar flavus	I
Animalia	Aves	Piciformes	Ramphastidae	Bailbnius	ba ilbn i	Bailbn ùs bailbn i	III
Aninalia	Aves	Piciformes	Ramphastidae	Pterogbssus	aracari	P terog bssus aracari	II
Aninalia	Aves	Piciformes	R am phastidae	Pterogbssus	castanotis	P terog bssus castanotis	III
Animalia	Aves	Piciformes	Ramphastidae	Pterogbssus	viridis	P terog b ssus viridis	II

Table A3 List of CITES registered animals in Brazil (continued, 6/20)

Animalia	Aves	Piciform es	Ramphastidae	Ramphastos	dico brus	Ram phastos dico brus	III
Animalia	Aves	Piciform es	Ramphastidae	Ramphastos	toco	Ram phastos toco	II
Aninalia	Aves	Piciformes	Ramphastidae	Ramphastos	tucanus	Ram phastos tucanus	II
Aninalia	Aves	Piciform es	Ramphastidae	Ramphastos	vite Ilinus	Ram phastos vite linus	II
Aninalia 	Aves	Piciformes	Ramphastidae	Selen idera	m acu irostris	S e len idera m acu lirostris	III
Animalia Animalia	Aves	Psittaciformes	P s ittac idae	Am azona	aestiva	Am azona aestiva	II II
Aninalia Aninalia	A ves A ves	P s ittac ifo m es P s ittac ifo m es	P s ittac idae P s ittac idae	Am azona Am azona	am azon ica au tum na lis	Am azona am azon ca Am azona autum na lis	II
Aninalia	Aves	P s ittac iform es	P s ittac idae	Am azona	brasiliensis	Am azona brasiliensis	I/ II
Animalia	Aves	P s ittac iform es	P s ittac idae	Am azona	brasiliensis	Am azona brasiliensis	I/II
Aninalia	Aves	P s ittac ifo m es	P s ittac idae	Am azona	du fre sn iana	Am azona du fre sniana	II
Animalia	Aves	P s ittac ifo m e s	P s ittac idae	Am azona	farnosa	Amazona farnosa	II
Aninalia	Aves	P s ittac ifo m e s	P s ittac idae	Am azona	festiva	Am azona festiva	II
Aninalia	Aves	P s ittac ifo m es	P s ittac idae	Am azona	kaw a Ili	Am azona kawalli	II
<u>Aninalia</u>	Aves	P s ittac iform es	P s ittac idae	Am azona	ochrocephala	Am azona ochrocephala	II
Aninalia	Aves	P s ittac iform es	P s ittac idae	Am azona	pre tre i	Am azona pretrei	1
Aninalia Aninalia	A ves A ves	P s ittac iform es P s ittac iform es	P s ittac idae P s ittac idae	Am azona Am azona	rhodocorytha vhacea	Am azona rhodocorytha Am azona vinacea	1
Aninalia	Aves	P s ittac iform es	P s ittac idae	Amazona	xanthops	Am azona xanthops	II
Aninalia	Aves	P s ittac iform es	P s ittac idae	Anodorhynchus	glaucus	Anodorhynchus glaucus	I
Animalia	Aves	P s ittac iform es	P s ittac idae	Anodorhynchus	hyac nth nus	Anodorhynchus hyac nth nus	Ī
Animalia	Aves	P s ittac iform es	P s ittac idae	Anodorhynchus	eari	Anodorhynchus bari	I
Animalia	Aves	P s ittac iform e s	P s ittac idae	Ara	ararauna	A ra ararauna	II
Aninalia	Aves	P s ittac iform e s	P s ittac idae	Ara	ch bropterus	A ra ch bropterus	II
Aninalia	Aves	P s ittac iform es	P s ittac idae	Ara	m ac ao	A ra m acao	I
Animalia	Aves	P s ittac iform es	P s ittac idae	Ara	severus	A ra severus	II
Aninalia	Aves	P s ittac iform es	P s ittac idae	Aratinga	acuticaudata	A ratinga acuticaudata	II
Animalia	Aves	P s ittac iform es	P s ittac idae	Aratinga	aurea	A ratinga aurea	II
Animalia	Aves	Psittaciformes	P s ittac idae	Aratinga	auricapillus	A ratinga auricapillus	II II
Aninalia Aninalia	Aves	P s ittac iform es P s ittac iform es	P s ittac idae P s ittac idae	A ratinga A ratinga	andava	A ratinga cactorum A ratinga andava	II
Aninalia	Aves	P s ittac iform es	P s ittac dae	Aratinga	eucophthalm a	A ratinga bucophthalma	II
Aninalia	Aves	P s ittac iform es	P s ittac idae	Aratinga	m acu ata	A ratinga macu ata	II
Aninalia	Aves	P s ittac ifo m es	P s ittac idae	Aratinga	pertnax	A ratinga pertinax	II
Animalia	Aves	P s ittac iform e s	P s ittac idae	Aratinga	so Istitia lis	A ratinga so stitialis	II
Animalia	Aves	P s ittac iform e s	P s ittac idae	Aratinga	w e dde llii	A ratinga w edde llii	II
Animalia	Aves	P s ittac iform e s	P s ittac idae	Brotogeris	ch ir i	Brotogeris chiriri	II
Animalia	Aves	P s ittac iform e s	P s ittac idae	Brotogeris	chrysoptera	Brotogeris chrysoptera	II
Aninalia	Aves	P s ittac iform es	P s ittac idae	Brotogeris	cyanoptera	Brotogeris cyanoptera	II
Animalia	Aves	P s ittac iform es	P s ittac idae	Brotogeris	sanctithom ae	Brotogeris sanctithom ae	II
Animalia	Aves	Psittaciformes	P s ittac idae P s ittac idae	Brotogeris	trica	Brotogeris tirica	II
Animalia Animalia	Aves	P s ittac iform es P s ittac iform es	P s ittac idae	B ro toger is C yanops itta	versico urus spixii	Brotogeris versicolurus Cyanopsitta spikii	I
Aninalia	Aves	P s ittac iform es	P s ittac dae	Deroptyus	accipitrinus	Deroptyus accipitrinus	II
Animalia	Aves	P s ittac iform es	P s ittac idae	D ipps ittaca	nobilis	D ipps ittaca nobilis	II
Animalia	Aves	P s ittac ifo m es	P s ittac idae	Forpus	modestus	Forpus modestus	II
Animalia	Aves	P s ittac iform es	P s ittac idae	Forpus	passerhus	Forpus passer nus	II
Aninalia	Aves	P s ittac iform es	P s ittac idae	Forpus	xanthopterygius	Forpus xanthopterygius	II
Animalia	Aves	P s ittac ifo m es	P s ittac idae	G raydidascalus	brachyurus	G rayd dasca us brachyurus	II
Aninalia	Aves	P s ittac ifo rm es	P s ittac idae	Guarouba	guarouba	Guarouba guarouba	I
Aninalia	Aves	P s ittac iform es	P s ittac idae	M y iops itta	monachus	M y pps itta m onachus	II
Aninalia Aninalia	Aves	P s ittac iform es	P s ittac idae P s ittac idae	Nandayus	nenday dach illeae	Nandayus nenday	II II
Aninalia Aninalia	A ves A ves	P s ittac iform es	P s ittac idae	Nannopsittaca Nannopsittaca	panych bra	Nannopsittada dachilleae Nannopsittada panychbra	II
Aninalia	Aves	P s ittac iform es	P s ittac idae	0 rthops ittaca	m an ilata	0 rthops ittaca m an iata	II
Animalia	Aves	P s ittac iform es	P s ittac idae	P ion ites	bucogaster	P ion ites leucogaster	II
Animalia	Aves	P s ittac iform es	P s ittac idae	Pionites	m e anocephalis	P ion ites m e lanocepha lus	II
Aninalia	Aves	P s ittac iform es	P s ittac idae	P innopsitta	aurantiocephala	P ionopsitta aurantiocepha la	II
Animalia	Aves	P s ittac iform es	P s ittac idae	P innops itta	barrabandi	P ionops itta barrabandi	II
Aninalia	Aves	P s ittac iform es	P s ittac idae	P innops itta	caica	P ionopsitta caica	II
Animalia	Aves	P s ittac iform es	P s ittac idae	P ionops itta	pileata	P inops itta pileata	I
Animalia	Aves	P s ittac iform es	P s ittac idae	P ionops itta	vulturna	P ionopsitta vulturina	II
Animalia Animalia	Aves	P s ittac iform es	P s ittac idae	Pinnus	fuscus m ovim ilian i	P bnus fuscus	II
Aninalia Aninalia	A ves A ves	P s ittac iform es P s ittac iform es	P s ittac idae P s ittac idae	P ionus P ionus	m ax in ilian i m enstruus	P bnus m ax m ilan i P bnus m enstruus	II II
Aninala	Aves	P s ittac iform es	P s ittac idae	Primolius	aurico llis	Primolius auricollis	II
Aninalia	Aves	P s it tac iform es	P s ittac idae	Primolius	coubni	Prim o lus cou bn i	I
Animalia	Aves	P s ittac iform es	P s ittac idae	Primolius	m aracana	Prim o lius m aracana	I
Aninalia	Aves	P s ittac iform es	P s ittac idae	Pyrrhura	cruentata	Pyrrhura cruentata	I
Animalia	Aves	P s ittac iform e s	P s ittac idae	Pyrrhura	de ville i	Pyrrhura deville i	II
Aninalia	Aves	P s ittac iform e s	P s ittac idae	Pyrrhura	egregia	Pyrrhura egregia	II
Animalia	Aves	P s ittac iform e s	P s ittac idae	Pyrrhura	frontalis	Pyrrhura frontalis	II
Animalia	Aves	P s ittac iform es	P s ittac idae	Pyrrhura	grise pectus	Pyrrhura grise pectus	II
Animalia	Aves	P s ittac iform es	P s ittac idae	Pyrrhura	lepida	Pyrrhura lepida	II
Aninalia	Aves	P s ittac iform es	P s ittac idae	Pyrrhura	eucotis	Pyrrhura Eucotis	II

Table A3 List of CITES registered animals in Brazil (continued, 7/20)

A in lin	Aver	In - ith if	- دان - دلان -	In		Dh	l 11
Aninalia Aninalia	A ves	P s ittac iform es P s ittac iform es	P s ittac idae P s ittac idae	Pyrrhura Pyrrhura	m e lanura m o linae	Pyrrhura m e lanura	II
Aninalia	Aves	P s ittac iform es	P s ittac idae	P yrrhura	perlata	Pyrrhura m o linae Pyrrhura per lata	II
Aninalia	Aves	P s ittac iform es	P s ittac idae	Pyrrhura	pfrimeri	Pyrrhura pfrim eri	II
Animalia	Aves	P s ittac iform es	P s ittac idae	Pyrrhura	picta	Pyrrhura picta	II
Animalia	Aves	P s ittac iform es	P s ittac idae	Pyrrhura	rupico la	Pyrrhura rupico la	II
Animalia	Aves	P s ittac iform es	P s ittac idae	Touit	huetii	Tou it huetii	II
Animalia	Aves	P s ittac iform es	P s ittac idae	Touit	m e lanonotus	Tou it m e lanonotus	II
Animalia	Aves	P s ittac iform es	P s ittac idae	Touit	purpuratus	Tou it purpuratus	II
Animalia	Aves	P s ittac iform es	P s ittac idae	Touit	surdus	Tou it surdus	II
Animalia	Aves	P s ittac iform es	P s ittac idae	Triclaria	m a lach itacea	Tric aria m a ach itacea	II
Animalia	Aves	Rheiformes	R he idae	Rhea	am ericana	Rhea am ericana	II
Animalia	Aves	Strigiformes	S trigidae	A e go lius	harrisii	A ego lius harris ii	II
Aninalia	Aves	Strigiformes	S trigidae	Asio	flammeus	A sio flam m eus	II
Aninalia	Aves	Strigiformes	Strigidae	Asio	stygius	Asb stygius	II
Aninalia	Aves	Strigiformes	Strigidae	Athene	cun icu aria	A thene cun cu ara	II
Aninalia	Aves	Strigiformes	Strigidae	Bubo	virginianus	Bubo virgin ianus	II
Animalia	Aves	Strigiformes	Strigidae	Ciccaba	huhu la	Ciccaba huhu la	II
An in a lia	Aves	Strigiform es	S trigidae	G buc dium	bras ilianum	G buc dium bras ilianum	II
Aninalia Aninalia	Aves	Strigiform es Strigiform es	Strigidae Strigidae	G buc dium G buc dium	hardyi	G buc dum hardyi G buc dum m hutissimum	II
Animalia	A ves	Strigiform es	Strigidae	G buc dum	m nutissimum mooreorum	G bucdum mooreorum	II
Animalia	Aves	Strigiform es	Strigidae	Lophostrix	cristata	Lophostrix cristata	II
Aninalia	Aves	Strigiform es	Strigidae	0 tus	atricapilla	0 tus atricapilla	II
Animalia	Aves	Strigiform es	Strigidae	0 tus	cho lba	0 tus cho lba	II
Animalia	Aves	Strigiformes	Strigidae	0 tus	sanctaecatarhae	0 tus sanctaecatarnae	II
Animalia	Aves	Strigiformes	Strigidae	0 tus	w atson ii	0 tus watson ii	II
Aninalia	Aves	Strigiformes	Strigidae	Pseudoscops	c am ator	P seudoscops c lam ator	II
Animalia	Aves	Strigiformes	Strigidae	Pu satrix	koen iswa biana	Pu satrix koen iswa biana	II
Animalia	Aves	Strigiformes	S trigidae	Pu katrix	perspic illata	Pu satrix perspic illata	II
Animalia	Aves	Strigiformes	Strigidae	Strix	hy bph ila	S trix hybph ila	II
Animalia	Aves	Strigiformes	S trigidae	Strix	v irgata	S trix virgata	II
Animalia	Aves	Strigiformes	Tyton idae	Tyto	aba	Tyto aba	II
Animalia	Aves	Tinam iformes	Tinam idae	Thamus	so litarius	Tinam us solitarius	I
Animalia	Reptilia	C rocody lia	A lligatoridae	Caman	crocodilus	Cain an crocodilus	II
Aninalia	Reptilia	C rocody lia	A lligatoridae	Camian	atirostris .	Cain an latirostris	I/II
Aninalia	Reptilia	C rocody lia	A lligatoridae	Caman	yacare	Caim an yacare	II
Animalia	Reptilia	Crocody lia	A lligatoridae	M e lanosuchus	niger	M e lanosuchus niger	I/II
An in a lia	Reptilia	C rocody lia	A lligatoridae	Paleosuchus	pa þebrosus	Paleosuchus palpebrosus	II
Aninalia Aninalia	Reptilia Reptilia	Crocodylia Sauria	A Iligatoridae Iguan idae	Paleosuchus Iguana	trigonatus	Paleosuchus trigonatus	II
Aninalia	Reptila	Sauria	Te idae	Crocodilurus	iguana am azon icus	Iguana iguana Crocodilurus am azonicus	II
Animalia	Reptilia	Sauria	Te idae	Dracaena	gu ianens is	D racaena gu ianens is	II
Animalia	Reptilia	Sauria	Te idae	Dracaena	paraguayensis	D racaena paraguayens is	II
Animalia	Reptilia	Sauria	Te iidae	Tupinambis	cerradensis	Tup nam bis cerradensis	II
Animalia	Reptilia	Sauria	Te iidae	Tupinambis	duseni	Tupinam bis dusen i	İİ
Animalia	Reptilia	Sauria	Te iidae	Tupinambis	bngilneus	Tupinam bis bngilineus	ĪĪ
Animalia	Reptilia	Sauria	Te iidae	Tupinambis	merianae	Tupinam bis m erianae	II
Animalia	Reptilia	Sauria	Te iidae	Tupinambis	palustris	Tup nam bis palustris	II
Animalia	Reptilia	Sauria	Te iidae	Tupinambis	quadrilineatus	Tup nam bis quadriline atus	II
Animalia	Reptilia	Sauria	Te iidae	Tupinambis	rufescens	Tup nambis rufescens	II
Aninalia	Reptilia	Sauria	Te iidae	Tupinambis	tegu ix in	Tupinam bis teguixin	II
Anmalia	Reptilia	Serpentes	B o idae	Boa	constrictor	Boa constrictor	II
Anmialia	Reptilia	Serpentes	B o idae	Corallus	bates ii	Corallus bates ii	II
Aninalia	Reptilia	Serpentes	B o idae	Corallus	can hus	Cora lus can nus	II
Anmialia	Reptilia	Serpentes	B o idae	Coralus	cropan ii	Cora lus cropan ii	II
An in a lia	Reptilia	Serpentes	Boidae	Corallus	hortu anus	Corallus hortu lanus	II
An in a lia	Reptilia	Serpentes	Boidae	Epicrates	assisi	Epicrates assisi	II
An in a lia	Reptilia Pontilia	Serpentes	Boidae	Epicrates	cenchria	Epicrates cenchria	II
An in a lia	Reptilia Reptilia	Serpentes	Boidae Boidae	Epicrates Eunectes	deschauenseei	Epicrates crassus Eunectes deschauenseei	II
Aninalia Aninalia	Reptilia Reptilia	Serpentes Serpentes	Boidae	Eunectes	deschauenseei murhus	Eunectes murhus	II
Aninalia	Reptilia	Serpentes	B o idae	Eunectes	notaeus	Eunectes notaeus	II
Aninalia	Reptilia	Serpentes	Colubridae	C le lia	c le lia	C e la c e la	II
Aninalia	Reptilia	Serpentes	Colubridae	C vc lagras	gigas	Cyc lagras gigas	II
Aninalia	Reptila	Serpentes	Trop doph idae	Trachyboa	gu aris	Trachyboa gu aris	II
Aninalia	Reptilia	Serpentes	Trop doph iidae	Tropidoph is	pauc isquam is	Trop doph is pauc isquam is	II
Aninalia	Reptilia	Serpentes	Trop doph idae	Tropidoph is	taczanowsky i	Tropidoph is taczanowsky i	II
Aninalia	Reptilia	Serpentes	V peridae	Crotalis	durissus	Crotalus durissus	III
Animalia	Reptilia	Testudines	Che bn idae	Caretta	caretta	Caretta caretta	I
Animalia	Reptilia	Testudines	Che bn iidae	Che bn ia	m ydas	Che bn ia m ydas	I
	Reptilia	Testudines	Che bn iidae	Eretmochelys	m bricata	Eretmochelys in bricata	I
Animalia	I Optila	10000001100					
Animalia Animalia	Reptilia	Testudines	Che bn iidae	Lepidoche lys	o livacea	Lepidoche lys o livacea	I
Animalia			Chebnidae Demochelyidae Podocnemididae	Lepidoche lys Dermoche lys Peltocephalus	olivacea coriacea dum erilianus	Lepidoche lys o livacea Derm oche lys coriacea Peltocepha lus dum erilianus	I I II

Table A3 List of CITES registered animals in Brazil (continued, 8/20)

Ann et la Regitta (studies) (studies	A n in a lia	D antilin	Tootudin	Dodoono 111-	Dadaans :- :-	o with root	Dadaanam is amatta a a anti-ti-	11
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Ann ais Reptile Festudenes Podocenem title Podocenem un un fille Podocenem un fill II Ann ais Reptile Testudenes Festudiniste Ohe bond de carbonar et II II Ann ais Reptile Testudenes Festudiniste Ohe bond de destoublem Che bond de carbonar et II II Ann ais Reptile Testudiniste Festudiniste Ohe bond de destoublem Che bond de destoublem II II Ann ais Reptile II Ann ais Reptile II II Ann ais Reptile II Ann ais Reptile II II Ann ais Reptile II II Ann ais Reptile II II II II II II II II II II II II II								
An na la Reptila l'estudines l'estudinites (he broot la carbonaria II An na la Anghès Anura Aronobottes An na la Anghès Anura Aronobottes An na la Anghès Anura Anna Anura Aronobottes An na la Anghès Anura Anna Anur								
An e als Mary has Arrura Arron bettelles Abbettes benorial Albebtes hodis Abbettes hodis An e also Anna Anna Arrura Arron bettelles Abbettes benofis Anna Anna Anna Anna Anna Anna Anna Ann								
Am a is Amph bis Anura Ondrobattides Abbates nodi Abbates nodi Anna Amph bis Anura Ondrobattides Ade photobates castemectuse (Amph bis Anura Ondrobattides Ade photobates apactimonius (Ade ph	Animalia	Reptilia	Testudines	Testud in idae	Che bno idis	denticu lata	Che bno id is denticu lata	II
Ann eile Amph bis Annura Oendrobattisse Ade photoates gebenondus Ade photoates gebonondus Amerikanis Annura Oendrobattisse Ade photoates gebonondus Ade photoates gebonondus Annura Oendrobattisse Amerikanis Annura Oendrobattisse Amerikanis Annura Oendrobattisse Amerikanis Annura Oendrobattisse Amerikanis Annura Oendrobattisse Amerikanis Annura Oendrobattisse Amerikanis Annura Oendrobattisse Amerikanis Annura Oendrobattisse Amerikanis Annura Oendrobattisse Amerikanis Annura Oendrobattisse Amerikanis Annura Oendrobattisse Amerikanis Annura Oendrobattisse Amerikanis Annura Oendrobattisse Amerikanis Annura Oendrobattisse Annura Oendrobattisse Annura Oendrobattisse Annura Oendrobattisse Oendrobattisse Annura Oendrobattisse Oendrobattisse Annura Oendrobattisse Oendrob								
Am na is Am ph bs Amura Dendrobatistica Ade photostes gale tomotus II Am na is Am ph bs Amura Dendrobatistica Am energa process. Am photostes gale tomotus II Am na is Am ph bs Amura Dendrobatistica Am energa process. Am en								
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An in a lia An tho zoa Sc eractin a Caryophylliidae Lophe lia pertusa Lophe lia pertusa II	Animalia	Anthozoa	Sceractina		Desmophyllum	dianthus	Desmophyllum danthus	
	Anmalia	Anthozoa	Sceractinia	Caryophy llidae	Lophe lia	pertusa	Lophe la pertusa	II

Table A3 List of CITES registered animals in Brazil (continued, 9/20)

Anmalia	Anthozoa	Sc eractinia	Caryophy llidae	M onohedotrochu	canito lii	M onohedotrochus capitolii	II
Animalia	Anthozoa	Sc bractina	Caryophy llidae	Paracyathus	pu bhe lus	Paracyathus pulche lus	II
Animalia	Anthozoa	Sceractina	Caryophy llidae	Phace boyathus	fbs	Phace boyathus fbs	II
Animalia	Anthozoa	Sceractinia	Caryophy Ilidae	Phyllangia	am ericana	Phyllangia am ericana	II
Anmalia	Anthozoa	Sceractina	C aryophy llidae	Pourtabsm ilia	conferta	Pourtabsm ilia conferta	II
Aninalia	Anthozoa	Sc eractinia	Caryophy llidae	P rem ocyathus	cornuform is	Premocyathus comuform is	II
Animalia Animalia	Anthozoa Anthozoa	Sceractina Sceractina	Caryophy llidae Caryophy llidae	Rhizosmilia Solenosmilia	m acu lata variab ilis	Rhizosmilia maculata Solenosmilia variabilis	II II
Aninalia	Anthozoa	Sceractina	Caryophy llidae	S tephanocyathus		S tephanocyathus diadem a	II
Animalia	Anthozoa	Sceractina	Caryophy llidae	S tephanocyathus		S tephanocyathus nobilis	II
Animalia	Anthozoa	Scleractinia	C aryophy lliidae	S tephanocyathus		S tephanocyathus paliferus	II
Animalia	Anthozoa	Scleractinia	C aryoph y lliidae	Tethocyathus	cylindraceus	Tethocyathus cylindraceus	II
Animalia	Anthozoa	Scleractinia	C aryoph y lliidae	Trochocyathus	abore li	Trochocyathus labore li	II
Aninalia	Anthozoa	Sceractinia	C aryophy lliidae	Trochocyathus	raw son ii	Trochocyathus rawson ii	II
Anmalia	Anthozoa	Sceractinia	Dendrophy llidae	Balanophyllia	dneta	Balanophy lla dine ta	II
Aninalia Aninalia	Anthozoa Anthozoa	Sc eracth a	D endrophy llidae D endrophy llidae	C ladopsam m ia Dendrophyllia	m anue ensis alternata	C ladopsam m ia m anue lens is D endrophy llia a lternata	II II
Aninalia	Anthozoa	Sc bractina	D endrophy llidae	Eguch ipsam m ia	gaditana	Eguch psamm ia gaditana	II
Animalia	Anthozoa	Sceractina	Dendrophy llidae	Enalbpsamm ia	rostrata	Enalbpsamm a rostrata	II
Animalia	Anthozoa	Schractinia	D endrophy llidae	Rhizopsammia	goesi	Rhizopsam m ia goesi	II
Animalia	Anthozoa	Sceractinia	D endrophy lliidae	Tubastraea	cocc nea	Tubastraea coccinea	II
Animalia	Anthozoa	Sceractinia	D endrophy llidae	Tubastraea	tagusens is	Tubastraea tagusensis	II
Aninalia	Anthozoa	S c b ractin ia	Faviidae	Favia	favus	Favia favus	II
Animalia Animalia	Anthozoa	Sceractinia	Faviidae	Favia	fragum	Favia fragum	II II
Aninalia Aninalia	Anthozoa Anthozoa	Sc eracth a	Faviidae Faviidae	Favia Favia	gravida eptophylla	Favia gravida Favia eptophylla	II
Aninala	Anthozoa	Sc eractina	Favidae	M ontastrea	cavernosa	M ontastrea cavernosa	II
Animalia	Anthozoa	Sceractina	F labe Ilidae	F labe llum	apertum	F labe llum apertum	II
Animalia	Anthozoa	Sceractinia	F labe Ilidae	Javan ia	cailleti	Javan a ca illeti	II
Animalia	Anthozoa	Scleractinia	F labe Ilidae	Placotrochides	frustum	Placotrochides frustum	II
Animalia	Anthozoa	Scleractinia	F labe Ilidae	Polymyces	fragilis	Polym yces fragilis	II
Aninalia 	Anthozoa	Schractinia	Fungiacyath idae	Fungiacyathus	crispus	Fungiacyathus crispus	II
Aninalia Aninalia	Anthozoa	Sc eractinia	Fung ac yath idae Guyn idae	Fungiacyathus	symmetricus fissilis	Fungiacyathus symmetricus	II II
Aninalia	Anthozoa Anthozoa	Sc eracth a	Guyn idae	S ch zocyathus S tenocyathus	verm iform is	Sch zocyathus fissilis Stenocyathus verm iform is	II
Aninalia	Anthozoa	Sc bractina	M eandriniidae	M eandrina	brasiliensis	M eandrina brasiliensis	II
Animalia	Anthozoa	Sceractina	M eandrin iidae	M eandrina	m aeandrites	M eandrina m aeandrites	II
Aninalia	Anthozoa	Schractinia	Mussidae	Mussismilia	braz iliens is	Mussismilia braziliensis	II
Animalia	Anthozoa	Sceractinia	M ussidae	Mussismilia	harttii	Mussism ilia harttii	II
Animalia	Anthozoa	Sceractinia	M ussidae	Mussism ilia	h ispida	Mussismiliah ispida	II
Aninalia	Anthozoa	Sceractinia	Mussidae	Scolym ia	cubensis	Scolym a cubensis	II
Aninalia	Anthozoa	Sc bractinia	M ussidae	Scolymia	wellsii	Scolymia wellsii	II II
Aninalia Aninalia	Anthozoa Anthozoa	Sceractina Sceractina	0 cu lin idae 0 cu lin idae	Bathelia Madrepora	candida caro lina	Bathe lia candida M adrepora caro lina	II
Aninala	Anthozoa	Sceractina	0 cu lin idae	M adrepora	ocu ata	M adrepora ocu ata	II
Animalia	Anthozoa	Sceractina	0 cu lin idae	S ch izocu lina	fiss para	S chizocu lina fissipara	II
Anmalia	Anthozoa	Sceractinia	Pocilbporidae	M adrac is	asperu la	M adrac is asperu la	II
Animalia	Anthozoa	Sceractinia	Pocilbporidae	M adrac is	brueggem ann i	M adrac is brueggem ann i	II
Animalia	Anthozoa	Schracthia	Poc ilbporidae	M adrac is	decactis	M adrac is decactis	II
Aninalia	Anthozoa	Scleractinia	Pocilbporidae	M adrac is	fragilis	M adrac is fragilis	II
An in a lia	Anthozoa	Sc bractinia	Pocilbporidae	M adrac is	m yriaster	Madracis myriaster	II
Aninalia Aninalia	Anthozoa Anthozoa	Sc eracth ia Sc eracth ia	Pocilbporidae Poritidae	Madracis Porites	pharensis astreoides	M adrac is pharens is Porites astreoides	II II
Aninalia	Anthozoa	S c eractin a	Poritidae	Porites	branneri	Porites branneri	II
Animalia	Anthozoa	Sceractina	Rh izang iidae	Astrangia	rathbuni	A strangia rathbun i	II
Anmalia	Anthozoa	Sceractinia	Rh izang iidae	Astrangia	so litaria	A strangia so litaria	II
Animalia	Anthozoa	Sceractinia	S ide rastre idae	S iderastrea	radians	S ide rastrea radians	II
Animalia	Anthozoa	Sceractinia	S iderastre idae	S ide rastrea	siderea	S ide rastrea s ide rea	II
Animalia	Anthozoa	Sc bractinia	S ide rastre idae	S iderastrea	ste lata	S iderastrea stellata	II
Animalia Animalia	Anthozoa	Sc eractin in	Turbino lidae	De tocyathoides		De tocyathoides stimpsonii	II II
Animalia Animalia	Anthozoa Anthozoa	Sc eractin ia Sc eractin ia	Turbino liidae Turbino liidae	Peponocyathus Sphenotrochus	folliculus auritus	Peponocyathus folliculus Sphenotrochus auritus	II
Aninalia	Hydrozoa	M illeporina	M ileporidae	M illepora	ab com is	M illepora ab icom is	II
Animalia	Hydrozoa	M ileporna	M ileporidae	M ilepora	braz iliens is	M ilepora braziliensis	II
Animalia	Hydrozoa	M ileporna	M ileporidae	M illepora	n itida	M ilepora nitida	II
Aninalia	Hydrozoa	M ileporna	M ilepordae	M illepora	squarrosa	M illepora squarrosa	II
Animalia	Hydrozoa	Stylasterna	S ty lasteridae	Stylaster	duchassa ing ii	S ty aster duchassa ng ii	II
Animalia	Hydrozoa	Stylasterna	S ty lasteridae	S ty laster	roseus	S ty laster roseus	II
P lantae		Caryophyllales	Cactaceae Cactaceae	Arrojadoa	a b if b ra	Arrojadoa a bifbra	II II
P antae P antae		Caryophylales Caryophylales	Cactaceae	A rrojadoa A rrojadoa	bah iens is dinae	A rrojado a bah jensis A rrojado a dinae	II
P antae		Caryophylaes	Cactaceae	A rrojadoa	pen ic illata	A rro jado a pen ic illata	II
P antae		Caryophylaes	Cactaceae	A rrojadoa	rhodantha	A rrojado a rhodantha	II
P lantae		Caryophylales	Cactaceae	Arthrocereus	gazbvii	Arthrocereus glaz bvii	II

Table A3 List of CITES registered animals in Brazil (continued, 10/20)

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P lantae	Caryophyllales	Cactaceae	Arthrocereus	rondon ianus	Arthrocereus rondon ianus	II
P lantae	Caryophylales	Cactaceae	Arthrocereus	spinosissimus	Arthrocereus spinosissimus	II
P lantae	Caryophyllales	Cactaceae	B ras ilice reus	m arkgrafii	Brasilicereus markgrafii	II
P lantae	Caryophyllales	Cactaceae	B ras ilice reus	phaeacanthus	Brasilicereus phaeacanthus	II
P lantae	Caryophyllales	Cactaceae	Cereus	ade In arii	Cereus ade In arii	II
P antae	Caryophyllales	Cactaceae	Cereus	ae th bps	Cereus aeth bps	II
P lantae	Caryophyllales	Cactaceae	Cereus	a bicau lis	Cereus a bicau lis	II
P lantae	Caryophyllales	Cactaceae	Cereus	bicobr	Cereus bico br	II
P lantae	Caryophyllales	Cactaceae	Cereus	fernam bucensis	Cereus fernam bucensis	II
P lantae	Caryophyllales	Cactaceae	Cereus	hexagonus	Cereus hexagonus	II
P antae	Caryophyllales	Cactaceae	Cereus	hibbm ann ianus	Cereushildmannianus	II
P lantae	Caryophyllales	Cactaceae	Cereus	insu laris	Cereus insularis	II
P lan tae	Caryophyllales	Cactaceae	Cereus	jam acaru	Cereus jam acaru	II
P lan tae	Caryophylales	Cactaceae	Cereus	kroen le in ii	Cereus kroen le n ii	II
P lan tae	Caryophyllales	Cactaceae	Cereus	m irabe lla	Cereus mirabella	II
P lan tae	Caryophyllales	Cactaceae	Cereus	rideii	Cereus ridle ii	II
P lan tae	Caryophyllales	Cactaceae	Cereus	saddianus	Cereus saddianus	II
P lan tae	Caryophyllales	Cactaceae	Cereus	spe gazz n ii	Cereus spegazz n ii	II
P lan tae	Caryophyllales	Cactaceae	C pocereus	brade i	C pocereus brade i	II
P lan tae	Caryophylales	Cactaceae	C pocereus	c rass isepa lus	C pocereus crass sepalis	II
P lantae	Caryophyllales	Cactaceae	Cpocereus	lan ifbrus	Cipocereus lan iflorus	II
P lantae	Caryophyllales	Cactaceae	C pocereus	m nensis	C pocereus m nensis	II
P antae	Caryophyllales	Cactaceae	Cipocereus	pus illifb rus	C pocereus pusillifbrus	II
P antae	Caryophyllales	Cactaceae	C le istocactus	baum ann ii	C e isto cac tu s baum ann ii	II
P antae	Caryophyllales	Cactaceae	Cobocephabcer	aureus	Co bocepha b cereus aureus	II
P lantae	Caryophyllales	Cactaceae	Coleocephabcere			II
P lantae	Caryophyllales	Cactaceae	Coleocephabcere	flum inensis	Co bocephabcereus flum inen	II
P lantae	Caryophyllales	Cactaceae	Coleocephabcere	goebe lianus	Co bocephabcereus goebe la	
P lantae	Caryophyllales	Cactaceae	Coleocephabcere		Co bocephabcereus pur cost	II
P lantae	Caryophyllales	Cactaceae	Coleocephabcere		Co bocephabcereus purpureu	II
P lantae	Caryophyllales	Cactaceae	D iscocactus	bah iensis	Discocactus bahiensis	I
P lantae	Caryophyllales	Cactaceae	D iscocactus	ferrico la	D iscocactus ferrico la	I
P lantae	Caryophyllales	Cactaceae	D iscocactus	heptacanthus	D iscocactus heptacanthus	I
P antae	Caryophyllales	Cactaceae	D iscocactus	horstii	D iscocactus horstii	I
P lantae	Caryophyllales	Cactaceae	D iscocactus	placentiform is	Discocactus placentiform is	I
P lantae	Caryophylales	Cactaceae	D iscocactus	pseudo insign is	D iscocactus pseudo insign is	I
P lantae	Caryophyllales	Cactaceae	D iscocactus	zehntneri	D iscocactus zehntneri	I
P antae	Caryophyllales	Cactaceae	D isocactus	am azon icus	D isocactus am azon icus	II
P antae	Caryophyllales	Cactaceae	Echinopsis	bras iliens is	Ech nops is bras iliens is	II
P antae	Caryophylales	Cactaceae	Echnopsis	cabch bra	Ech nops is cabch bra	II
P antae	Caryophyllales	Cactaceae	Ech nops is	eyriesii	Ech nopsis eyriesii	II
P lantae	Caryophylales	Cactaceae	Echnopsis	oxygona	Ech nops is oxygona	II
P antae	Caryophyllales	Cactaceae	Echinopsis	rhodotricha	Ech nops is rhodotricha	II
P antae	Caryophylales	Cactaceae	Ep phy llum	phyllanthus	Epiphyllum phyllanthus	II
P antae	Caryophyllales	Cactaceae	Espostoopsis	dybow sk ii	Espostoops is dybow skii	II
P antae	Caryophylabs	Cactaceae	Fache iroa	cephaliom e lana	Fache iroa cepha libm e lana	II
P lantae	Caryophyllales	Cactaceae	Fache iroa	squamosa	Fache iroa squam osa	II
P lantae	Caryophylales	Cactaceae	Fache iroa	u le i	Fache roa u e i	II
P lantae	Caryophyllales	Cactaceae	Frailea	buenekeri	Frailea buenekeri	II
P lantae	Caryophylales	Cactaceae	Frailea	bu n ng iana	Frailea bu in ing iana	II
P lantae	Caryophyllales	Cactaceae	Frailea	castanea	Frailea castanea	II
P lantae	Caryophylabs	Cactaceae	Frailea	cataphracta	Frailea cataphracta	II
P antae	Caryophylales	Cactaceae	Frailea	curvispina	Frailea curvispina	II
P lantae	Caryophylabs	Cactaceae	Frailea	grac illin a	Fra iba grac illin a	II
P antae	Caryophylabs	Cactaceae	Frailea	m am m ife ra	Fraileamammifera	II
P lantae	Caryophylaes	Cactaceae	Frailea	perum bilicata	Frailea perum bilicata	II
P antae	Caryophylales	Cactaceae	Frailea	phaeodisca	Frailea phaeodisca	II
P lantae	Caryophylaes	Cactaceae	Frailea	pum ila	Frailea pum ila	II
P antae	Caryophylaes	Cactaceae	Frailea	pygm aea	Frailea pygm aea	II
P lantae	Caryophylaes	Cactaceae	G ym nocalyc ium	an is its ii	Gym nocalycium anisitsii	II
P antae	Caryophylales	Cactaceae	G ym nocalyc ium	buenekeri	Gymnocalycium buenekeri	II
P lantae	Caryophylales	Cactaceae	G ym nocalyc ium	denudatum	Gymnocalycium denudatum	II
P antae	Caryophylaes	Cactaceae	G ym nocalyc ium	horstii	Gym nocalycium horstii	II
P lantae	Caryophylaes	Cactaceae	G ym nocalyc ium	m arsoneri	Gym nocalycium marsoneri	II
P lantae	Caryophylaes	Cactaceae	G ym nocalyc ium	uruguayense	Gym nocalycium uruguayense	II
P lantae	Caryophylaes	Cactaceae	Harrisia	adscendens	Harris a adscendens	II
P lantae	Caryophylaes	Cactaceae	Harrisia	ba lan sae	Harris a balansae	II
P lantae	Caryophylaes	Cactaceae	Hatiora	epiphylbides	Hatiora epiphylloides	II
P lantae	Caryophylaes	Cactaceae	Hatiora	gaertneri	Hatiora gaertneri	II
	Caryophylaes	Cactaceae	Hatbra	herm in iae	Hatiora herm in ae	II
Plantae Plantae					Hatipra rosea	II
P lantae	Caryophyllales	Cactaceae	Hatiora	rosea		II
P lantae	Caryophyllales	Cactaceae	Hatiora	salicom io ides	Hatiora salicom io ides	
P lantae	Caryophyllales	Cactaceae	Leocereus	bah iensis	Leocereus bah iensis	<u>II</u>
P lantae	Caryophy la bs	Cactaceae	Lepism ium	cruciforme	Lepismium cruciforme	<u>II</u>
P lantae	Caryophy la les	Cactaceae	Lepism ium	hou le tianum	Lepism ium houlletianum	<u>II</u>
P lantae	Caryophyllales	Cactaceae	Lepism ium	lum brico ides	Lepismium lumbricoides	II
P antae	Caryophyllales	Cactaceae	Lepism ium	warm ingianum	Lepism um warm ngianum	II
	It' aryonhy lh h c	Cactaceae	Mahuenia	patagon ica	M a huen ia patagon ica	II
P lantae	Caryophyllales					
P antae P antae P antae	Caryophylaes Caryophylaes Caryophylaes	Cactaceae Cactaceae	M e bcactus M e bcactus	abicephalus azureus	M e bcactus a bicepha lus M e bcactus azureus	II II

Table A3 List of CITES registered animals in Brazil (continued, 11/20)

P lantae	Caryophyllales	Cactaceae	M e bcactus	bah iensis	M e b cac tu s bah ien s is	II
P lantae	Caryophylales	Cactaceae	M e bcactus	conc innus	M e bcactus concinnus	II
P lantae	Caryophylales	Cactaceae	M e bcactus	cono ideus	M e bcactus cono ideus	I
P lantae	Caryophylales	Cactaceae	M e bcactus	de nacanthus	M e bcactus de nacanthus	I
P lantae	Caryophyllales	Cactaceae	M e bcactus	emestii	M e bcactus emestii	II
P lantae	Caryophylales	Cactaceae	M e bcactus	estevesii		II
P lantae	Caryophylales	Cactaceae	M e bcactus	gaucescens		Ī
P lantae	Caryophyllales	Cactaceae	M e boactus	horridus		II
P antae	Caryophylales	Cactaceae	M e bcactus	lanssens lanus		II
P lantae	Caryophyllales	Cactaceae	M e bcactus	levitestatus		II
P antae	Caryophylales	Cactaceae	M e bcactus	neryi		II
P lantae	Caryophyllales	Cactaceae	M e bcactus	oreas	M e bcactus oreas	II
P lantae	Caryophylales	Cactaceae	M e bcactus	pachyacanthus	M e bcactus pachyacanthus	II
P lantae	Caryophylales	Cactaceae	M e bcactus	pauc ispinus	M e b cactus pauc ispinus	I
P antae	Carvophylales	Cactaceae	M e bcactus	sa vado rensis	M e b cac tu s sa vado rensis	II
P antae	Caryophylales	Cactaceae	M e bcactus	sm ith ii		II
P antae	Caryophylales	Cactaceae	M e bcactus	v io laceus		II
P lantae	Caryophylales	Cactaceae	M e boactus	zehntneri		II
P lantae	Caryophyllales	Cactaceae	M icranthocereus	abicephalus		II
				_		II
P lantae	Caryophylales	Cactaceae	M icranthocereus			
P lantae	Caryophyllales	Cactaceae	M cranthocereus		Micranthocereus dolichospen	
P lantae	Caryophyllales	Cactaceae	M cranthocereus	estevesii	M cranthocereus esteves ii	II
P lantae	Caryophyllales	Cactaceae	Micranthocereus	flavifbrus		II
P lantae	Caryophyllales	Cactaceae	M cranthocereus	po lyanthus	Micranthocereus polyanthus	II
P lantae	Caryophyllales	Cactaceae	M icranthocereus	purpureus	M cranthocereus purpureus	II
P lantae	Caryophylales	Cactaceae	M cranthocereus			II
P lantae	Caryophylales	Cactaceae	M cranthocereus			II
P antae	Caryophylabs	Cactaceae	0 puntia	bras iliens is		II
P antae	Caryophylales	Cactaceae	0 puntia	estevesii		II
P lantae	Caryophylaes	Cactaceae	0 punta			II
				nam oena		
P lantae	Caryophyllales	Cactaceae	0 puntia	m onacantha		II
P lantae	Caryophyllales	Cactaceae	0 puntia	pa lm ado ra	0 puntia palm adora	II
P antae	Caryophyllales	Cactaceae	0 puntia	qu ipa		II
P lantae	Caryophylales	Cactaceae	0 puntia	sahn iana		II
P lantae	Caryophyllales	Cactaceae	0 puntia	saxatilis	0 puntia saxatilis	II
P lantae	Caryophylales	Cactaceae	0 puntia	v ir id irubra	0 puntia viridirubra	II
P lantae	Caryophyllales	Cactaceae	0 puntia	werneri		II
P antae	Caryophyllales	Cactaceae	Parodia	alacriportana	Parodia alacriportana	II
P lantae	Caryophylales	Cactaceae	Parodia	arnostiana		II
P lantae	Caryophyllales	Cactaceae	Parodia	bu n ngii		II
					ŭ	II
P lantae	Caryophylales	Cactaceae	Parodia	caram be iens is		
P lantae	Caryophyllales	Cactaceae	Parodia	conc inna		II
P lantae	Caryophyllales	Cactaceae	Parodia	c rass ig bba		II
P lantae	Caryophyllales	Cactaceae	Parodia	curvispina		II
P lantae	Caryophylales	Cactaceae	Parodia	ernacea		II
P lantae	Caryophyllales	Cactaceae	Parodia	fusca	Parodia fusca	II
P lantae	Caryophyllales	Cactaceae	Parodia	hase be rg ii	Parodia hase bergii	II
P lantae	Caryophylales	Cactaceae	Parodia	herteri	Parodia herteri	II
P lantae	Caryophyllales	Cactaceae	Parodia	horstii	Parodia horstii	II
P lantae	Caryophyllales	Cactaceae	Parodia	langsdorfii		II
P lan tae	Caryophylales	Cactaceae	Parodia	len inghaus ii		II
P lantae	Caryophylabs	Cactaceae	Parodia	linkii		II
P antae			Parodia	m agn ifica		II
	Caryophyllales	Cactaceae			ū	
P lantae	Caryophylaes	Cactaceae	Parodia	m am m u bsa		<u>II</u>
P lantae	Caryophyllales	Cactaceae	Parodia	m eonacantha		II
P lantae	Caryophyllales	Cactaceae	Parodia	m uricata		II
P lantae	Caryophyllales	Cactaceae	Parodia	neohorstii		II
P lantae	Caryophyllales	Cactaceae	Parodia	nothom huscula		II
P lantae	Caryophyllales	Cactaceae	Parodia	otton is	Parodia otton is	II
P lantae	Caryophyllales	Cactaceae	Parodia	oxycostata		II
P lantae	Caryophylales	Cactaceae	Parodia	pe m u tata	Parodia permutata	II
P lantae	Caryophylales	Cactaceae	Parodia	rechensis		II
P antae	Caryophylales	Cactaceae	Parodia	rudbuenekeri		II
P antae	Caryophyllales	Cactaceae	Parodia	rutilans		II
P antae	Caryophylales	Cactaceae	Parodia	schum ann iana		II
	Caryophylales		Paroda	SCODA		II
P lantae		Cactaceae				
P lantae	Caryophylales	Cactaceae	Parodia	se lbw ii		II
P antae	Caryophyllales	Cactaceae	Parodia	stockingeri	Ü	II
		Cactaceae	Parodia	tenu cy lindrica	- ·	II
P lantae	Caryophyllales			W OKOO II	Parodia warasii	II
P lantae	Caryophy la les Caryophy la les	Cactaceae	Parodia	warasii		
	Caryophyllales		Parodia Parodia	werneri		II
P lantae	Caryophy la les Caryophy la les	Cactaceae			Paroda werner i	II II
P lantae P lantae P lantae	Caryophy la bs Caryophy la bs Caryophy la bs Caryophy la bs	Cactaceae Cactaceae	Parodia	werneri	Paroda werneri Pibsocereus a bisum m us	
P antae P antae P antae P antae P antae	Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs	Cactaceae Cactaceae Cactaceae Cactaceae	Parodia Pibsocereus Pibsocereus	werneri abisummus arrabidae	Paroda werneri Pibsocereus a bisum m us Pibsocereus arrabidae	II II
P Intae P Intae P Intae P Intae P Intae P Intae P Intae P Intae	Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs	Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae	Parodia Pibsocereus Pibsocereus Pibsocereus	wemeri abisummus arrabidae aureispinus	Paroda werneri Pibsocereus absummus Pibsocereus arrabidae Pibsocereus aure spinus	II II II
P antae P antae P antae P antae P antae P antae P antae P antae P antae	Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs	Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae	P arodia P ibsocereus P ibsocereus P ibsocereus P ibsocereus P ibsocereus	werneri abisummus arrabidae aureisphus aurisetus	Paroda werneri Pibsocereus a bisum m us Pibsocereus arrabidae Pibsocereus aure ispinus Pibsocereus aurisetus	II II II
P Intae P Intae P Intae P Intae P Intae P Intae P Intae P Intae P Intae P Intae P Intae	Caryophy lbbs Caryophy lbbs Caryophy lbbs Caryophy lbbs Caryophy lbbs Caryophy lbbs Caryophy lbbs Caryophy lbbs Caryophy lbbs Caryophy lbbs Caryophy lbbs	Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae	Parodia Pibsocereus Pibsocereus Pibsocereus Pibsocereus Pibsocereus Pibsocereus	werneri abisummus arrabidae aure ispinus aurisetus azu ensis	Paroda werneri Pibsocereus a bisum m us Pibsocereus arrabidae Pibsocereus aure ispinus Pibsocereus aure ispinus Pibsocereus aurusetus Pibsocereus azu bns is	II II II II
P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae	Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs	Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae	Parodia Pibsocereus Pibsocereus Pibsocereus Pibsocereus Pibsocereus Pibsocereus Pibsocereus Pibsocereus	werneri abisum m us arrabidae aure ispinus aurisetus azu ens is brasilens is	Paroda werneri Pibsocereus arbidae Pibsocereus arrabidae Pibsocereus aure spinus Pibsocereus aure setus Pibsocereus azu bensis Pibsocereus prasiliensis	II II II II II
P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae	Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs	Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae	Parodia Pibsocereus Pibsocereus Pibsocereus Pibsocereus Pibsocereus Pibsocereus Pibsocereus Pibsocereus	wemeri abisummus arrabidae aure spinus aurisetus azu ensis brasilensis catingdo la	Paroda werneri P ibsocereus a bisum m us P ibsocereus arrabidae P ibsocereus aure ispinus P ibsocereus aure ispinus P ibsocereus aurisetus P ibsocereus azu bnsis P ibsocereus bras illens is P ibsocereus cating to la	II II II II II II
P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae	Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs	Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae	Parodia Pibsocereus Pibsocereus Pibsocereus Pibsocereus Pibsocereus Pibsocereus Pibsocereus Pibsocereus	werneri abisum m us arrabidae aure ispinus aurisetus azu ens is brasilens is	Paroda werneri Pibsocereus a bisum mus Pibsocereus arrabidae Pibsocereus aure ispinus Pibsocereus aure ispinus Pibsocereus auriseitus Pibsocereus azu brasi Pibsocereus bras illensis Pibsocereus catingio a Pibsocereus chrysoste b	II II II II II

Table A3 List of CITES registered animals in Brazil (continued, 12/20)

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P lantae	Caryophylales	Cactaceae	P ibsocereus	diersianus	Pibsocereus diersianus	II
P antae	Caryophylales	Cactaceae	P ibsocereus	flav jou ly inatus	P ibsocereus flav pulvinatus	II
P lantae	Caryophyllales	Cactaceae	P ibsocereus	flexbilispinus	Pibsocereus flex bilispinus	II
P lantae	Caryophylales	Cactaceae	P ibsocereus	fbccosus	P ibsocereus fbccosus	II
P lantae	Caryophyllales	Cactaceae	P ibsocereus	fu k ilanatus		II
P antae	Caryophylales	Cactaceae	Pibsocereus	glaucochrous		II
P an tae	Caryophylales	Cactaceae	P ibsocereus	goune le i		II
P antae	Caryophylales	Cactaceae	P ibsocereus	m achrisii		II
P lantae	Caryophylales	Cactaceae	P ibsocereus	m agn ificus	ū	II
P lantae	Caryophyllales	Cactaceae	Pibsocereus	m u lticostatus		II
P antae	Caryophyllales	Cactaceae	P ibsocereus	o ligo lepis	ů .	II
P lantae	Caryophylales	Cactaceae	P ibsocereus	pachyc adus	Pibsocereus pachyc adus	II
P lantae	Caryophylales	Cactaceae	P ibsocereus	pentaedrophorus	P ibsocereus pentaedrophoru	II
P lantae	Caryophyllales	Cactaceae	P ibsocereus	piauhyensis	Pibsocereus piauh yens is	II
P lantae	Caryophylales	Cactaceae	P ibsocereus	subs in ilis		II
P antae	Caryophylales	Cactaceae	Pibsocereus	tubercu latus		Ī
P antae	Caryophylales	Cactaceae	P ibsocereus	u e i		ĬĬ
P antae	Caryophylaes	Cactaceae	P ibsocereus	vilaboensis		İİ
P antae			Praecereus	euch brus		II
	Caryophylales	Cactaceae				
P lantae	Caryophyllales	Cactaceae	Pseudoacanthoce	bras iliens is		II
P lantae	Caryophyllales	Cactaceae	P seudorh ipsalis	ram u bsa		II
P lantae	Caryophylales	Cactaceae	R h ipsa lis	bacc ife ra		II
P lantae	Caryophylales	Cactaceae	R h ipsa lis	burche Ilii	Rh psalis burche llii	II
P lantae	Caryophylales	Cactaceae	Rhipsalis	campos-portoana	Rhipsalis campos-portoana	II
P lantae	Caryophyllales	Cactaceae	R h ipsa lis	cereo ides		II
P antae	Caryophylales	Cactaceae	Rh ipsalis	cereuscu b		II
P lantae	Caryophylales	Cactaceae	Rh ipsalis	c avata		II
	Carvophylales		Rh ipsalis	crispata		II
P lantae		Cactaceae				
P lantae	Caryophylales	Cactaceae	Rh ipsalis	dissim ilis		II
P lantae	Caryophyllales	Cactaceae	Rhipsalis	e liptica		II
P lantae	Caryophyllales	Cactaceae	R h ipsa lis	ewabiana		II
P lantae	Caryophylales	Cactaceae	R h ipsa lis	fbccosa	Rhipsalis floccosa	II
P lantae	Caryophyllales	Cactaceae	Rhipsalis	grand if bra	R h ipsa lis grand if bra	II
P antae	Caryophyllales	Cactaceae	R h ipsa lis	hoe leri	Rh psalis hoelleri	II
P lantae	Caryophyllales	Cactaceae	R h ipsa lis	juengeri	Rhipsalis juengeri	II
P antae	Caryophylales	Cactaceae	Rhipsalis	lindbe rgiana		II
P antae	Caryophyllales	Cactaceae	R h ipsa lis		Rhipsalis mesem bryanthem oid	
P antae	Caryophylales	Cactaceae	Rh ipsalis			II
P lantae	Caryophyllales	Cactaceae	Rhipsalis	neves-arm ondii		II
P lantae	Caryophyllales	Cactaceae	Rhipsalis	ob bnga	·	II
P lantae	Caryophyllales	Cactaceae	Rhipsalis	o liv ife ra		II
P lantae	Caryophyllales	Cactaceae	Rhipsalis	ormindoi		II
P lantae	Caryophylales	Cactaceae	R h ipsa lis	pacheco- eon is	Rh psa lis pacheco- leon is	II
P lantae	Caryophyllales	Cactaceae	Rhipsalis	pachyptera	R h psa lis pachypte ra	II
P lantae	Caryophyllales	Cactaceae	Rhipsalis	paradoxa	R h ipsa lis parado xa	II
P lantae	Caryophyllales	Cactaceae	Rhipsalis	pentaptera		II
P lantae	Caryophylales	Cactaceae	Rhipsalis	pibcarpa		II
P lantae	Caryophylales	Cactaceae	Rhipsalis	pu bhra		II
P antae	Caryophyllales	Cactaceae	Rh ipsalis	puniceodiscus		II
P lantae	Caryophylales	Cactaceae	Rh ipsalis	russe Ilii		II
P lantae	Caryophyllales	Cactaceae	Rhipsalis	su bata		II
P lantae	Caryophyllales	Cactaceae	Rhipsalis	teres		II
P lantae	Caryophyllales	Cactaceae	Rhipsalis	trigona	·	11
P lantae	Caryophylales	Cactaceae	Sch um bergera	kautskyi	Calation has one or beautholous	II
P antae						II
	Caryophyllales	Cactaceae	Schumbergera	m icrosphaerica	Schumbergeram icrosphaeric	II II
P antae	Caryophyllales Caryophyllales				Sch Lm bergera m icrosphaeric Sch Lm bergera opuntibides	II II II
	Caryophyllales	Cactaceae	Schumbergera	m icrosphaerica	Sch Lm bergera m icrosphaeric Sch Lm bergera opuntibides	II II
P lantae	Caryophy la es Caryophy la es Caryophy la es	Cactaceae Cactaceae	Schumbergera Schumbergera	m brosphaerba opuntbides	Schumbergeram crosphaerc Schumbergera opunto des Schumbergera orsschana	II II II
P lantae P lantae P lantae P lantae	Caryophy la es Caryophy la es Caryophy la es Caryophy la es	Cactaceae Cactaceae Cactaceae Cactaceae	Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera	m crosphaerca opunto des orssichiana russe llana	Schum bergera m crosphaerc Schum bergera opuntoides Schum bergera orssich ana Schum bergera russellana	II II II II
P Intae P Intae P Intae P Intae P Intae P Intae	Caryophy la es Caryophy la es Caryophy la es Caryophy la es Caryophy la es Caryophy la es	Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae	Sch Um bergera Sch Um bergera Sch Um bergera Sch Um bergera Sch Um bergera	m crosphaerca opunto des orss ch ana russe llana truncata	Sch um bergera m crosphaeric Sch um bergera opunto des Sch um bergera orssich ana Sch um bergera russe lliana Sch um bergera truncata	II II II II II II II II II
P antae P antae P antae P antae P lantae P lantae P lantae	C aryophy la es C aryophy la es C aryophy la es C aryophy la es C aryophy la es C aryophy la es C aryophy la es C aryophy la es	Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae	Sch Um bergera Sch Um bergera Sch Um bergera Sch Um bergera Sch Um bergera Sch Um bergera Se en icereus	m crosphaerca opunto des orssich ana russe llana truncata setaceus	Schlumbergera microsphaeric Schlumbergera opuntibides Schlumbergera orssichiana Schlumbergera russelliana Schlumbergera truncata Selbinbergera truncata	II II II II II II II II II II II
P antae P antae P antae P antae P antae P antae P antae P antae P antae	Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs	Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae	Sch Lim bergera Sch Lim bergera Sch Lim bergera Sch Lim bergera Sch Lim bergera Sch Lim bergera Se bin bereus Se bin bereus	m crosphaerica opuntibides orssichiana russe lliana truncata setaceus w ittii	Schumbergera m crosphaeric Schumbergera opuntibiles Schumbergera orssich ana Schumbergera russellana Schumbergera truncata Selnicereus setaceus Selnicereus wittii	II II II II II II II II II II II
P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae	Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs	Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae	Sch Lim bergera Sch Lim bergera Sch Lim bergera Sch Lim bergera Sch Lim bergera Sch Lim bergera Sch En bereus Se En bereus Stephanocereus	m brosphaerba opuntbides orssichiana russe llana truncata setaceus w ittii bucoste b	Schumbergera microsphaeric Schumbergera opuntibides Schumbergera orssich inna Schumbergera russellana Schumbergera truncata Se bnicereus setaceus Se en bicreus wittii Stephanocereus bucoste b	
P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae	Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs	Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae	Sch Lim bergera Sch Lim bergera Sch Lim bergera Sch Lim bergera Sch Lim bergera Sch Lim bergera Sch Diereus Se En bereus Stephanocereus Stephanocereus	m icrosphaerica opunto ides orssich ana russe llana truncata se taceus w ittii leucoste le luetze burg ii	Schlumbergera microsphaeric Schlumbergera opuntibides Schlumbergera orssichiana Schlumbergera russelliana Schlumbergera russelliana Schlumbergera truncata Se en bereus setaceus Se en bereus wittii Stephanocereus leucoste le Stephanocereus leutze burgii	
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P antae P antae P bntae P bntae P bntae P bntae P antae	Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs	Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae	Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Dereus Sch Dereus Stephanocereus Tac inga Tac inga	m irosphaeria opunto des orssich inna russe llana truncata setaceus w ittii bucoste b Letze burgii braun ii funalis	Schlumbergera microsphaeric Schlumbergera opuntibides Schlumbergera orssichiana Schlumbergera russellana Schlumbergera russellana Schlumbergera truncata Scelenibergera truncata Selenibereus setaceus Selenibereus wittii Stephanocereus bucostele Stephanocereus letze burgii Tacinga braunii Tacinga funalis	
P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae	Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs	Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae	Sch Limbergera Sch Limbergera Sch Limbergera Sch Limbergera Sch Limbergera Sch Limbergera Sch Limbergera Sch Dereus Se Bribereus Stephanocereus Tac figa Tac figa Turb in barpus	m crosphaerica opunto des orssich iana russe liana truncata setaceus wittii bucoste b Letze burgii braun ii funalis m om bergeri	Schlumbergera microsphaeric Schlumbergera opuntibides Schlumbergera orssichiana Schlumbergera russe llana Schlumbergera russe llana Schlumbergera truncata Se en bereus setaceus Se en bereus wittii Stephanocereus bucoste b Stephanocereus letze burgii Tacinga braunii Tacinga funalis Turbin barpus miom bergeri	
P antae P antae P bntae P bntae P bntae P bntae P antae	Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs	Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae	Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Dereus Sch Dereus Stephanocereus Tac inga Tac inga	m irosphaeria opunto des orssich inna russe llana truncata setaceus w ittii bucoste b Letze burgii braun ii funalis	Schlumbergera microsphaeric Schlumbergera opuntibides Schlumbergera orssichiana Schlumbergera russellana Schlumbergera russellana Schlumbergera truncata Scelenibergera truncata Selenibereus setaceus Selenibereus wittii Stephanocereus bucostele Stephanocereus letze burgii Tacinga braunii Tacinga funalis	
P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae	Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs	Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae	Sch Limbergera Sch Limbergera Sch Limbergera Sch Limbergera Sch Limbergera Sch Limbergera Sch Limbergera Sch Dereus Se Bribereus Stephanocereus Tac figa Tac figa Turb in barpus	m crosphaerica opunto des orssich iana russe liana truncata setaceus wittii bucoste b Letze burgii braun ii funalis m om bergeri	Schlumbergera microsphaeric Schlumbergera opuntibides Schlumbergera orssichiana Schlumbergera russe llana Schlumbergera russe llana Schlumbergera truncata Se en bereus setaceus Se en bereus wittii Stephanocereus bucoste b Stephanocereus letze burgii Tacinga braunii Tacinga funalis Turbin barpus miom bergeri	
P antae P antae	Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs Caryophy labs	Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae	Sch Lum bergera Sch Lum berger	m crosphaerica opunto des orssibiliana truncata setaceus w ittii bucoste b Lietze burgii braun ii funalis m om bergeri bu hingii	Schlumbergera microsphaeric Schlumbergera opuntio des Schlumbergera opuntio des Schlumbergera russe llana Schlumbergera russe llana Schlumbergera truncata Se en bereus setaceus Se en bereus wittil Stephanocereus bucoste b Stephanocereus letze burgii Tacinga braun ii Tacinga funalis Turbin barpus mombergeri Uebe mannia buin ingii Uebe mannia gummifera	
P antae P antae	Caryophy labs Caryophy labs	Cactaceae Cactaceae	Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Encereus Stephanocereus Stephanocereus Tac inga Tac inga Turbin barpus Uebe mann ia Uebe mann ia	m crosphaerba opunto des opunto des orssich ana russe llana truncata setaceus wittii bucoste b letze burgii braun ii funalis mom bergeri bu hingii gumm flera pectinifera	Schlumbergera microsphaeric Schlumbergera opuntibides Schlumbergera orssich iana Schlumbergera russe llana Schlumbergera russe llana Schlumbergera runcata Se en biereus witti Stephanocereus witti Stephanocereus bucoste b Stephanocereus letze burgii Tacinga braunii Tacinga funalis Turbin carpus miom bergeri Uebe mannia gummifera Uebe mannia gummifera	
P antae P antae	Caryophy labs Caryophy labs	Cactaceae Cactaceae	Sch Limbergera Sch Limbergera Sch Limbergera Sch Limbergera Sch Limbergera Sch Limbergera Sch Limbergera Sch Dereus Sch Dereus Stephanocereus Stephanocereus Tac nga Turb n carpus Uebe mann ia Uebe mann ia Uebe mann ia Cyathea	m crosphaerca opunto des opunto des orschiana russe liana truncata se taceus wittii bucoste b Letze burgii braun ii funalis m om bergeri bu hingii gumm fera pectin fera ab idopa bata	Schumbergera microsphaeric Schumbergera opuntibides Schumbergera opuntibides Schumbergera orssichiana Schumbergera russe llana Schumbergera russe llana Schumbergera truncata Se en bereus setaceus Se en bereus setaceus Se en bereus witti Stephanocereus bucoste b Stephanocereus betze burgii Tac inga braunii Tac inga funalis Turbin barpus miom bergeri Uebe manna buringii Uebe manna gumm fiera Uebe manna pectin fiera Cyathea abidopa bata	
P antae P antae	Caryophy labs Caryophy labs	Cactaceae Cyatheaceae Cyatheaceae	Sch Lum bergera Sch Lum berger	m crosphaerca opunto des orsschiana rrusse llana truncata setaceus wittii bucoste b Luetze burgii braun ii funalis m om bergeri bu hingii gumm ifera pectinifera anbidopa bata andina	Schlumbergera microsphaeric Schlumbergera opuntibides Schlumbergera orssichiana Schlumbergera russeillana Schlumbergera russeillana Schlumbergera russeillana Schlumbergera truncata Se en icereus setaceus Se en icereus wittii Stephanocereus leucoste le Stephanocereus leutze burgii Tac inga braunii Tac inga funalis Turbin carpus miom bergeri Uebe lmanna jumm ifiera Uebe lmanna igumm ifiera Uebe lmanna igumm ifiera Uebe lmanna petri ifiera Cyathea ab diopa bata Cyathea andna	
P antae P antae	Caryophy labs Cyatheabs Cyatheabs Cyatheabs Cyatheabs	Cactaceae Cyatheaceae Cyatheaceae Cyatheaceae	Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Encreus Stephanocereus Stephanocereus Tac inga Tac inga Turbin carpus Uebe mann ia Uebe mann ia Uebe mann ia Cyathea Cyathea	m crosphaerba opunto des opunto des orss chiana russe llana truncata setaceus wittii bucoste b letze burgii braun ii funa lis m om bergeri bu hingii gumm flera pectin flera ab dopa bata andina arborea	Schlmbergera microsphaeric Schlmbergera opuntib des Schlmbergera opuntib des Schlmbergera orssich ana Schlmbergera russe llana Schlmbergera russe llana Schlmbergera runcata Se en ibereus setaceus Se en ibereus setaceus Se en ibereus wittii Stephanocereus bucoste b Stephanocereus bucoste b Stephanocereus betze burgii Tac inga faunu ii Tac inga funalis Turbnibarpus mombergeri Uebe mann a bu in ingii Uebe mann a gumm ifera Uebe mann a pumm ifera Uebe mann a pumm ifera Cyathea abidopa bata Cyathea andina Cyathea andina	
P antae P antae	Caryophy labs Cyatheabs Cyatheabs Cyatheabs Cyatheabs Cyatheabs	Cactaceae Cyatheaceae Cyatheaceae Cyatheaceae Cyatheaceae	Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Stephanocereus Tac inga Tac inga Tac inga Turb in barpus Uebe hann in Uebe hann in Uebe hann in Cyathea Cyathea Cyathea Cyathea	m crosphaerca opunto des opunto des orssich lana russe llana truncata setaceus witti bucoste b Lietze burgii braun ii funalis mom bergeri bu in ngii gumm flera pectniflera ab idopa bata andina arborea arbuscu la	Schlumbergera microsphaeric Schlumbergera opuntibides Schlumbergera opuntibides Schlumbergera orssich iana Schlumbergera russe llana Schlumbergera russe llana Schlumbergera truncata Se en biereus wittii Stephanocereus witcii Stephanocereus bucoste b Stephanocereus letze burgii Tacinga braunii Tacinga funalis Turbinicarpus mombergeri Uebe mannia buiningii Uebe mannia gummifera Uebe mannia gummifera Uebe mannia gummifera Uebe mannia gummifera Cyathea andona Cyathea andona Cyathea andorea Cyathea andorea	
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P antae P antae	Caryophy labs Cyaryophy labs Cyaryophy labs Cyatheabs Cyatheabs Cyatheabs Cyatheabs Cyatheabs Cyatheabs Cyatheabs Cyatheabs Cyatheabs Cyatheabs	Cactaceae Cyatheaceae	Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Stephanocereus Stephanocereus Tac inga Tac inga Tac inga Turbn barpus Uebe Mann ia Uebe Mann ia Uebe Mann ia Uebe Mann ia Cyathea Cyathea Cyathea Cyathea Cyathea Cyathea	m crosphaerica opunto des opunto des orssich iana russe liana truncata setaceus wittii bucoste b letze burgii braun ii funalis mom bergeri bu hingii gumm ifera pectnifera ab dopa bata andina arrborea arbuscu la atrov rens axillaris bah ens is	Schlmbergera microsphaeric Schlmbergera opuntibides Schlmbergera opuntibides Schlmbergera orssich iana Schlmbergera russe llana Schlmbergera russe llana Schlmbergera russe llana Schlmbergera runcata Se en bereus setaceus Se en bereus wittii Stephanocereus bucoste b Stephanocereus bucoste b Stephanocereus letze burgii Tac inga braun ii Tac inga funalis Turbin barpus mom bergeri Uebe mann a bu in ingii Uebe mann a gumm ifera Uebe mann a gumm ifera Uebe mann a gumm ifera Uebe mann a gumm ifera Cyathea abidopa bata Cyathea androra Cyathea arborea Cyathea arborea Cyathea arbores Cyathea axillaris Cyathea axillaris Cyathea bah ens is	
P antae P antae	Caryophy labs Cyatheabs Cyatheabs	Cactaceae Cyatheaceae	Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Stephanocereus Stephanocereus Tac hga Tac hga Tac hga Turb in barpus Uebe Im ann in Uebe Im ann in Uebe Im ann in Uebe Im ann in Cyathea Cyathea Cyathea Cyathea Cyathea Cyathea Cyathea Cyathea Cyathea	m crosphaerica opunto des opunto des orscibiana russe liana truncata se taceus wittii bucoste b Letze burgii braun ii funalis m om bergeri bu n'ngii gumm ifera pectnifera ab idopa bata andina arrborea arbuscu k atrovirens axillar's bah ens s com pta	Schlumbergera microsphaeric Schlumbergera opuntibides Schlumbergera opuntibides Schlumbergera orssichiana Schlumbergera russellana Schlumbergera russellana Schlumbergera truncata Se en biereus wittii Stephanocereus wittii Stephanocereus bucoste b Stephanocereus betze burgii Tac inga braunii Tac inga funalis Turbin barpus mombergeri Uebe manna bu in ingii Uebe manna bu in ingii Uebe manna bu mm ifiera Uebe manna pumm ifiera Uebe manna pectri ifiera Cyathea abdopa bata Cyathea arborea Cyathea arborea Cyathea arborea Cyathea arbuscu b Cyathea arbuscu b Cyathea arbuscu b Cyathea arbuscu b Cyathea arbuscu b Cyathea arbuscu b Cyathea arbuscu b Cyathea arbuscu b Cyathea arbuscu b Cyathea bah ensis Cyathea compta	
P antae P antae	Caryophy labs Cyatheabs Cyatheabs	Cactaceae Cyatheaceae	Sch Lum bergera Sch Lum bergera Sch Lum bergera Sch Lum bergera Sch Lum bergera Sch Lum bergera Sch Lum bergera Sch Lum bergera Sch Lum bergera Sch Lum bergera Sch Lum bergera Sch Lum bergera Sch Lum bergera Sch Lum bergera Sch Lum bergera Sch Lum bergera Sch Lum bergera Sch Lum bergera Tac inga Turb in carpus Uebe in ann ia Uebe in ann ia Uebe in ann ia Uebe in ann ia Cyathea Cyathea Cyathea Cyathea Cyathea Cyathea Cyathea Cyathea Cyathea Cyathea Cyathea	m crosphaerica opunto des orsschiana orsschiana truncata setaceus wittii bucoste b Letze burgii braun ii funalis m om bergeri bu hingii gumm fiera pectnifera abidopa bata andina arborea arbuscu la atrovirens axilaris bah ensis com pta cyatheo des	Schlumbergera microsphaeric Schlumbergera opuntibides Schlumbergera opuntibides Schlumbergera orssichiana Schlumbergera russellana Schlumbergera russellana Schlumbergera russellana Schlumbergera truncata Se en bereus setaceus Se en bereus setaceus Se en bereus witti Stephanocereus bucoste b Stephanocereus bucoste b Stephanocereus butze burgii Tac hga braunii Tac hga funalis Turbin barpus mom bergeri Uebe manna buningii Uebe manna buningii Uebe manna buningii Uebe manna pectri fiera Cyathea abidopa bata Cyathea andora Cyathea arborea Cyathea arborea Cyathea arbores Cyathea arborens Cyathea arborens Cyathea arborens Cyathea bah ensis Cyathea compta Cyathea compta Cyathea compta	
P antae P antae	Caryophy labs Cyatheabs Cyatheabs	Cactaceae Cyatheaceae	Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Sch Lm bergera Stephanocereus Stephanocereus Tac hga Tac hga Tac hga Turb in barpus Uebe Im ann in Uebe Im ann in Uebe Im ann in Uebe Im ann in Cyathea Cyathea Cyathea Cyathea Cyathea Cyathea Cyathea Cyathea Cyathea	m crosphaerica opunto des opunto des orscibiana russe liana truncata se taceus wittii bucoste b Letze burgii braun ii funalis m om bergeri bu n'ngii gumm ifera pectnifera ab idopa bata andina arrborea arbuscu k atrovirens axillar's bah ens s com pta	Schlumbergera microsphaeric Schlumbergera opuntibides Schlumbergera opuntibides Schlumbergera orssichiana Schlumbergera russellana Schlumbergera russellana Schlumbergera russellana Schlumbergera truncata Se en bereus setaceus Se en bereus setaceus Se en bereus witti Stephanocereus bucoste b Stephanocereus bucoste b Stephanocereus butze burgii Tac hga braunii Tac hga funalis Turbin barpus mom bergeri Uebe manna buningii Uebe manna buningii Uebe manna buningii Uebe manna pectri fiera Cyathea abidopa bata Cyathea andora Cyathea arborea Cyathea arborea Cyathea arbores Cyathea arborens Cyathea arborens Cyathea arborens Cyathea bah ensis Cyathea compta Cyathea compta Cyathea compta	

Table A3 List of CITES registered animals in Brazil (continued, 13/20)

P lan tae	Cyatheales	Cyatheaceae	Cyathea	dichrom ato epis	C yathea dichrom ato epis	II
P lantae	Cyatheales	Cyatheaceae	Cyathea	feei	Cyathea fee i	II
P lantae	Cyatheales	Cyatheaceae	Cyathea	gardneri	C yathea gardneri	II
P lantae	Cyatheales	Cyatheaceae	Cyathea	g bz iovii	C yathea g az b v ii	II
P lantae	Cyatheales	Cyatheaceae	Cyathea	h irsu ta	C yathea h irsu ta	II
P lantae	Cyatheales	Cyatheaceae	Cyathea	las iosora	Cyathea as bsora	II
P lantae	Cyatheales	Cyatheaceae	Cyathea	m acrocarpa	Cyathea macrocarpa	II
P lantae	Cyatheales	Cyatheaceae	Cyathea	m e lb-baro e to i	C yathea m e lb-baroe to i	II
P lantae	Cyatheales	Cyatheaceae	Cyathea	m exiae	Cyatheamexiae	II
P lantae	Cyatheales	Cyatheaceae	Cyathea	m icrodonta	Cyatheam icrodonta	II
P antae	Cyatheales	Cyatheaceae	Cyathea	m icromera	Cyatheam icromera	II
P antae	Cyatheales	Cyatheaceae	Cyathea	m u Itifbra	Cyatheamultifbra	II
P antae	Cvatheales	Cyatheaceae	Cyathea	phaerata	Cyathea phalerata	II
P lantae	Cyatheales	Cyatheaceae	Cyathea	poeppigii	C yathea poeppigii	II
P lantae	Cyatheales	Cyatheaceae	Cyathea	portoana	Cyathea portoana	II
P lantae	Cyatheales	Cyatheaceae	Cyathea	praec no ta	Cyathea praecincta	ii
P lantae			Cyathea	pubens	C vathea pubens	II
P antae	Cyatheales	Cyathogogo	Cyathea			II
	Cyatheales	Cyatheaceae	_	pungens schenckii	C yathea pungens	II
P lantae	Cyatheales	Cyatheaceae	Cyathea		Cyathea schenckii	
P lantae	Cyatheales	Cyatheaceae	Cyathea	subarborescens	C yathea subarborescens	II
P lantae	Cyatheales	Cyatheaceae	Cyathea	sub nc isa	C yathea subinc isa	II
P lantae	Cyatheales	Cyatheaceae	Cyathea	subm arginalis	Cyathea submarghalis	II
P antae	Cyatheales	Cyatheaceae	Cyathea	sur in am ens is	Cyathea surnamensis	II
P lantae	Cyatheales	Cyatheaceae	Cyathea	thysano epis	Cyathea thysano lepis	II
P lantae	Cyatheales	Cyatheaceae	Cyathea	tra illii	Cyathea traillii	II
P lantae	Cyatheales	Cyatheaceae	Cyathea	trindadensis	Cyathea trindadensis	II
P lantae	Cyatheales	Cyatheaceae	Cyathea	ulei	C yathea u le i	II
P antae	Cyatheales	Cyatheaceae	Cyathea	vilbsa	Cyathea villosa	II
P antae	Dicksoniales	Dickson aceae	Dicksonia	se Ibw iana	Dickson ia se Ibwiana	II
P antae	Euphorbiales	Euphorbiaceae	Euphorbia	apparic iana	Euphorbia appariciana	II
P lantae	Euphorbiales	Euphorbiaceae	Euphorbia	attastom a	Euphorbia attastom a	II
P lantae	Euphorbiales	Euphorbiaceae	Euphorbia	comosa	Euphorbia com osa	II
P antae	Euphorbiales	Euphorbiaceae	Euphorbia	estevesii	Euphorbia estevesii	II
P antae	Euphorbiales	Euphorbiaceae	Euphorbia	gym noc lada	Euphorb a gym noc ada	II
P antae	Euphorbiales	Euphorbiaceae	Euphorbia	heterodoxa	Euphorbia heterodoxa	II
P lantae	Euphorbiales	Euphorbiaceae	Euphorbia	ho bch brina	Euphorbia ho bch brina	II
P lantae	Euphorbiales	Euphorbiaceae	Euphorbia	athyris	Euphorbia athyris	II
P lantae	Euphorbiales	Euphorbiaceae	Euphorbia	m arginata	Euphorbia m arginata	II
P lantae	Euphorbales	Euphorbiaceae	Euphorbia	phosphorea	Euphorb a phosphorea	II
P lantae	Euphorbales	Euphorbiaceae	Euphorbia	prostrata	Euphorbia prostrata	II
						II
P lantae	Euphorbiales	Euphorbiaceae	Euphorbia	psam m oph ila	Euphorb ia psam mophila	
P lantae	Euphorbiales	Euphorbiaceae	Euphorbia	rhabdodes	Euphorbia rhabdodes	II
P lantae	Euphorbiales	Euphorbiaceae	Euphorbia	sarcodes	Euphorb a sarcodes	II
P lantae	Euphorbiales	Euphorbiaceae	Euphorbia	s ipo lis ii	Euphorbia sipolisii	II
P lantae	Laurales	Lauraceae	An ba	rosaeodora	An ba rosaeodora	II
P lantae	Fabales	Legum nosae	Caesabinia	ech nata	Caesa bin a ech nata	II
P lantae	Fabales	Legum nosae	Dabergia	n igra	Dabergian igra	I
P lantae	Sapindales	M e liaceae	C edre la	fissilis	Cedre la fissilis	III
P lantae	Sapinda les	M e liaceae	C edre la	lilb i	Cedre la lilb i	III
P lantae	Sapindales	M e liaceae	Cedre la	odorata	Cedre la odorata	III
P lantae	Sapindales	Meliaceae	Swietenia	m acrophy la	Swieten ia m acrophylla	II
P lantae	0 rch idales	0 rch idaceae	Acheta	alticola	A cine ta altico la	II
P lantae	0 rch idales	0 rch idaceae	A spas ia		A amagin live also	
P lantae			A opuo u	lunata	A spas ia lunata	II
	0 rch idales	0 rch daceae	A spas ia	silvana	A spas a unata A spas a s ilvana	II II
P lantae	0 rchidales 0 rchidales	0 rch idaceae	A spas ia	silvana	A spas ia s ilvana	
P antae P antae						II
	0 rchidales	0 rchidaceae 0 rchidaceae	A spas ia A spas ia	s ilvana var egata	A spas a s ilvana A spas a variegata	II II
P lantae	0 rch idales 0 rch idales	0 rch daceae 0 rch daceae 0 rch daceae	A spas ia A spas ia B ifrenaria	silvana var egata atropurpurea	A spas ia s ilvana A spas ia var iegata B ifrenar ia atropurpurea	II II II
P antae P antae P antae	0 rch idales 0 rch idales 0 rch idales	0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae	A spas ia A spas ia B ifrenaria B ifrenaria B ifrenaria	s ilvana var egata atropurpurea cabarata char esw orth ii	A spas a s ilvana A spas a var egata B ifrenar a atropurpurea B ifrenar a cabarata	II II II
P antae P antae P antae P antae P antae	0 rch dales 0 rch dales 0 rch dales 0 rch dales 0 rch dales	0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae	A spas a A spas a B ifrenaria B ifrenaria B ifrenaria B ifrenaria	s ilvana var egata atropurpurea ca barata char esw orth ii c ev gera	A spas a silvana A spas a var egata B ifrenar a atropurpurea B ifrenar a ca barata B ifrenar a charbsworth ii B ifrenar a c by gera	II II II II
P Intae P Intae P Intae P Intae P Intae P Intae P Intae P Intae	0 rch dabs 0 rch dabs 0 rch dabs 0 rch dabs 0 rch dabs 0 rch dabs 0 rch dabs	O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae	A spas a A spas a B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria	silvana var egata atropurpurea cabarata char esworth ii c ev gera harr son ae	A spas a silvana A spas a var e gata B ifrenar a atropurpurea B ifrenar a ca barata B ifrenar a char b sworth ii B ifrenar a c b v gera B ifrenar a harr son ae	
P antae P antae P antae P antae P antae P antae P antae P antae P antae	0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs	O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae	A spas a A spas a B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria	s ilvana variegata atropurpurea ca barata char bsw orth ii c bv gera harrison be inodora	A spas è s ilvana A spas è var è gata B iffenar è atropurpurea B iffenar è cabarata B iffenar è cabarata B iffenar è char è sworth ii B iffenar à c àv jera B iffenar è harrison èe B iffenar à nodora	
P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae	0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs	O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae	Aspas a Aspas a B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria	s ilvana var i gata atropurpu rea cabarata char bsworth ii c by ge ra harr son ae indora bucorrhoda	A spas à s ilvana A spas à var è gata B ifrenar à atropurpurea B ifrenar à cabarata B ifrenar à cabarata B ifrenar à cabares worth ii B ifrenar à cavigera B ifrenar à harrison àe B ifrenar à harrison à B ifrenar à harrison	
P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae	0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs	O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae	Aspas a Aspas a B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria	silvana varigata atropurpurea cabarata char bsworth ii c by gera harrison be indora bucorrhoda bng born is	A spas a silvana A spas a var egata B ifrenar a atropurpurea B ifrenar a cabarata B ifrenar a charesworth ii B ifrenar a charesworth ii B ifrenar a harrison ae B ifrenar a harrison ae B ifrenar a bucorrhoda B ifrenar a bugorm is	
P antae P antae P antae P antae P lantae P lantae P antae P antae P antae P antae P lantae	0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs	0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae	Aspas a Aspas a B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria	silvana variegata atropurpurea cabarata charlesworthii c lavigera harrison be inodora bucorrhoda bngcorn is m e bnopoda	A spas à s ilvana A spas à var è gata A spas à var è gata B ifrenar à atopurpurea B ifrenar à char baw orth ii B ifrenar à char baw orth ii B ifrenar à char baw orth ii B ifrenar à char baw orth ii B ifrenar à harr son àe B ifrenar à harr son ae B ifrenar à bucorrhoda B ifrenar à bucorrhoda B ifrenar à bng born s B ifrenar à m e anopoda	
P antae P antae P antae P antae P lantae	0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs	O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae	A spas a A spas a A spas a B iffenaria B iffenaria B iffenaria B iffenaria B iffenaria B iffenaria B iffenaria B iffenaria B iffenaria B iffenaria B iffenaria B iffenaria B iffenaria	silvana varigata atropurpurea cabarata char bsworth ii c bv gera harrison ie inodora bucorrhoda bng born is m e lanopoda m e llico br	A spas è s ilvana A spas è var è gata B ifrenar à atropurpurea B ifrenar à cabarata B ifrenar à cabarata B ifrenar à c av gera B ifrenar à c av gera B ifrenar à harr son è B ifrenar à hodora B ifrenar à bucorrhoda B ifrenar à bugom à B ifrenar à bugom à B ifrenar à elico br	
P antae P lantae	0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs	O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae	A spas a A spas a B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria B ifrenaria	silvana varigata atropurpurea cabarata char-bsworth ii c by gera harrison ae inodora bucorrhoda bng com is m e lanopoda m e lico br racem osa	A spas à silvana A spas à varigata B ifrenaria atropurpurea B ifrenaria cabarata B ifrenaria charlesworthii B ifrenaria calvigera B ifrenaria harrisoniae B ifrenaria hodora B ifrenaria bucorrhoda B ifrenaria bongoomis B ifrenaria me lincolor B ifrenaria me lincolor B ifrenaria me lincolor	
P antae P antae P antae P lantae	0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs	O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae	Aspas a Aspas a Bifrenaria Bifrenaria Bifrenaria Bifrenaria Bifrenaria Bifrenaria Bifrenaria Bifrenaria Bifrenaria Bifrenaria Bifrenaria Bifrenaria Bifrenaria Bifrenaria Bifrenaria Bifrenaria Bifrenaria	silvana varigata atropurpurea cabarata char bsworth ii c by gera harrison be inodora bucorrhoda bng com is m e lanopoda m e llico br racem osa silvana	A spas a sivana A spas a varegata B ifrenaria atropurpurea B ifrenaria cabarata B ifrenaria cabarata B ifrenaria charesworthii B ifrenaria charesworthii B ifrenaria chareson ae B ifrenaria nodora B ifrenaria buccorrhoda B ifrenaria bugcornis B ifrenaria me alnopoda B ifrenaria me alnopoda B ifrenaria me alnopoda B ifrenaria me alnopoda B ifrenaria racemosa B ifrenaria racemosa B ifrenaria sivana	
P antae P antae	0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs	O rch daceae O rch daceae	A spas à A spas à B sifrenaria B sifrenaria B sifrenaria B sifrenaria B sifrenaria B sifrenaria B sifrenaria B sifrenaria B sifrenaria B sifrenaria B sifrenaria B sifrenaria B sifrenaria B sifrenaria B sifrenaria B sifrenaria B sifrenaria B sifrenaria	silvana var egata atropurpur ea cabarata char bsworth ii c bvigera harrison be inodora bucorrhoda bugcom is m e bnopoda m e llico br racem osa silvana ste fanae	A spas à silvana A spas à var è gata B iffenar à atropurpurea B iffenar à cabarata B iffenar à cabarata B iffenar à char è sworth ii B iffenar à char è sworth ii B iffenar à narrison àe B iffenar à narrison àe B iffenar à bucorrhoda B iffenar à bucorrhoda B iffenar à me lanopoda B iffenar à me lanopoda B iffenar à me alloo br B iffenar à racem osa B iffenar à silvana B iffenar a ste fanae	
P antae P antae	O rch idabs O rch idabs O rch idabs O rch idabs O rch idabs O rch idabs O rch idabs O rch idabs O rch idabs O rch idabs O rch idabs O rch idabs O rch idabs O rch idabs O rch idabs O rch idabs O rch idabs O rch idabs O rch idabs O rch idabs	O rch daceae O rch daceae	A spas a A spas a A spas a B iffenaria	silvana varigata atropurpurea cabarata char bsworth ii c by gera harrison ae inodora bucorrhoda bugicom is m e lanopoda m ellico br racem osa silvana ste fanae tyrianth na	A spas è s ilvana A spas è var è gata B ifrenar à atropurpurea B ifrenar à cabarata B ifrenar à cabarata B ifrenar à cav era B ifrenar à cav era B ifrenar è harr son è B ifrenar à hodora B ifrenar à bucorrhoda B ifrenar à bucorrhoda B ifrenar à e bucorrhoda B ifrenar à e bucorrhoda B ifrenar à e bucorrhoda B ifrenar à e bucorrhoda B ifrenar à s la era e bucorrhoda B ifrenar à s la era e bucorrhoda B ifrenar à s e lico br B ifrenar à s si vana B ifrenar à s ste fanae B ifrenar à ste fanae	
P antae P antae	O rch idabs O rch idabs	O rch daceae O rch daceae	A spas a A spas a B ifrenaria	silvana varigata atropurpurea cabarata char bsworth ii c by gera harrison ae inodora bucorrhoda bng com is m e lanopoda m e llico br racem osa silvana ste fanae tyrianth in a	A spas à silvana A spas à var è gata B ifrenar à atropurpurea B ifrenar à cabarata B ifrenar à cabarata B ifrenar à cabarata B ifrenar à cavera B ifrenar à harr son àe B ifrenar à harr son àe B ifrenar à hodora B ifrenar à bucorrhoda B ifrenar à bucorrhoda B ifrenar à me lico br B ifrenar à me lico br B ifrenar à me lico br B ifrenar à silvana B ifrenar à stefanae B ifrenar à stefanae B ifrenar à tyranth ha B ifrenar a venezue ana	
P antae P antae	O rch idabs O rch idabs	O rch daceae O rch daceae	A spas à A spas à B sifrenaria	silvana var egata atropurpurea ca barata char bsworth ii c bvigera harrison be inodora bucorrhoda bng born is m e lanopoda m e libo br racem osa silvana ste fanae tyr jan th ia venezue lana verboonen ii	A spas à silvana A spas à varègata A spas à varègata B ifrenaria atropurpurea B ifrenaria cabarata B ifrenaria charèsworth ii B ifrenaria charèsworth ii B ifrenaria charèsworth ii B ifrenaria harrison ae B ifrenaria harrison ae B ifrenaria bucorrhoda B ifrenaria bucorrhoda B ifrenaria bugornis B ifrenaria me alico br B ifrenaria me alico br B ifrenaria racemosa B ifrenaria sitefanae B ifrenaria stefanae B ifrenaria venezue ana B ifrenaria venezue ana B ifrenaria venezue ana	
P antae P antae	O rch idabs O rch idabs	O rch daceae O rch daceae	A spas a A spas a A spas a B fifenaria	silvana variegata atropurpurea cabarata char bsworth ii c bvigera harrison iae inodora bucorrhoda bng corn is m e lanopoda m e lico br racem osa silvana stefanae tyranth ina venezue lana verboonen ii vite lina	A spas à silvana A spas à var è gata B iffenar à atropurpurea B iffenar à cabarata B iffenar à cabarata B iffenar à cabarata B iffenar à char è sworth ii B iffenar à char è sworth ii B iffenar à narrison àe B iffenar à harrison àe B iffenar à bucorrhoda B iffenar à bucorrhoda B iffenar à bucorrhoda B iffenar à me lico br B iffenar à me lico br B iffenar à racem osa B iffenar à ste fanae B iffenar à tyranth ha B iffenar à venezue ana B iffenar à venezue ana B iffenar à verbonen ii B iffenar a verbonen ii	
P antae P antae	O rch idabs O rch idabs	O rch daceae O rch daceae	A spas a A spas a A spas a B ifrenaria	silvana varigata atropurpurea cabarata char bsworth ii c by gera harrison ae inodora bucorrhoda bing born is me lanopoda me libo br racem osa silvana ste fanae tyrianth ha venezue lana verboonen ii vite lina w ittigii	A spas è s ilvana A spas è var è gata B ifrenar à atropurpurea B ifrenar à cabarata B ifrenar à cabarata B ifrenar à cabarata B ifrenar à cavigera B ifrenar à harrison è B ifrenar à hodora B ifrenar à hodora B ifrenar à bugornhoda B ifrenar à bugornhoda B ifrenar à elico br B ifrenar à me almopoda B ifrenar à stefanae B ifrenar à stefanae B ifrenar à stefanae B ifrenar à venezue lana B ifrenar à venezue lana B ifrenar à venezue lana B ifrenar à venezue lana B ifrenar à venezue lana B ifrenar à venezue lana B ifrenar à venezue lana B ifrenar à venezue lana B ifrenar à venezue lana B ifrenar à venezue lana B ifrenar à venezue lana B ifrenar à venezue lana B ifrenar à venezue lana B ifrenar à venezue lana	
P antae P antae	O rch idabs O rch idabs	O rch daceae O rch daceae	A spas a A spas a B ifrenaria	silvana variegata atropurpurea cabarata char bsworth ii c bvigera harrison iae inodora bucorrhoda bng corn is m e lanopoda m e lico br racem osa silvana stefanae tyranth ina venezue lana verboonen ii vite lina	A spas à silvana A spas à var è gata B iffenar à atropurpurea B iffenar à cabarata B iffenar à cabarata B iffenar à cabarata B iffenar à char è sworth ii B iffenar à char è sworth ii B iffenar à narrison àe B iffenar à harrison àe B iffenar à bucorrhoda B iffenar à bucorrhoda B iffenar à bucorrhoda B iffenar à me lico br B iffenar à me lico br B iffenar à racem osa B iffenar à ste fanae B iffenar à tyranth ha B iffenar à venezue ana B iffenar à venezue ana B iffenar à verbonen ii B iffenar a verbonen ii	
P antae P antae	O rch idabs O rch idabs	O rch daceae O rch daceae	A spas a A spas a A spas a B ifrenaria	silvana varigata atropurpurea cabarata char bsworth ii c by gera harrison ae inodora bucorrhoda bing born is me lanopoda me libo br racem osa silvana ste fanae tyrianth ha venezue lana verboonen ii vite lina w ittigii	A spas è s ilvana A spas è var è gata B ifrenar à atropurpurea B ifrenar à cabarata B ifrenar à cabarata B ifrenar à cabarata B ifrenar à cavigera B ifrenar à harrison è B ifrenar à hodora B ifrenar à hodora B ifrenar à bugornhoda B ifrenar à bugornhoda B ifrenar à elico br B ifrenar à me almopoda B ifrenar à stefanae B ifrenar à stefanae B ifrenar à stefanae B ifrenar à venezue lana B ifrenar à venezue lana B ifrenar à venezue lana B ifrenar à venezue lana B ifrenar à venezue lana B ifrenar à venezue lana B ifrenar à venezue lana B ifrenar à venezue lana B ifrenar à venezue lana B ifrenar à venezue lana B ifrenar à venezue lana B ifrenar à venezue lana B ifrenar à venezue lana B ifrenar à venezue lana	
P antae P antae P antae P lantae	O rch idabs O rch idabs	O rch daceae O rch daceae	A spas a A spas a B ifrenaria	silvana varigata atropurpurea cabarata char bsworth ii c by gera harrison ae inodora bucorrhoda bng com is m e lanopoda m e lico br racem osa silvana ste fanae tyrian th ina venezue lana verboonen ii vite lina w itt gii catenu lata	A spas à silvana A spas à varigata B ifrenaria atropurpurea B ifrenaria cabarata B ifrenaria cabarata B ifrenaria charlesworthii B ifrenaria charlesworthii B ifrenaria charlesworthii B ifrenaria charlesworthii B ifrenaria harrisoniae B ifrenaria hodora B ifrenaria buccorrhoda B ifrenaria buccorrhoda B ifrenaria bugcomis B ifrenaria me lilico br B ifrenaria me lilico br B ifrenaria me lilico br B ifrenaria racem osa B ifrenaria silvana B ifrenaria stefanae B ifrenaria verboonenii B ifrenaria verboonenii B ifrenaria vite llina B ifrenaria vite llina B ifrenaria vite llina B ifrenaria vite llina B ifrenaria vite llina B ifrenaria vite llina B ifrenaria vite llina	
P antae P antae	O rch idabs O rch idabs	O rch daceae O rch daceae	A spas à A spas à B sifrenaria	silvana varigata atropurpurea cabarata char bsworth ii c bvigera harrison be inodora bucorrhoda bngcorn is m e bnopoda m e lico br racem osa silvana ste fanae tyrianth ina venezue lana verboonen ii vite lina w titgii catenu bta angustata	A spas à silvana A spas à var è gata B iffenar à atropurpurea B iffenar à ca barata B iffenar à ca barata B iffenar à char è sworth ii B iffenar à char è sworth ii B iffenar à char è sworth ii B iffenar à na char è sworth ii B iffenar à na char è sworth ii B iffenar à nodora B iffenar à nodora B iffenar à bucorrhoda B iffenar à bucorrhoda B iffenar à me llico br B iffenar à me llico br B iffenar à racem osa B iffenar à silvana B iffenar à stranae B iffenar à tyrianth ha B iffenar à venezue bana B iffenar à venezue bana B iffenar à venezue bana B iffenar à vetboonen ii B iffenar à vetboonen ii B iffenar à vetboonen ii B iffenar à vetbounen ii B iffenar à vetbounen ii B iffenar à vetbounen ii B iffenar à vetbounen ii B iffenar à vetbounen ii B iffenar à vetbounen ii B iffenar à vetbounen ii B iffenar à vetbounen ii	
P antae P antae	O rch idabs O rch idabs	O rch daceae O rch daceae	A spas à A spas à A spas à B fifenaria	silvana varigata atropurpurea cabarata char bsworth ii c bvigera harrison iee inodora bucorrhoda bngborn is m e lanopoda m e llico br racem osa silvana ste fanae tyranth ina venezue lana verboonen ii vite llina w ittigii catenu lata angustata cebo leta	A spas à silvana A spas à var è gata A spas à var è gata B iffenar à cat purpurea B iffenar à cat parata B iffenar à cat parata B iffenar à cat vigera B iffenar à cat vigera B iffenar à narrison àe B iffenar à harrison àe B iffenar à bucorrhoda B iffenar à bucorrhoda B iffenar à bucorrhoda B iffenar à lucorrhoda B iffenar à lucorrhoda B iffenar à recem osa B iffenar à racem osa B iffenar à racem osa B iffenar à ste fanae B iffenar à vier au a B iffenar à venezue ana B iffenar à verbonen ii B iffenar à verbonen ii B iffenar à verbonen ii B iffenar à viet lina B iffenar à viet lina B iffenar à verbonen ii B iffenar à verbonen ii B iffenar à verbonen ii B iffenar à verbonen ii B iffenar à verbonen ii B iffenar à verbonen ii B iffenar à verbonen ii B iffenar à verbonen ii B iffenar à verbonen ii B iffenar à verbonen ii B iffenar à verbonen ii B iffenar à verbonen ii	
P antae P antae	O rch idabs O rch idabs	O rch daceae O rch daceae	A spas ia A spas ia A spas ia B iffenaria	silvana varigata atropurpurea cabarata char bsworth ii c by gera harrison ae inodora bucorrhoda bing born is me lanopoda me libo by racem osa silvana ste fanae tyranth ina venezue lana verboonen ii vite lina w ittigii catenu lata angustata cebo libta filifo lia	A spas is sivana A spas is vare gata A spas is vare gata B iffenar is atropurpurea B iffenar is cabarata B iffenar is charbsworth ii B iffenar is charbsworth ii B iffenar is charbsworth ii B iffenar is charbsworth ii B iffenar is charbsworth ii B iffenar is charbsworth ii B iffenar is hardson is B iffenar is hodora B iffenar is hucorrhoda B iffenar is hucorrhoda B iffenar is hucorrhoda B iffenar is hucorrhoda B iffenar is ne elinopoda B iffenar is ne elinopoda B iffenar is me elinopoda B iffenar is racem osa B iffenar is racem osa B iffenar is at lanae B iffenar is tyrianth in a B iffenar is verboonen ii B iffenar is vite lina B iffenar is wittigii B btia catenu lata B rassavo ha oebo lieta B rassavo ha filifo lia	

Table A3 List of CITES registered animals in Brazil (continued, 14/20)

	T	T		`	1=	1
P lantae	0 rchidales	0 rch idaceae	B rassavo la	nodosa	B rassavo la nodosa	II
P lantae	0 rchidales	0 rch idaceae	B rassavo la	perrinii	B rassavo la perrinii	II
P lantae	0 rch idales	0 rch idaceae	B rassavo la	retusa	B rassavo la retusa	II
P lantae	0 rchidales	0 rch idaceae	B rassavo la	tube rcu lata	B rassavo la tubercu lata	II
P antae	0 rchidales	0 rch idaceae	B rassavo la	venosa	B rassavo la venosa	II II
P lan tae P lan tae	0 rch idales 0 rch idales	0 rch idaceae 0 rch idaceae	B rassia B rassia	angustibbia arachnoidea	B rass a angustiab a B rass a arachno dea	II
P antae	0 rch idales	0 rch idaceae	Brassia	bidens	Brassia bidens	II
P antae	0 rch idales	0 rch daceae	Brassia	caudata	B rass a caudata	II
P antae	0 rch idales	0 rch idaceae	B rass ia	ch bro euca	Brassia ch bro euca	II
P antae	0 rch idales	0 rch daceae	B rass ia	huebneri	Brassia huebneri	II
P antae	0 rch idales	0 rch daceae	B rass ia	ignapuana	Brassia ignapuana	II
P antae	0 rch idales	0 rch daceae	B rass ia	anceana	Brassia lanceana	II
P antae	0 rchidales	0 rch daceae	B rass ia	law renceana	Brassia law renceana	II
P antae	0 rchidales	0 rch daceae	Bu bophy llum	adiam antinum	Bu bophy lum adiam antinum	II
P antae	0 rchidales	0 rch daceae	Bu bophy lum	arianeae	Bu bophy lum araneae	II
P lantae	0 rchidales	0 rch idaceae	Bu bophy lum	atropurpureum	Bu bophy lum atropurpureum	II
P lantae	0 rchidales	0 rch idaceae	Bu bophy lum	barbatum	Bu bophy lum barbatum	II
P lantae	0 rch idales	0 rch idaceae	Bu bophy llum	bidentatum	Bu bophylum bidentatum	II
P lantae	0 rch idales	0 rch idaceae	Bu bophy llum	boudetiana	Bu bophylum boudetiana	II
P lantae	0 rch idales	0 rch idaceae	Bu bophy lum	bracteo latum	Bu bophylum bracteolatum	II
P antae	0 rch idales	0 rch idaceae	Bu bophy lum	cam pos-porto i	Bu bophy lum cam pos-porto i	II
P lantae	0 rchidales	0 rch idaceae	Bu bophy lum	cantagallense	Bu bophy lum cantaga lense	II
P antae	0 rchidales	0 rch daceae	Bu bophy lum	ch brog bssum	Bu bophylum ch brog bssum	II
P antae	0 rchidales	0 rch daceae	Bu bophy llum	ch bropterum	Bu bophyllum ch bropterum	II
P antae	0 rchidales	0 rch daceae	Bu bophy llum	c ilu liae	Bu bophy lum c iu liae	II
P antae	0 rchidales	0 rch daceae	Bu bophy lum	c aussen i	Bu bophy lum c aussen i	II
P antae	0 rchidales	0 rch daceae	Bu bophy lum	cogn aux anum	Bu bophylum cogn aux anum	II
P antae	0 rchidales	0 rch daceae	Bu bophy lum	correae	Bu bophy lum correae	II
P antae	0 rchidales	0 rch daceae	Bu bophy llum	crbbianum	Bu bophylum crbb anum	II
P lantae	0 rchidales	0 rch idaceae	Bu bophy lum	dusen ii	Bu bophy lum dusen ii	II
P lantae	0 rch idales	0 rch idaceae	Bu bophy llum	epiphytum	Bu bophylum epiphytum	II
P lantae	0 rch idales	0 rch idaceae	Bu bophy llum	e xa Itatum	Bu bophyllum exaltatum	II
P lantae	0 rch idales	0 rch idaceae	Bu bophy llum	filifo lium	Bu bophy lum filifo lum	II
P lantae	0 rch idales	0 rch idaceae	Bu bophy llum	geraense	Bu bophylum geraense	II
P lantae	0 rch idales	0 rch idaceae	Bu bophy llum	g bd iatum	Bu bophylum gladiatum	II
P lantae	0 rch idales	0 rch idaceae	Bu bophy llum	glutinosum	Bu bophylum glutnosum	II
P lantae	0 rch idales	0 rch idaceae	Bu bophy llum	gomesii	Bu bophylum gomesii	II
P lantae	0 rch idales	0 rch idaceae	Bu bophyllum	granu bsum	Bu bophylum granu bsum	II
P lantae	0 rch idales	0 rch idaceae	Bu bophy llum	insectiferum	Bu bophylum insectiferum	II
P lantae	0 rchidales	0 rch idaceae	Bu bophy llum	invo lutum	Bu bophylum involutum	II
P lantae	0 rchidales	0 rch idaceae	Bu bophy llum	ipanem ense	Bu bophyllum panemense	II
P lantae	0 rch idales	0 rch idaceae	Bu bophy llum	jaguarjahyvae	Bu bophylum jaguariahyvae	II
P lantae	0 rch idales	0 rch idaceae	Bu bophy llum	kautskyi	Bu bophylum kautskyi	II
P lantae	0 rchidales	0 rch idaceae	Bu bophy llum	ke ge lii	Bu bophylum kegelii	II
P lantae	0 rchidales	0 rch idaceae	Bu bophy llum	ac in iatum	Bu bophyllum lacin latum	II
P lantae	0 rchidales	0 rch idaceae	Bu bophyllum	bngipetalum	Bubophylum bngpetalum	II
P lantae	0 rch idales	0 rch idaceae	Bu bophy llum	bng ispicatum	Bu bophylum bngispicatum	II
P lantae	0 rch idales	0 rch idaceae	Bu bophy llum	Liederw a ldtii	Bu bophylum Lederwaldtii	II
P lantae	0 rch idales	0 rch idaceae	Bu bophy llum	lundianum	Bu bophylum lundianum	II
P lantae	0 rchidales	0 rch idaceae	Bu bophy llum	macroceras	Bu bophylum macroceras	II
P lantae	0 rch idales	0 rch idaceae	Bu bophy llum	m a lachaden ia	Bu bophyllum malachaden ia	II
P lantae	0 rch idales	0 rch idaceae	Bu bophy llum	melbi	Bu bophyllum melbi	II
P lantae	0 rch idales	0 rch idaceae	Bu bophy llum	m entosum	Bu bophyllum mentosum	II
P antae	0 rchidales	0 rchidaceae	Bu bophy llum	m ic ranthum	Bu bophyllum micranthum	II
P lan tae	0 rchidales	0 rch idaceae	Bu bophyllum Bu bophyllum	m icrope ta liform e	Bu bophyllum m icropetaliform e	
P lan tae	0 rchidales	0 rch idaceae 0 rch idaceae	Bu bophyllum	m iranda ianum	Bu bophyllum miranda anum	II
P lantae P lantae	0 rch idales 0 rch idales	0 rch daceae	Bu bophyllum	m uc ron ifo lium	Bu bophy lum mucron ifo lum Bu bophy lum nape lli	II
P lantae	0 rchidales	0 rch idaceae	Bu bophy lum	nape lli nape lb ides	Bu bophyllum nape lb ides	II
P lantae P lantae	0 rchidales	0 rch daceae	Bu bophy lum	nem orosum	Bu bophylum nape io des	II
P lantae	0 rch idales	0 rch idaceae	Bu bophy lum	ochraceum	Bu bophyllum ochraceum	II
P antae	0 rchidales	0 rch daceae	Bu bophy lum	oerstedii	Bu bophyllum oerstedii	II
P antae	0 rchidales	0 rch idaceae	Bu bophy llum	pabstii	Bu bophyllum pabstii	II
P antae	0 rch idales	0 rch daceae	Bu bophy llum	paranaense	Bu bophy lum paranaense	II
P antae	0 rchidales	0 rch idaceae	Bu bophy llum	perii	Bu bophyllum perii	II
P antae	0 rch idales	0 rch daceae	Bu bophy llum	perpendicu lare	Bu bophyllum perpendiculare	II
P antae	0 rchidales	0 rch idaceae	Bu bophy llum	plum osum	Bu bophyllum plumosum	II
P antae	0 rchidales	0 rch daceae	Bu bophy llum	proencai	Bu bophyllum proencai	II
P antae	0 rchidales	0 rch idaceae	Bu bophy llum	punctatum	Bu bophy lum punctatum	II
P antae	0 rchidales	0 rch daceae	Bu bophy llum	quadrico br	Bu bophyllum quadrico br	II
P antae	0 rchidales	0 rch idaceae	Bu bophy lum	quadrisetum	Bu bophyllum quadrisetum	II
P antae	0 rchidales	0 rch daceae	Bu bophy llum	regne lli	Bu bophy lum regne lli	II
	0 rchidales	0 rch idaceae	Bu bophy llum	ricaldone i	Bu bophylum ricadone i	II
P antae	0 rchidales	0 rch daceae	Bu bophy lum	rorainense	Bu bophy lum rorain ense	II
P lantae P lantae	1 MM NO	0 rch idaceae	Bu bophy lum	rupico la	Bu bophylum rupico la	II
	0 rch idales	UTUTTUAGEAE				
P lantae	0 rch idales 0 rch idales	0 rch daceae	Bu bophy llum	sanderianum	Bu bophyllum sanderianum	II
P antae P antae						
P antae P antae P antae	0 rch idales	0 rch idaceae	Bu bophy llum	sanderianum	Bu bophyllum sanderianum	II

Table A3 List of CITES registered animals in Brazil (continued, 15/20)

P lan tae	0 rchidales	0 rch idaceae	Bu bophy llum	vaughan ii	Bu bophyllum vaughanii	II
P lan tae	0 rchidales	0 rch idaceae	Bu bophyllum	warm ingianum	Bu bophyllum warm ingianum	II
P lantae	0 rchidales	0 rch idaceae	Bu bophy llum	w e dde lii	Bu bophyllum wedde lii	II
P lantae	0 rch idales	0 rch idaceae	Catasetum	acu eatum	Catasetum aculeatum	II
P lantae	0 rchidales	0 rch idaceae	Catasetum	abovirens	Catasetum abovirens	II
P lantae	0 rchidales	0 rch idaceae	Catasetum	arjouanense	Catasetum aripuanense	II
P lantae	0 rchidales	0 rch idaceae	Catasetum	atratum	Catasetum atratum	II
P lantae	0 rch idales	0 rch idaceae	Catasetum	barbatum	Catasetum barbatum	II
P lan tae	0 rchidales	0 rch idaceae	Catasetum	bergo blianum	Catasetum bergoldianum	II
P lantae	0 rch idales	0 rch daceae	Catasetum	backii	Catasetum blackii	II
P antae	0 rchidales	0 rch daceae	Catasetum	bovi	Catasetum bovi	II
P antae	0 rchidales	0 rch daceae	Catasetum	brachybu bon	Catase tum brachybu bon	II
P antae	0 rch idales	0 rch daceae	Catasetum	calbsum	Catasetum calbsum	II
P antae	0 rch idales	0 rch daceae	Catasetum	caputhum	Catasetum caputinum	II
P antae	0 rchidales	0 rch daceae	Catasetum	caro lin ianum	Catasetum carolinianum	II
P antae	0 rch idales					II
		0 rch idaceae	Catasetum	cernuum	Catasetum cernuum Catasetum collare	II
P antae	0 rchidales	0 rch idaceae	Catasetum	collare		
P antae	0 rchidales	0 rch daceae	Catasetum	complanatum	Catasetum complanatum	II
P lantae	0 rchidales	0 rch idaceae	Catasetum	confusum	Catasetum confusum	II
P lantae	0 rchidales	0 rch idaceae	Catasetum	costatum	Catasetum costatum	II
P lantae	0 rchidales	0 rch idaceae	C atase tum	cristatum	Catasetum cristatum	II
P lantae	0 rchidales	0 rch idaceae	Catasetum	cucu llatum	Catasetum cucullatum	II
P lantae	0 rch ida les	0 rch daceae	Catasetum	de Ito ideum	Catasetum de Ito ideum	II
P lantae	0 rch idales	0 rch daceae	Catasetum	denticu latum	Catasetum denticulatum	II
P lantae	0 rch idales	0 rch idaceae	Catasetum	disco br	Catasetum discobr	II
P antae	0 rch idales	0 rch daceae	Catasetum	dunsterville i	Catasetum dunstervillei	II
P lantae	0 rch idales	0 rch idaceae	Catasetum	faustii	Catasetum faustii	II
P lantae	0 rch idales	0 rch daceae	Catasetum	ferox	Catasetum ferox	II
P lantae	0 rch idales	0 rch idaceae	Catasetum	fin briatum	Catasetum fin briatum	II
P lantae	0 rch idales	0 rch daceae	Catasetum	franch in ianum	Catasetum franchinianum	II
P lantae	0 rchidales	0 rch idaceae	Catasetum	galeatum	Catasetum galeatum	II
P lantae	0 rch idales	0 rch daceae	Catasetum	galeritum	Catasetum galeritum	II
P antae	0 rchidales	0 rch daceae	Catasetum	garnettianum	Catasetum garnettianum	ΪΪ
P antae	0 rchidales	0 rch daceae	Catasetum	georgii	Catasetum georgii	II
P antae	0 rchidales	0 rch daceae	Catasetum	gadiatorium	Catasetum gadiatorium	II
P antae	0 rch idales	0 rch daceae	Catasetum	gbbifbrum	Catasetum gbbifbrum	II
P antae	0 rchidales	0 rch daceae	Catasetum	gnomus	Catasetum gnomus	II
P antae	0 rchidales	0 rch daceae	Catasetum	hookeri	Catasetum hookeri	II
						II
P antae	0 rchidales	0 rch daceae	Catasetum	huebneri	Catasetum huebneri	
P antae	0 rchidales	0 rch daceae	Catasetum	imperiale	Catasetum in periale	II
P lantae	0 rchidales	0 rch idaceae	Catasetum	interm edium	Catasetum intermedium	II
P lantae	0 rchidales	0 rch idaceae	Catasetum	issanen is	Catasetum issanen is	II
P lantae	0 rchidales	0 rch idaceae	C atase tum	juruense	Catasetum juruense	II
P lantae	0 rchidales	0 rch idaceae	Catasetum	keberianum	Catasetum keberianum	II
P lantae	0 rchidales	0 rch idaceae	Catasetum	kraenz lin ianum	Catasetum kraenzlinianum	II
P lantae	0 rch idales	0 rch idaceae	Catasetum	lanceanum	Catasetum lanceanum	II
P lantae	0 rch idales	0 rch idaceae	Catasetum	lancife rum	Catasetum lanciferum	II
P lantae	0 rchidales	0 rch idaceae	Catasetum	lem os ii	Catasetum lemosii	II
P lantae	0 rchidales	0 rch idaceae	Catasetum	lingu ife rum	Catasetum linguiferum	II
P lantae	0 rch idales	0 rch idaceae	Catasetum	bngifo lium	Catasetum bngifolium	II
P lantae	0 rch idales	0 rch idaceae	Catasetum	bngipes	Catasetum bngipes	II
P lantae	0 rch idales	0 rch idaceae	Catasetum	luridum	Catasetum Lirdum	II
P lantae	0 rchidales	0 rch idaceae	Catasetum	macrocarpum	Catasetum macrocarpum	II
P antae	0 rchidales	0 rch daceae	Catasetum	m aranhense	Catasetum maranhense	II
P antae	0 rchidales	0 rch idaceae	Catasetum	m attogrossense	Catase tum mattogrossense	II
P antae	0 rch dales	0 rch daceae	Catasetum	m attos anum	Catase tum mattos ianum	II
P antae	0 rch idales	0 rch daceae	Catasetum	m eeae	Catasetum meeae	II
P antae	0 rch dales	0 rch daceae	Catasetum	m icranthum	Catasetum m cranthum	II
P antae	0 rchidales	0 rch daceae	Catasetum	m ocuranum	Catasetum mocuranum	II
P antae	0 rchidales	0 rch daceae	Catasetum	m o juense	Catasetum mojuense	**
P antae	0 rchidales	0 rch daceae	Catase tum	m u Itifidum	Catase tum multifidum	II II
P antae	0 rchidales	0 rch daceae	Catasetum	o lare	Catase tum o lare	II
	0 rchidales		Catase tum		Catase tum ornithoides	II
P bntae		0 rch idaceae	Catase tum Catase tum	orn ithoides		
P antae	0 rchidales	0 rch daceae		oscu latum	Catasetum osculatum	II
P antae	0 rchidales	0 rch idaceae	Catasetum	parguazense	Catasetum parguazense	II
P antae	0 rchidales	0 rch daceae	Catasetum	pileatum	Catasetum pileatum	II
P antae	0 rchidales	0 rch idaceae	Catasetum	p lan iceps	Catasetum planiceps	II
P antae	0 rchidales	0 rch idaceae	Catasetum	poh lianum	Catasetum pohlianum	II
P antae	0 rchidales	0 rch idaceae	Catasetum	po lydac ty bn	Catasetum polydactybn	II
P lantae	0 rchidales	0 rch idaceae	Catasetum	pu bhrum	Catasetum pulchrum	II
P lantae	0 rch ida les	0 rch daceae	Catasetum	punc tatum	Catasetum punctatum	II
P lantae	0 rch ida les	0 rch daceae	C atase tum	purum	Catasetum purum	II
	IA I. SI. I	0 rch daceae	C atase tum	quadridens	Catasetum quadridens	II
P antae	0 rchidales			man dill	Catasetum randii	II
	0 rch ida les	0 rch daceae	C atase tum	randii		
P lantae			C atase tum C atase tum	regne llii	Catasetum regnellii	II
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P antae P antae P antae P antae P antae P antae P antae	0 rch da es 0 rch da es 0 rch da es 0 rch da es	0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae	Catase tum Catase tum Catase tum	regne Ilii re chenbach anum richteri	Catasetum regnellii Catasetum reichenbachianum Catasetum richteri	II II

Table A3 List of CITES registered animals in Brazil (continued, 16/20)

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Pintree 0 On hisbs 0 not hisbses 0 not hisbs	P lantae	0 rch ida les	0 rch idaceae	Catasetum	sem ic ircu latum	Catasetum semicirculatum	II
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Plantae 0 rchidales 0 rchidaceae Dryadella obrieniana Dryadella obrieniana II							
	P antae	0 rchidales	0 rch daceae	D ryade la	paranaà «nsis	D ryade la paranaà «nsis	II
r antate O Torth dates O Torth							

Table A3 List of CITES registered animals in Brazil (continued, 17/20)

[a	In	10	Ten	T., 15.11	I= 0 0 0 0 0	T
P lantae	0 rchidales	0 rchidaceae	Elleanthus	lin ifo lius	Elleanthus linifolius	II
P lantae P lantae	0 rchidales 0 rchidales	0 rch idaceae 0 rch idaceae	Encyclia	acuta advena	Encyc la acuta	II II
P antae P antae	0 rchidales	0 rch idaceae	Encyclia Encyclia	abgoensis	Encyc lia advena Encyc lia a lagoens is	II
P antae	0 rchidales	0 rch daceae	Encyc la	abopurpurea	Encyc la a bopurpurea	II
P lantae	0 rchidales	0 rch idaceae	Encyc lia	a boxanth na	Encyc la a boxanth na	ii
P lantae	0 rchidales	0 rch idaceae	Encyc lia	a llem an ii	Encyclia allemanii	II
P lantae	0 rchidales	0 rch idaceae	Encyc lia	a llem ano ides	Encyc lia a llem ano ides	II
P lantae	0 rchidales	0 rch idaceae	Encyclia	am ic ta	Encyclia am icta	II
P lantae	0 rch idales	0 rch idaceae	Encyclia	andrich ii	Encyclia andrich ii	II
P lantae	0 rch idales	0 rch idaceae	Encyclia	apuahuensis	Encyc la apuahuensis	ĪĪ
P lantae	0 rch idales	0 rch idaceae	Encyc lia	argenthensis	Encyc la argentinens is	II
P lantae	0 rch idales	0 rch idaceae	Encyclia	baculus	Encyc la bacu lıs	II
P lantae	0 rch idales	0 rch idaceae	Encyc lia	bracteata	Encyc la bracteata	II
P lantae	0 rch idales	0 rch idaceae	Encyc lia	bragranà § ae	Encyc la bragranã § ae	II
P lantae	0 rch idales	0 rch idaceae	Encyclia	burle-marxii	Encyclia bur le-marxii	II
P lantae	0 rchidales	0 rch idaceae	Encyclia	caetensis	Encyclia caetensis	II
P antae	0 rch idales	0 rch idaceae	Encyclia	calam aria	Encyclia calam aria	II
P lantae	0 rchidales	0 rch idaceae	Encyclia	cam pos-portoi	Encyc lia cam pos-porto i	II
P lantae	0 rchidales	0 rch idaceae	Encyc lia	capartiana	Encyc la capartiana	II
P lantae	0 rch idales	0 rch idaceae	Encyclia	cardin ii	Encyc la cardin ii	II
P lantae	0 rch idales	0 rch idaceae	Encyclia	chapadensis	Encyc la chapadens is	II
P lantae	0 rch idales	0 rchidaceae	Encyclia	conchaech ila	Encyc lia conchaech ila	II
P lantae	0 rchidales	0 rchidaceae	Encyc lia	confusa	Encyc la confusa	II
P lantae	0 rchidales	0 rchidaceae	Encyclia	dichrom a	Encyclia dichrom a	II
P lantae	0 rchidales	0 rch idaceae	Encyclia	doerngii	Encyclia doeringii	II
P antae	0 rchidales	0 rch idaceae	Encyclia	dutrai	Encyclia dutra i	II
P antae	0 rchidales	0 rch idaceae 0 rch idaceae	Encyclia	duveenii ensiformis	Encyclia duveen ii	II
P antae P antae	0 rchidales 0 rchidales	0 rch daceae	Encyclia Encyclia	ens from is	Encyclia ensiform is Encyclia euosma	II
P antae P antae	0 rchidales	0 rch daceae	Encycla	faresiana	Encyclia euosiii a	II
P antae	0 rchidales	0 rch idaceae	Encyc la	fausta	Encyc la fausta	II
P antae	0 rchidales	0 rch idaceae	Encyc la	flabe llife ra	Encyc la fabe llifera	II
P lantae	0 rchidales	0 rch idaceae	Encyc lia	flava	Encyc la flava	ii
P lantae	0 rchidales	0 rchidaceae	Encyc lia	fow lie i	Encyclia fow lie i	II
P lantae	0 rchidales	0 rch daceae	Encyc lia	fragrans	Encyc la fragrans	II
P lantae	0 rchidales	0 rch idaceae	Encyclia	galbpavina	Encyc la gallopavina	II
P lantae	0 rchidales	0 rch idaceae	Encyclia	gh illany i	Encyclia ghillanyi	II
P lantae	0 rchidales	0 rch idaceae	Encyclia	glum acea	Encyc la glum acea	II
P lantae	0 rch idales	0 rch idaceae	Encyc lia	gonzalezii	Encyc la gonza ez ii	II
P lantae	0 rch idales	0 rch idaceae	Encyclia	goyazensis	Encyc la goyazens is	II
P lantae	0 rch idales	0 rch idaceae	Encyc lia	gran itica	Encyc lia gran itica	II
P lantae	0 rch idales	0 rch idaceae	Encyclia	gravida	Encyc lia gravida	II
P lantae	0 rch idales	0 rch idaceae	Encyclia	hoehne i	Encyclia hoehne i	II
P lantae	0 rch idales	0 rch idaceae	Encyclia	ho landiae	Encyc la ho landae	II
P lantae	0 rch idales	0 rch idaceae	Encyclia	huebneri	Encyc la huebneri	II
P lantae	0 rchidales	0 rch idaceae	Encyclia	inversa	Encyclia inversa	II
P lantae	0 rch idales	0 rch idaceae	Encyclia	ionoph leb ia	Encycla bnoph bba	II
P lantae	0 rch idales	0 rch idaceae	Encyclia	ionosm a	Encyclia ionosma	II
P lantae	0 rch idales	0 rch idaceae	Encyclia	ivonae	Encyc la ivonae	II
P antae	0 rch idales	0 rchidaceae	Encyclia	kautskyi	Encyc la kautsky i	II
P lantae	0 rch idales	0 rchidaceae	Encyclia	lat pe ta la	Encyclia latipetala	II
P lantae	0 rchidales	0 rchidaceae	Encyclia	laxa	Encyclia laxa	II
P lantae	0 rchidales	0 rch idaceae	Encyc lia	linearifo libides	Encyclia linearifolioides	II
P antae	0 rchidales	0 rch idaceae	Encyclia	bngifolia	Encyclia bngifolia	II
P lantae P lantae	0 rchidales 0 rchidales	0 rch daceae 0 rch daceae	Encyclia Encyclia	utzenbergerii manuerae	Encyclia Litzenbergerii	II
P antae P antae	0 rchidales	0 rch idaceae	Encyclia	m apuerae m ega lantha	Encyclia m apuerae Encyclia m ega lantha	II
P antae	0 rchidales	0 rch daceae	Encyc la	m icroxath ina	Encyc la m croxath na	II
P lantae	0 rchidales	0 rch idaceae	Encyc la	m oo jen ii	Encyc la m oo jen ii	II
P lantae	0 rchidales	0 rch idaceae	Encyc la	onc d b des	Encycla mooghii Encycla oncid bides	II
P lantae	0 rchidales	0 rch idaceae	Encyc lia	osm an tha	Encyclia osmantha	II
P lantae	0 rchidales	0 rchidaceae	Encyc lia	o x iphy lla	Encyclia oxiphylla	II
P lantae	0 rchidales	0 rch idaceae	Encyc lia	pachyantha	Encyc la pachyantha	II
P lantae	0 rch ida les	0 rch idaceae	Encyc lia	papilio	Encyc lia papilio	II
P antae	0 rch idales	0 rch idaceae	Encyc lia	patens	Encyc la patens	II
P lantae	0 rch idales	0 rch idaceae	Encyc lia	punctifera	Encyc lia punctifera	II
P lantae	0 rch idales	0 rch idaceae	Encyc lia	pygm aea	Encyc lia pygm aea	II
P lantae	0 rch idales	0 rch idaceae	Encyc lia	randii	Encyclia randii	II
P lantae	0 rch idales	0 rch idaceae	Encyclia	regne lliana	Encyc lia regne lliana	II
P lantae	0 rch idales	0 rch idaceae	Encyclia	schm idtii	Encyclia schmidtii	II
P lantae	0 rchidales	0 rch idaceae	Encyc lia	se ide lii	Encyclia se ide lii	II
P lantae	0 rchidales	0 rch idaceae	Encyclia	sess ilifbra	Encyc la sessilifbra	II
P lantae	0 rch ida les	0 rch daceae	Encyc lia	spiritusanc tens is	Encyclia spiritusanctensis	II
P lantae	0 rchidales	0 rch idaceae	Encyc lia	suzanensis	Encyclia suzanensis	II
P lantae	0 rch ida les	0 rchidaceae	Encyc lia	tarum ana	Encyclia tarum ana	II
P lantae	0 rch idales	0 rchidaceae	Encyclia	tigrina	Encyc la tigrina	II
P lantae	0 rch idales	0 rchidaceae	Encyclia	tripartita	Encyc la tripartita	II
P lantae	0 rchidales	0 rchidaceae	Encyclia	unaensis	Encyclia unaensis	II
P lantae	0 rchidales	0 rch idaceae	Encyc lia	ve Ibzoana	Encyc la ve lbzoana	II

Table A3 List of CITES registered animals in Brazil (continued, 18/20)

					, ,	
P lantae	0 rch idales	0 rchidaceae	Encyc lia	vespa	Encyclia vespa	II
P lantae	0 rch idales	0 rch idaceae	Encyc lia	viridifbra	Encyclia viridifbra	II
P lantae	0 rch idales	0 rch idaceae	Encyclia	w idgren ii	Encyc la w idgren ii	II
P antae	0 rch idales	0 rch idaceae	Encyc lia	xerophytica	Encyc la xerophytica	II
P antae	0 rch idales	0 rch idaceae	Encyclia	xipheriodes	Encyclia xipheriodes	II
P lantae	0 rch idales	0 rch idaceae	Encyc lia	xuxiana	Encyclia xuxiana	II
P lantae	0 rch idales	0 rch idaceae	Encyclia	yauperyensis	Encyc lia yauperyens is	II
P lantae	0 rch idales	0 rch idaceae	Epidendrum	revolutum	Epidendrum revolutum	II
P lantae	0 rch idales	0 rch idaceae	Epidendrum	rigidum	Epidendrum rigidum	II
P lantae	0 rchidales	0 rchidaceae	Epidendrum	sm aragdin um	Epidendrum smaragdinum	II
P lantae	0 rch idales	0 rchidaceae	Eriopsis	b ibba	Eripps is b ibba	II
P antae	0 rchidales	0 rch idaceae	Gomesa	grac ilis		II
					G om e sa grac ilis	II
P lantae	0 rchidales	0 rchidaceae	Gongora	atropurpurea	Gongora atropurpurea	
P lantae	0 rchidales	0 rchidaceae	Gongora	bu fon ia	Gongora bufon ia	II
P lantae	0 rch idales	0 rchidaceae	Gongora	m acu ata	Gongora m acu ata	II
P lantae	0 rch idales	0 rch idaceae	Gongora	m hax	Gongora m nax	II
P antae	0 rch idales	0 rch idaceae	Gongora	n igrita	Gongora n grita	II
P lantae	0 rch idales	0 rch idaceae	Gongora	p b b chrom a	Gongora pe bchrom a	II
P lantae	0 rch idales	0 rch idaceae	Gongora	qu inquenerv is	Gongora quinquenervis	II
P lantae	0 rch idales	0 rch idaceae	Habenaria	fbrbunda	Habenaria fbrbunda	II
P lantae	0 rch idales	0 rch idaceae	Huntleya	m e leagris	Huntleya m e leagris	II
P antae	0 rch idales	0 rchidaceae	K oe llenste n ia	eburnea	K oe lenste n a eburnea	II
P antae	0 rchidales	0 rchidaceae	K oe llenste n ia	ke leriana	K oe lenste n a ke leriana	II
P antae	0 rch idales		Lae la		Lae la a borii	II
		0 rch idaceae		aborii		
P lantae	0 rchidales	0 rchidaceae	Lae lia	angereri	Lae la angereri	II
P lantae	0 rchidales	0 rchidaceae	Lae lia	bah iens is	Lae la bah iens is	II
P lantae	0 rchidales	0 rchidaceae	Lae lia	bum ensche in ii	Lae la blum ensche in ii	II
P lantae	0 rch idales	0 rch idaceae	Lae lia	brade i	Lae lia brade i	II
P antae	0 rch idales	0 rch idaceae	Lae lia	briegeri	Lae la briegeri	II
P lantae	0 rch idales	0 rch idaceae	Lae lia	cardin ii	Lae lia card in ii	II
P lantae	0 rch idales	0 rch idaceae	Lae lia	cattleyodes	Lae la cattleyodes	II
P lantae	0 rch idales	0 rch idaceae	Lae lia	cau escens	Lae la cau lescens	II
P lantae	0 rch idales	0 rch idaceae	Lae la	c innabarina	Lae la cinnabarna	II
P antae	0 rchidales	0 rchidaceae	Lae lia	c innam om ea	Lae la c innam om ea	II
P antae	0 rchidales	0 rch idaceae	Lae la	cow an ii	Lae la cowan ii	II
						II
P lantae	0 rchidales	0 rchidaceae	Lae lia	crispa	Lae la crispa	
P lantae	0 rchidales	0 rchidaceae	Lae lia	crispata	Lae la crispata	II
P lantae	0 rch idales	0 rchidaceae	Lae lia	crispilabia	Lae la crispilabia	II
P antae	0 rch idales	0 rch idaceae	Lae lia	dayana	Lae lia dayana	II
P lantae	0 rch idales	0 rch idaceae	Lae lia	duveenii	Lae la duveen ii	II
P antae	0 rch idales	0 rch idaceae	Lae lia	e legans	Lae la e legans	II
P lantae	0 rch idales	0 rch idaceae	Lae lia	endsfe dz ii	Lae lia endsfeldzii	II
P lantae	0 rch idales	0 rch idaceae	Lae lia	e sa bue ana	Laelia esa bueana	II
P lantae	0 rch idales	0 rch idaceae	Lae lia	espirito-santensi		II
P lantae	0 rch idales	0 rch idaceae	Lae lia	fide lens is	Lae lia fide lens is	II
P antae	0 rch idales	0 rchidaceae	Lae lia	flava	Lae la flava	II
P antae	0 rchidales	0 rch idaceae	Lae la	gardneri	Lae la gardneri	II
P antae	0 rchidales	0 rch idaceae	Lae la	ghillanyi	Lae la ghillanyi	II
						II
P lantae	0 rchidales	0 rchidaceae	Lae lia	g b e den iana	Lae la gbeden ana	
P lantae	0 rchidales	0 rchidaceae	Lae lia	go tto iana	Lae la gotto iana	II
P lantae	0 rch idales	0 rchidaceae	Lae lia	grac ilis	Lae lia grac ilis	II
P lantae	0 rch idales	0 rch idaceae	Lae lia	grandifbra	Lae lia grandifbra	II
P lantae	0 rch idales	0 rch idaceae	Lae lia	grandis	Lae lia grandis	II
P antae	0 rch idales	0 rch idaceae	Lae lia	harpophylla	Lae la harpophy la	II
P lantae	0 rch idales	0 rch idaceae	Lae lia	h ispidu la	Lae lia h ispidu la	II
P lantae	0 rch idales	0 rch idaceae	Lae lia	itam bana	Lae lia itam bana	II
P lantae	0 rch idales	0 rch idaceae	Lae lia	jongheana	Lae lia jongheana	I
P lantae	0 rch idales	0 rch idaceae	Lae lia	kautskyi	Lae la kautskyi	II
P antae	0 rchidales	0 rchidaceae	Lae lia	kettieana	Lae la kettieana	II
P antae	0 rchidales	0 rch idaceae	Lae la	liac ina	Lae la lilac na	II
P antae	0 rchidales	0 rch daceae	Lae la	liliputana	Lae la liliputana	II
	0 rchidales		Lae la	bbata	Lae la lilputaria	11
P lantae		0 rch idaceae				11
P lantae	0 rchidales	0 rchidaceae	Lae lia	bngipes	Lae la bng pes	II
P lantae	0 rchidales	0 rchidaceae	Lae lia	lucasiana	Lae la lucas ana	II
P lantae	0 rchidales	0 rchidaceae	Lae lia	lundii	Lae la Lindii	II
P lantae	0 rch ida les	0 rchidaceae	Lae lia	m antique irae	Lae la mantique irae	II
P lantae	0 rch ida les	0 rch idaceae	Lae lia	m illeri	Lae la milleri	II
P lantae	0 rch ida les	0 rch idaceae	Lae la	m ixta	Lae lia m ixta	II
P lantae	0 rch ida les	0 rch idaceae	Lae lia	pabstii	Lae la pabstii	II
P lantae	0 rch ida les	0 rch idaceae	Lae lia	perrin ii	Lae la perrin ii	II
P antae	0 rchidales	0 rchidaceae	Lae lia	pfisteri	Lae la pfisteri	ĬĬ
P antae	0 rchidales	0 rch idaceae	Lae la	praestans	Lae la praestans	II
	0 rch ida les				Lae la pum ila	II
Plantae		0 rchidaceae	Lae la	pum ila		II
Plantae	0 rch idales	0 rch idaceae	Lae lia	purpurata	Lae la purpurata	
P lantae	0 rchidales	0 rchidaceae	Lae lia	reginae	Lae la reginae	II
P lantae	0 rchidales	0 rchidaceae	Lae lia	sangu ibba	Lae lia sangu ibba	II
P lantae	0 rch idales	0 rch idaceae	Lae lia	sincorana	Lae la sincorana	II
		10 1. 11	II oo lio	l ana atab ilia	Lae la spectabilis	II
P antae	0 rch idales	0 rch idaceae	Lae lia	spectabilis		
P lantae P lantae	0 rch dales	0 rch daceae	Lae la	tenebrosa	Lae la tenebrosa	II

Table A3 List of CITES registered animals in Brazil (continued, 19/20)

				,		
P lantae	0 rch idales	0 rch daceae	Lae la	virens	Laelia virens	II
P lantae	0 rch idales	0 rch daceae	Lae lia	xanth na	Lae la xanth ina	II
P lantae	0 rch idales	0 rch daceae	Lepanthopsis	fbripecten	Lepanthops is floripecten	II
P antae	0 rch idales	0 rch daceae	Lepanthopsis	m e lanantha	Lepanthops is m e lanantha	II
P antae	0 rch idales	0 rch daceae	Leptotes	bicobr	Lepto tes bico br	II
P lantae	0 rch idales	0 rch daceae	Leptotes	pau lens is	Lepto tes pau lens is	II
P lantae	0 rch idales	0 rch daceae	Leptotes	tenu is	Lepto tes tenu is	II
	0 rch idales	0 rch daceae	Leptotes	unicobr	Lepto tes un ico br	II
	0 rch idales	0 rch idaceae	Lockhartia	iva inae	Lockhartia ivainae	II
	0 rch idales	0 rch idaceae	Lockhartia	lud bunda	Lockharta Lidbunda	II
	0 rch idales	0 rch daceae	Lycaste	m acrobu bon	Lycaste macrobu bon	II
	0 rch idales	0 rch idaceae	Lycaste	m acrophy la	Lycaste m acrophy la	II
		0 rch idaceae				II
	0 rchidales		M asde va Ilia	cuprea	M asdevallia cuprea	
	0 rchidales	0 rch idaceae	M asde va llia	curtipes	M asdevallia curtipes	II
	0 rchidales	0 rch daceae	M asde va Ilia	d isco idea	M asdevallia discoidea	II
P lantae	0 rch idales	0 rch daceae	M asde va Ilia	in frac ta	M asdevallia infracta	II
P lantae	0 rch idales	0 rch daceae	M asde va Ilia	m nuta	Masdevalliaminuta	II
P antae	0 rch idales	0 rch idaceae	M asdevallia	norae	M asdevallia norae	II
P lantae	0 rchidales	0 rch daceae	M asde va Ilia	obscurans	M asdevallia obscurans	II
P lantae	0 rch idales	0 rch daceae	M asde va Ilia	osc itans	M asdevallia oscitans	II
	0 rchidales	0 rch idaceae	M asde va llia	sprucei	M asdevallia spruce i	II
P lantae	0 rch idales	0 rch daceae	M asde va llia	vargasii	M asdevalla vargas ii	II
	0 rch idales	0 rch idaceae	M asde va lia	wendlandiana	M asdevallia vargas ii	II
P antae						
P antae	0 rch idales	0 rch idaceae	M iltonia	bnotii	Miltonia binotii	<u>II</u>
	0 rchidales	0 rchidaceae	M iltonia	buntii	Miltonia bluntii	II .
P lantae	0 rchidales	0 rch idaceae	M iltonia	castanea	Miltonia castanea	II
P lantae	0 rchidales	0 rch idaceae	Miltonia	c bw es ii	Miltonia c bwesii	II
P lantae	0 rch idales	0 rch idaceae	Miltonia	cogn aux ae	Miltonia cogniauxiae	II
P lantae	0 rch idales	0 rch daceae	Miltonia	festiva	Miltonia festiva	II
P lantae	0 rch idales	0 rch daceae	M iltonia	flava	Miltonia flava	II
P lantae	0 rch idales	0 rch daceae	Miltonia	flavescens	Miltonia flavescens	II
P lantae	0 rchidales	0 rch idaceae	Miltonia	lam arckeana	Miltonia lam arckeana	II
P lantae	0 rch idales	0 rch idaceae	M iltonia	eucogbssa	M iltonia eucogbssa	II
P lantae	0 rch idales	0 rch idaceae	M iltonia	odorata	M ilton ia odorata	II
P antae	0 rch idales	0 rch idaceae	M iltonia	regne lli	M iltonia regnelli	II
					ŭ	
P lantae	0 rch idales	0 rch idaceae	M iltonia	rosina	M iltonia rosina	<u>II</u>
P lantae	0 rchidales	0 rch idaceae	M iltonia	spec tab ilis	Miltonia spectabilis	II
	0 rch idales	0 rch idaceae	N idem a	otton is	N idem a otton is	II
P lantae	0 rch idales	0 rch daceae	0 ctomeria	carbcana	0 ctom eria cariocana	II
P antae	0 rch idales	0 rch daceae	0 nc idium	ansiferum	0 ncidium ansiferum	II
P antae	0 rch idales	0 rch idaceae	0 nc id ium	bifo lium	0 nc idium bifolium	II
P antae	0 rch idales	0 rch daceae	0 nc idium	c iliatum	0 nc idium c iliatum	II
P lantae	0 rch idales	0 rch daceae	0 nc idium	bngicornum	Oncidium bngicornum	II
P lantae	0 rchidales	0 rch idaceae	0 nc dium	phym atoch ilum	0 nc dum phymatoch ium	II
	0 rchidales	0 rch idaceae	Peristeria	cerna	Peristeria cerina	II
	0 rch idales	0 rch idaceae	Peristeria	guttata	Peristeria guttata	II
	0 rch idales	0 rch idaceae	Peristeria	pendu la		II I
P antae	0 rch idales	0 rch idaceae	Peristeria	serron iana		II
						I
	0 rchidales	0 rchidaceae	Phragm pedium	k b tzsch ianum	· · · · · · · · · · · · · · · · · · ·	1
P lantae	0 rchidales	0 rch idaceae	Phragm pedium	lind by yanum	Phragm pedium Indleyanum	<u> </u>
	0 rchidales	0 rch idaceae	Phragm pedium	sargentanum	· · · · · · · · · · · · · · · · · · ·	<u>I</u>
P lantae	0 rch idales	0 rch idaceae	Phragm pedium	vittatum	Phragm pedium vittatum	1
	0 rchidales	0 rch idaceae	Phym atidium	lim ae	Phymatidium limae	II
P lantae	0 rch idales	0 rch idaceae	Phym atidium	m icrophyllum	Phymatidium microphyllum	II
P antae	0 rchidales	0 rch idaceae	Peurothallis	githanginea	P eurothallis githanginea	II
P lantae	0 rch idales	0 rch idaceae	Peurothallis	hym enantha	P leurothallis hymenantha	II
P lantae	0 rch idales	0 rch daceae	Pleurothallis	jacarepaguaensis	P burothallis jacarepaguaensis	II
P lantae	0 rch idales	0 rch daceae	Pleurothallis	lichenoph ila	P eurothallis lichenophila	II
P antae	0 rchidales	0 rch idaceae	Ponera	striata	Ponera striata	II
P lantae	0 rch ida les	0 rch idaceae	Prescottia	o ligan tha	Prescottia o ligantha	II
	0 rch ida les	0 rch idaceae	Prescottia	plantaginea	Prescotta pantagnea	II I
	0 rch ida les	0 rch idaceae	P seudo la lia	corcovadensis	P seudo la la corcovadens is	II
	0 rch ida les	0 rch idaceae	Rauh ie la	silvana	Rauh ie la silvana	II
P antae		0 rch daceae		bifbra	Rodriguezia bifbra	II
	0 rch idales		Rodriguezia		Ü	
	0 rchidales	0 rchidaceae	Rodriguezia	candida	Rodriguezia candida	II .
	0 rchidales	0 rch daceae	Rodriguezia	carnea	Rodriguezia carnea	<u>II</u>
	0 rchidales	0 rch idaceae	Rodriguezia	decora	Rodriguezia decora	II
P lantae		I () wala idaa aa	Rodriguezia	lanceo lata	Rodriguezia lanceo lata	II
	0 rch ida les	0 rch daceae			S caphyg b ttis sigm o idea	II
P lantae		0 rch daceae	Scaphygbttis	sigmoidea	3 Capityg D LLB 8 gill O Llea	
P lantae	0 rch ida les	0 rch daceae 0 rch daceae	Scaphygbttis Schomburgkia	s gm o dea crispa	Schom burgkia crispa	II
P lantae P lantae	0 rchidales 0 rchidales	0 rch idaceae	Scaphygbttis		Schom burgk a crispa	
P lantae P lantae P lantae P lantae	0 rch da es 0 rch da es 0 rch da es 0 rch da es	0 rch daceae 0 rch daceae 0 rch daceae	Scaphyg bttis Schom burgkia Schom burgkia	crispa	S chom burgk a crispa S chom burgk a m arginata	II
P Intae P Intae P Intae P Intae P Intae P Intae	0 rch da es 0 rch da es 0 rch da es 0 rch da es 0 rch da es	0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae	Scaphyg bttis Schom burgkia Schom burgkia Sigm atostalix	crispa m arginata am azon ca	Schom burgkia crispa Schom burgkia m arginata Sigm atostalix am azonica	II II II
P antae P antae P antae P antae P antae P antae P antae	0 rch da bs 0 rch da bs 0 rch da bs 0 rch da bs 0 rch da bs 0 rch da bs 0 rch da bs	0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae	S caphyg btts S chom burgk a S chom burgk a S igm atosta lix S ophron ite lla	crispa m arginata am azon ba vio lacea	Schom burgka crispa Schom burgka m arginata Sigm atostalik am azonica Sophronite lla violacea	II II II
P antae P antae P antae P antae P antae P antae P antae P antae P antae	0 rch da bs 0 rch da bs 0 rch da bs 0 rch da bs 0 rch da bs 0 rch da bs 0 rch da bs 0 rch da bs	0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae	S caphyg btts S chom burgk ia S chom burgk ia S igm atostalik S ophron ite lla S ophron itis	crispa m arginata am azonica vio acea acuensis	Schom burgk a crispa Schom burgk a m arginata Sigm atostalik am azonica Sophronite la violacea Sophronitis acuensis	II II II II
P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae	0 rch da bs 0 rch da bs 0 rch da bs 0 rch da bs 0 rch da bs 0 rch da bs 0 rch da bs 0 rch da bs 0 rch da bs 0 rch da bs	O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae	Scaphygbttis Schom burgkia Schom burgkia Sigm atostalik Sophron ite lla Sophron itis Sophron itis	crispa m arginata am azon ida vio lacea acuens is bico br	Schom burgka crispa Schom burgka m arginata Sigm atosta iki am azon ba Sophron ite la vio lacea Sophron itis acuensis Sophron itis bbo br	II II II II II
P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae	0 rch da bs 0 rch da bs 0 rch da bs 0 rch da bs 0 rch da bs 0 rch da bs 0 rch da bs 0 rch da bs 0 rch da bs 0 rch da bs	0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae	Scaphygbttis Schom burgkia Schom burgkia Schom burgkia Sigm atostalix Sophron ite lla Sophron itis Sophron itis	crispa m arginata am azon ba vb acea acuens is bbc br cernua	Schom burgk a crispa Schom burgk a m arginata Sigm atosta lik am azon ba Sophron ite la vio Acea Sophron itis acuensis Sophron itis bbo br Sophron itis cernua	II II II II II II II II II II
P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae P antae	0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs	O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae	Scaphygbttis Schom burgkia Schom burgkia Schom burgkia Sigm atosta lik Sophron it lia Sophron it is Sophron it is Sophron it is Sophron it is	crispa m arginata am azon ba vo lacea acuens is bico br cernua coccinea	Schom burgk a crispa Schom burgk a m arginata Sigm atostalik am azoniba Sophronite la vib acea Sophronitis acuensis Sophronitis bibo br Sophronitis cemua Sophronitis coccinea	II II II II II II II II II II II
P antae P antae P bntae P bntae P bntae P antae	O rch dabs O rch dabs O rch dabs O rch dabs O rch dabs O rch dabs O rch dabs O rch dabs O rch dabs O rch dabs O rch dabs O rch dabs O rch dabs O rch dabs O rch dabs O rch dabs	0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae 0 rch daceae	Scaphyg bttis Schom burgk ia Schom burgk ia Schom burgk ia Schom burgk ia Schom it is Sophron it is Sophron it is Sophron it is Sophron it is Sophron it is	crispa m arginata am azon ba vo lacea acuensis bico br cernua coccinea m antique rae	Schom burgka crispa Schom burgka m arginata Sigm atostalik am azon ba Sophronite la vib acea Sophronitis acuensis Sophronitis bibo br Sophronitis cernua Sophronitis coccinea Sophronitis m antique irae	
P antae P antae P bntae P bntae P bntae P antae	0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs 0 rch idabs	O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae O rch daceae	Scaphygbttis Schom burgkia Schom burgkia Schom burgkia Sigm atosta lik Sophron it lia Sophron it is Sophron it is Sophron it is Sophron it is	crispa m arginata am azon ba vo lacea acuens is bico br cernua coccinea	Schom burgk a crispa Schom burgk a m arginata Sigm atostalik am azoniba Sophronite la vib acea Sophronitis acuensis Sophronitis bibo br Sophronitis cemua Sophronitis coccinea	II II II II II II II II II II II

Table A3 List of CITES registered animals in Brazil (continued, 20/20)

P antae	0 rchidales	0 rch daceae	S ophron it is	w ittigiana	S ophron it is w ittigiana	II
P lantae	0 rchidales	0 rch idaceae	Stanhopea	candida .	S tanhopea candida	II
P lantae	0 rchidales	0 rch idaceae	Stanhopea	grandifbra	S tanhopea grandifora	II
P lantae	0 rchidales	0 rch idaceae	Stanhopea	graveo lens	S tanhopea graveo ens	II
P lantae	0 rchidales	0 rch idaceae	Stanhopea	in s ign is	Stanhopea insign is	II
P lantae	0 rchidales	0 rch idaceae	Stanhopea	ocu lata	S tanhopea ocu lata	II
P lantae	0 rchidales	0 rch idaceae	Stanhopea	tigrina	Stanhopea tigrina	II
P lantae	0 rchidales	0 rch idaceae	Stanhopea	w arszew icziana	S tanhopea warszew icz iana	II
P lantae	0 rchidales	0 rch idaceae	Trichopilia	axa	Trichopilia laxa	II
P lantae	0 rchidales	0 rch idaceae	Trigon idium	acum inatum	Trigonidium acum natum	II
P lantae	0 rchidales	0 rch idaceae	Trigon idium	turbinatum	Trigonidum turbinatum	II
P lantae	0 rchidales	0 rch idaceae	Triphora	surnamensis	Triphora surinam ensis	II
P lantae	0 rch idales	0 rch idaceae	W u Isch bege lia	aphylla	W u lisch laege lia aphy lla	II
P lantae	0 rchidales	0 rch idaceae	W u lisch bege lia	cabarata	W u lisch bege lia ca barata	II
P lantae	0 rchidales	0 rch idaceae	Zygostates	ade ra boana	Zygostates adera boana	II
P lantae	0 rchidales	0 rch idaceae	Zygostates	a llen iana	Zygostates allen lana	II
P lantae	Cycadales	Zam iaceae	Zam ia	am azonum	Zam ia am azonum	II
P lantae	Cycadales	Zam iaceae	Zam ia	eco inte i	Zam ia lecointei	II
P lantae	Cycadales	Zam iaceae	Zam ia	ulei	Zamia u le i	II
P antae	Sapindales	Zygophyllaceae	Buhesia	sam iento i	Buhesia samnientoi	II ,

Appendix 4 List of CMS-listed animals in Brazil

Table A4 List of CMS-listed animals in Brazil (1/4)

Class	Order	Family	Genus	ScientificN Listing
Mammalia	C am ivora	0 tariidae	A rctocepha lus	A rotocephalus al II
Mammalia 	C arn ivora	0 tariidae	0 taria	0 taria flavescen II
Mammalia	Cetacea	B a la enopteridae	M egaptera	M egaptera novaeang liae
Mammalia	Cetacea	B a la enopteridae	M egaptera	M egaptera novae I
Mammalia	Cetacea	B a laenopteridae	M egaptera	M egaptera novaeang liae
Mammalia	Cetacea	Delphinidae	C epha lorhynchus	C epha brhynchus II
Mammalia Mammalia	C etacea C etacea	D e lph in idae D e lph in idae	G lob icepha la G lob icepha la	G lob icepha la m e las G lob icepha la m e las
M am m a lia	Cetacea	Delphinidae Delphinidae	G lob icepha la	G lob icepha la m e las
Mammalia	Cetacea	Delphinidae Delphinidae	G lob icepha la	G lob icepha la m e II
M am m a lia	Cetacea	D e lph in idae	G lob icepha la	G lob icepha la m e las
M am m a lia	Cetacea	D e lph in idae	G ram pus	G ram pus griseus
M am m a lia	Cetacea	Delphinidae	G ram pus	Gram pus griseus
Mammalia	Cetacea	Delphinidae	G ram pus	Gram pus griseus
M am m a lia	Cetacea	Delphinidae	G ram pus	Gram pus griseus II
M am m a lia	Cetacea	D e lph in idae	G ram pus	Gram pus griseus
M am m a lia	Cetacea	D e lph in idae	Lagenode lph is	Lagenode lph is ho II
M am m a lia	Cetacea	D e lph in idae	Lagenode lph is	Lagenode phis hose i
M am m a lia	Cetacea	D e lph in idae	Lagenode lph is	Lagenode phis hose i
M am m a lia	Cetacea	D e lph in idae	0 rc inus	0 rc inus orca
M am m a lia	Cetacea	D e lph in idae	0 rc inus	0 rc inus orca
Mammalia	Cetacea	D e lph in idae	0 rc inus	0 rc inus orca II
M am m a lia	Cetacea	D e lph in idae	0 rc inus	0 rc inus orca
Mammalia	Cetacea	D e lph in idae	0 rc inus	0 rc inus orca
M am m a lia	Cetacea	D e lph in idae	Sotalia	Sotalia fluviatilis II
Mammalia	Cetacea	D e lph in idae	Sota lia	Sota lia guianens II
M am m a lia	C etacea	D e lph in idae	S tene lla	Stene la attenua II
M am m a lia	C etacea	D e lph in idae	S tene lla	Stene lla attenuata
M am m a lia	C etacea	D e lph in idae	S tene lla	S tene lla attenuata
M am m a lia	Cetacea	D e lph in idae	S tene lla	Stene Ila c lym ene
M am m a lia	Cetacea	D e lph in idae	S tene lla	Stene lla clym ene II
M am m a lia	Cetacea	D e lph in idae	S tene lla	Stene lla coeru leoa lba
M am m a lia	Cetacea	D e lph in idae	S tene lla	Stene la coerule II
Mammalia	C etacea	D e lph in idae	S tene I la	Stene lla coeru leoa lba
Mammalia	C etacea	D e lph in idae	S tene Ila	Stene lla coeru leoa lba
M am m a lia	Cetacea	Delphinidae	S tene IIa	Stene lla coeru leoa ba
Mammalia	Cetacea	D e lph in idae	S tene IIa	Stene lla long iros tris
Mammalia	Cetacea	Delphinidae	S tene IIa	Stene la longiros II
M am m a lia	Cetacea	D e lph in idae	S tene Ila	Stene lla long irostris
Mammalia	Cetacea	Iniidae	In ia	In ia geoffrens is II
Mammalia	Cetacea	In iidae	Pontoporia	Pontoporia blain I/II
Mammalia	Cetacea	Physeteridae	Physeter	Physeter m acrocephalus
Mammalia	Cetacea	Physeteridae	Physeter	Physeter m acrocephalus
Mammalia	C etacea C h iroptera	Physeteridae	Physeter	Physeter m acrod I/II
M am m a lia M am m a lia	_	M o loss idae Trichech idae	Tadarida Trichechus	Tadarida brasilie I Trichechus inung II
M am m a lia	S iren ia	Trichechidae	Trichechus	Trichechus mana I/ II
	Anseriform es	Anatidae	A m azonetta	Am azonetta bras II
A ves A ves	Anseriform es	Anatidae	Anas	Anas cyanoptera II
Aves	Anseriform es	Anatidae	Anas	Anas discors II
Aves	Anseriform es	Anatidae	Anas	Anas flavirostris II
Aves	Anseriform es	Anatidae	Anas	Anas sibilatrix II
Aves	Anseriform es	Anatidae	D endrocygna	D endrocygna b ico br
Aves	A nseriform es	Anatidae	D endrocygna	D endrocygna b ic II
Aves	Anseriform es	Anatidae	D endrocygna	Dendrocygna vid II
Aves	Anseriform es	Anatidae	D endrocygna	D endrocygna v iduata
	A nseriform es	Anatidae	N etta	Netta erythropht II
Aves Aves	Anseriform es	Anatidae	N etta	Netta erythrophthalma

Table A4 List of CMS-listed animals in Brazil (continued, 2/4)

AVAS	Charadriiform es	Charadriidae	Charadrius	Charadrius falkla II
A ves A ves	Charadriifom es		Charadrius	Charadrius mode II
Aves	Charadriifom es		Charadrius	Charadrius iii ode II
	Charadriifom es		Charadrius Charadrius	Charadrius vocifi II
A ves A ves	Charadriifom es		C haradrius C haradrius	Charadrius wilso II
Aves	Charadriifom es		0 reopholus	O reopholus rufic II
Aves	Charadriifom es		P luv ia lis	Pluvialis dom in id II
Aves	Charadriifom es		Pluvialis Pluvialis	Pluvialis dominiqui Pluvialis squatarola
	Charadriiform es		Pluvialis Pluvialis	Pluvialis squatar II
A ves A ves	Charadriifom es		V ane llus	Vanellus chilens II
Aves	Charadriifom es		Larus	Larus atlanticus I
	Charadriifom es		S tema	Stema dougallii
A ves A ves	Charadriifom es		Stema	Stema dougallii II
Aves	Charadriifom es		Stema	Stema paradisae II
	Charadriifom es		Stema	Stema paradisaea
A ves A ves		R ecurv irostridae	H in antopus	H im antopus m ex II
	Charadriifom es			
Aves	Charadriiform es		A renaria	A renaria interpres
A ves	Charadriifom es		A renaria Bartram ia	A renaria interpre II Bartram ia longic II
A ves				
A ves	Charadriiform es Charadriiform es		Calidris Calidris	Calidris alba II
A ves				
A ves	Charadriiform es		Calidris Calidris	
A ves	Charadriiform es		Calidris Calidris	Calidris canutus II Calidris canutus
Aves	Charadriiform es			
Aves	Charadriiform es		Calidris	Calidris canutus I/II
Aves	Charadriiform es		Calidris	Calidris fuscico III
Aves	Charadriiform es		Calidris	Calidris melanoti II
Aves	Charadriiform es		Calidris	Calidris m inutilla II
Aves	Charadriiform es		Calidris	Calidris pusilla II
Aves	Charadriiform es		C atoptrophorus	Catoptrophorus II
Aves	Charadriiform es		Gallinago	Gallinago paragu II
Aves	Charadriiform es		Lim nodrom us	Lim nodrom us gri II
Aves	Charadriiform es		Lim osa	Limosa haemast II
Aves	Charadriiform es		Limosa	Limosa lapponica II
Aves	Charadriiform es		L in osa	Lim osa lapponica
Aves	Charadriiform es		M icropa lam a	M icropalam a h im II
Aves	Charadriiform es		Num en ius	Num en ius borea I/II
Aves	Charadriiform es		Num en ius	Num en ius borealis
Aves	Charadriiform es		Num en ius	Num en ius phaeopus
Aves	Charadriiform es		Num en ius	Num en ius phaeo II
Aves	Charadriiform es		Pha laropus	Phalaropus fulicarius
Aves	Charadriiform es	•	Pha laropus	Phalaropus fulica II
Aves	Charadriiform es		Philom achus	Philom achus pugnax
Aves	Charadriiform es		Philom achus	Philom achus pug II
Aves	Charadriiform es	S co lopac idae	S teganopus	Steganopus trico II
Aves	Charadriiform es		Tringa	Tringa flavipes II
Aves	Charadriiform es		Tringa	Tringa m acularia II
Aves	Charadriiform es		Tringa	Tringa m e lano leu II
Aves	Charadriiform es		Tringa	Tringa solitaria II
Aves	Charadriifom es		Tryng ites	Tryngites subruficollis
Aves	Charadriiform es		Tryngites	Tryngites subruf I/II
Aves	C icon i iform es	Thresk iorn ith idae	P la ta lea	Platalea leucorodia
Aves	C icon i iform es	Thresk iorn ith idae	P la ta lea	Platalea leucorod II
Aves	Falconiformes	Cathartidae	Cathartes	Cathartes aura II
Aves	Falconiformes	Cathartidae	Coragyps	Coragyps atratus II
Aves		Falconidae	Falco	Falco peregrinus II
Aves		Falconidae	Falco	Falco peregrinus
Aves	Falconiformes	Pand ion idae	Pand ion	Pandion haliaetus
Aves	Falconiformes	Pand ion idae	Pand ion	Pandion ha liaetu II
Aves	Passeriform es	Emberizidae	Sporophila	Sporophila cinna I/II

Table A4 List of CMS-listed animals in Brazil (continued, 3/4)

Δνρς	Passeriform es	Em berizidae	Sporophila	Sporophila cinnam om ea
A ves A ves		Em berizidae	Sporophila	Sporophila hypochrom a
Aves	Passeriform es	Em berizidae	Sporophila	Sporophila hypod I/II
Aves	Passeriform es	Em berizidae	Sporophila	Sporophila nypod / II
Aves		Em berizidae	Sporophila	Sporophila palus I/II
Aves		Em berizidae	Sporophila	Sporophila ruficollis
Aves		Em berizidae	Sporophila	Sporophila rufico II
	Passeriform es	Em berizidae	Sporophila	Sporophila zelichi
Aves		Em berizidae	Sporophila	Sporophila zelich I/II
Aves		M usc icap idae	Catharus	Catharus fusces II
A ves A ves		M usc icap idae	Catharus	Catharus minimu II
Aves		M usc icap idae	Catharus	Catharus ustulat II
Aves	Passeriform es	M usc icap idae	Turdus	Turdus am auroch II
Aves		Tyrannidae	A lectrurus	A lectrurus risora I/II
Aves		Tyrannidae	A lectrurus	A lectrurus risora
Aves	Passeriform es	Tyrannidae	A lectrurus	A lectrurus trico l I/II
		Tyrannidae	A lectrurus	
A ves A ves		Tyrannidae	Polystictus	A lectrurus tricolor Polystictus pectoralis pectoralis
		Tyrannidae	Polystictus Polystictus	Polystictus pectra II
Aves				D iom edea chrysd II
Aves	Procellariiformes		D iom edea	
Aves	Procellariiformes Procellariiformes		D iom edea D iom edea	D iom edea epom d II D iom edea epom ophora
Aves				, ,
Aves	Proce llariiform es		D iom edea D iom edea	D iom edea exular II D iom edea exulans
Aves	Procellariiformes			
Aves	Procellariiformes		Phoebetria Phoebetria	Phoebetria fusca II Phoebetria fusca
Aves	Procellariiformes Procellariiformes		Phoebetria	Phoebetria tusca Phoebetria palpebrata
Aves				
Aves	Procellariiformes		Phoebetria The becambe	Phoebetria palpe II Thalassarche cauta
Aves	Procellariiformes Procellariiformes		Tha lassarche	Thalassarche cal II
A ves A ves	Procellariiform es		Tha lassarche Tha lassarche	Thalassarche ch II
			Thalassarche	
Aves	<u>Procellariiformes</u> Procellariiformes		Tha lassarche	Tha lassarche ch lororhynchos Tha lassarche m e II
A ves A ves	Procellariiform es		Tha lassarche	Tha lassarche m e lanophris
Aves	Procellariiform es		M acronectes	M acronectes giganteus
Aves	Procellariiform es		M acronectes	M acronectes gig II
	Procellariiform es		M acronectes	M acronectes g g 11
A ves	Procellariiform es		M acronectes	M acronectes hall II
Aves	Procellariiform es		Proce llaria	Proce llaria aegu inoctia lis
Aves	Procellariiform es		Proce llaria	Procellaria aegu III
Aves	Procellariiform es		Proce llaria	Procellaria aequi II
			Procellaria	Procellaria cinerea
A ves A ves	Procellariiformes Procellariiformes	Proce la ridae	Proce llaria	Procellaria conspicillata
Aves	Procellariiform es	Proce laridae	Proce llaria	Procellaria constill
R eptilia		C he lon iidae	C aretta	Caretta caretta
Reptilia			Caretta	Caretta caretta I/II
R eptilia		C he lon iidae C he lon iidae	Caretta	Caretta caretta
R eptilia	Testud inata	C he lon iidae	C he lon ia	Che lon ia m ydas
R eptilia		C he lon iidae	C he lon ia	Che lon ia m ydas
R eptilia				
R eptilia R eptilia		Che lon iidae	Chelonia Eretmochelys	Che lon ia m ydas [/ II
R eptilia	Testudinata Testudinata	C he lon iidae C he lon iidae	Eretmochelys Eretmochelys	Eretmochelys imbricata Eretmochelys imbricata
R eptilia	Testudinata	C he bn iidae	E retin oche lys	Eretmochelys in I/II
Reptilia			Lep idoche lys	Lepidochelys oli I/II
R eptilia	Testudinata Testudinata	C he lon iidae C he lon iidae	Lep doche lys	Lepidochelys olivacea
Reptilia		C he lon iidae	Lep doche lys	Lepidochelys olivacea
Reptilia		D em oche ly idae	-	Dem ochelys con I/II
R eptilia	Testudinata	D em oche ly idae	Demochelys Demochelys	Demi oche vs coriacea
			•	,
R eptilia		Dem oche ly idae	Dem ochelys	Dem ochelys coriacea
Reptilia	Testud inata	Podocnem id idae	Podocnem is	Podocnem is expa I/II

Table A4 List of CMS-listed animals in Brazil (continued, 4/4)

E lasm obranch ii	Lam n iform es	C etorh in idae	C etorh inus	Cetorhinus maximus
E lasm obranch ii	Lam n iform es	C etorh in idae	Cetorhinus	Cetorhinus maxil I/II
E lasm obranch ii	Lam n iform es	Lamnidae	Carcharodon	Carcharodon car I/II
E lasm obranch ii	Lam n iform es	Lamnidae	Carcharodon	Carcharodon carcharias
E lasm obranch ii	Lam n iform es	Lamnidae	Isurus	Isurus oxyrinchu II
E lasm obranch ii	Lam n iform es	Lamnidae	Isurus	Isurus oxyrinchus
E lasm obranch ii	Lam n iform es	Lamnidae	Isurus	Isurus paucus II
E lasm obranch ii	Lam n iform es	Lamnidae	Isurus	Isurus paucus
E lasm obranch ii	Lam n iform es	Lamnidae	Lam na	Lam na nasus II
E lasm obranch ii		Lamnidae	Lam na	Lam na nasus
E lasm obranch ii	0 rectolobiformes		Rhincodon	Rhincodon typus II
E lasm obranch ii	0 rectolobiformes	Rhincodontidae	Rhincodon	Rhincodon typus
Insecta	Lep idoptera	Nym pha lidae	Danaus	Danaus plexippu II

Appendix 5 Protected Areas in Brazil

Table A5 List of Protected Area in Brazil (1/25)

name	orignal_name (Portuguese)	Designation
Lago P ratuba	Reserva B o A gra do Lago P ratuba	B b bgcalReserve
R b Trom betas	Reserva B io A 3gica do R io Trom betas	B b bgicalReserve
Jarã °	Reserva B io K 3gica do Jaru	B b bgicalReserve
A to I das Rocas	Reserva B is Ñ 3gica A to I das Rocas	B b bgicalReserve
Sooretama Una	Reserva B b à 'gca de Sooretam a Reserva B b à 'gca de Una	B b bgcalReserve B b bgcalReserve
Poã§o das Antas	Reserva B b A gica de Ona Reserva B b A gica de PoA § o das Antas	B b bgcalReserve
CÃ 3rrego do Veado	Reserva B b A g ca de P d A g o das Arras	B b bgcalReserve
Serra Negra	Reserva B b A gica de Serra Negra	B b bgcalReserve
Jaã°	Parque Nacionaldo Jaãº	National Park
P ico da Neblina	Parque Nacional do Pico da Neblina	NationalPark
Am azà ´n ia	Parque Nacionalda Amazã ínia	NationalPark
Pacaà is Novos	Parque Nacional de Pacañ is Novos	NationalPark
Cabo O range	Parque Nacional do Cabo O range	NationalPark
A ragua ia	Parque Nacionaldo Araguaia	NationalPark
Chapada dos Veadeiros	Parque Nacionalda Chapada dos Veadeiros	NationalPark
Iguaà § u	Parque Nacionaldo Iguaà § u	NationalPark
Lenã § ã ³is M aranhenses	Parque Nacionaldos Lenã § o is Maranhenses	National Park
Em as	Parque Nacionaldas Em as	National Park
Serra da Capivara	Parque Nacionalda Serra da Capivara	National Park
S erra da Canastra	Parque Nacionalda Serra da Canastra	National Park
São Joaquin	Parque Nacional de São Joaquim	NationalPark
B ras ilia	Parque Nacional de Brasã – lia	National Park
Monte Pascoal	Parque Nacionaldo Monte Pascoal	National Park
Caparaà 3	Parque Nacional de Caparao	NationalPark
Itatiaia	Parque Nacional Itatia ia	National P ark
A parados da Serra	Parque Nacional de Aparados da Serra	NationalPark
Serra dos à ºgãos	Parque Nacional da Serra dos 0 rgãos	NationalPark
Sete Cidades	Parque Nacional de Sete Cidades	National Park
T ijuca	Parque Nacional da Tijuca	NationalPark
U ba ara	Parque Nacional de Ubajara	NationalPark
Serra da Bocaina	Parque Nacional da Serra da Bocaina	National Park
Augusto Ruschi	Reserva B is A ³ gica Augusto Ruschi	B b bgbalReserve
Anavihanas	Parque Nacional de Anavihanas	National Park
Aracuri-Esmera da	Estação Ecoógica de Aracuri-esmera bla	Eco bg ical Station
Iquà ª	Estaà § ão Eco à ³gica de Iquà ª	Eco bgical Station
M aracà i	Estação Ecoógica de Maracà i	Eco bgical Station
Maracã ⊢Jpbca	Estaà § ão Eco à gica de Maracà j J pioca	Eco bgical Station
Taiamã	Estação Ecoógica de Taiamã	Eco bgical Station
Uruçui-Una	Estaà § ão Eco à ³gica de Uruà § uà — una	Eco bgical Station
R b Acre	Estaà § ão Eco à ³gica R is A cre	Eco bgical Station
Pantana IM atogrossense	Parque Nacionaldo PantanalMatogrossense	NationalPark
R b Doce	Parque Estadual do R io doce	S tate P ark
V ila V e ha	V ia V e ha	S tate P ark
Jari	Estaà § à £ o Eco Á ³gica do Jari	Eco bgical Station
Paub de Faria	Estaà § ão Eco à ³gica de Pau b De Faria	Eco bgical Station
A tto do R be ira	Parque EstadualTurÃ-stico do Alto do Ribeira	State Park
Ara	Parque Estadual da A ra	State Park
Caetetus	Estaà § ão Eco à gica dos Caetetus	Eco bgical Station
Campos do Jordà £o	Parque Estadual de Campos do Jordão	State Park
Carbs Bote ho	Parque Estadual Carbs Bote ho	State Park
Iha Anch eta Ihabe a	Parque Estadual da Iha Anchieta Parque Estadual de Ihabe la	S tate Park S tate Park
Thade a Iha do Cardoso	Iha do Cardoso	State Park
Jacupiranga	Jacupiranga	State Park
Jacup ranga Jaraguà i	Parque Estadualdo Jaraguà i	State Park
Serra do Mar	Parque Estadual do Saragua I	State Park
V assununga	Parque Estadual de Vassununga	State Park
Cantare ira	Cantare ira	State Park
Itapeti	Estaà § ão Eco à ³gica de Itapeti	Eco bgical Station
Seridà 3	Estaà § ão Eco à 'gica do Seridà '	Eco bgical Station
CaracaraÃ-	Estaà § ão Eco à ³gica de Caracaraà –	Eco bgical Station
Serra das Araras	Parque Estadua I Serra das Araras	S tate P ark
Guaporé	Reserva B io fi 3 gica do Guaporã o	B b bgbalReserve
Abufari	Reserva B ip à °gica do Abufari	B b bgbalReserve
Tap irapà ©	Reserva B io Ña "gica do Tapirapà ©	B b bgcalReserve
Saltinho	Reserva B io A 'gica de Saltinho	B b bgcalReserve
Guaraqueç aba	à rea de Proteà § ão Ambienta ID e Guaraqueà § aba	Environm ental Protection Area
Tain	Estaà § ão Eco à gica do Tain	Eco bgical Station
Combobs	Reserva B b A giza de Combo bs	B b bgcalReserve
M irador	M rador	S tate P ark
Gurupi	Reserva B io A ³ gica do Gurupi	B b bgcalReserve
Parque do Tum ucum aque	Parque do Tum ucum aque	Indigenous A rea
Tapa à ³s	F bresta Nac bnalde Tapa à ³s	NationalForest

Source: Explore Protected Areas, http://protectedplanet.net/

Table A5 List of Protected Area in Brazil (continued, 2/25)

0 7 :	International description 70	IN attack IF and at
Caxiuanà i	F bresta Nacional de Caxiuan A £	National Forest
Trà °s Barras Caà § ador	F bresta Nacional de Trðs Barras F bresta Nacional de Caç ador	NationalForest NationalForest
	F bresta Nacional de Carigia dor F bresta Nacional de Sãto Francisco De Paula	NationalForest
Cane la	F bresta Nacional de Cane la	NationalForest
Passo Fundo	F bresta Nac bnalde Passo Fundo	NationalForest
Jam ari	F bresta Nacional do Jamari	NationalForest
Manguezais da Foz do Rio	À rea de Re levante Interesse Eco À "gica Manguezais da Foz do R io	
M am anguape	M am anguape	A rea of 0 utstanding Eco bgical Interest
Carià ³s	Estaà § ão Eco à ³gica de Carià ³s	Eco bg cal Station
P irapitinga	Estaà § ão Eco à gica de Pirapitinga	Eco bgical Station
NiquÃi	Estaà § ão Eco à ³gica de Niqu à i	Eco bgical Station
Juam ⊢Japurà j	EstaçãoEcoógica Juam i⊢japurà į	Eco bgical Station
Raso da Catarina	Estaà § à £ o Eco à ¹gica Raso da Catarina	Eco bgicalS tation
Iha dos Lobos	Refugio de V da S ilvestre Iha dos Lobos	W iblife Refuge
JutaÃSolmoes	Estaà § ãο Eco à ³gica de Jutaà — so lim Ãμes	Eco bgical Station
A iuaba Iguaç u Nationa IP ark	Estaà § à £ o Eco à ³gica de A iuaba Parc nationald Iguaà § u	Eco bg cal S tation World Heritage S ite
Pedra Azul	Pedra Azul	S tate Park
Duas Bocas	Duas Bocas	State Bib gical Reserve
M estre à varo	M estre à varo	State Environmental Protection Area
Forno Grande	Formo Grande	State Park
bitipoca	bitpoca	State Park
Itaco bm i	Parque Estadual do Itaco bm i	State Park
G ra jað	Grajað	S tate Park
Parati-M rm	Parat⊢M rim	Indigenous A rea
A raras	Reserva B b 🖟 gba de Araras	B b bgbalReserve
Pedra Branca	Pedra Branca	S tate P ark
Desengano	Parque Estadual do Desengano	State Park
<u>Ibicatu</u>	bicatu	S tate Park
Figue ira	Figue ira	State Forest Reserve
Ripida 0 nça	R io da 0 nà § a	State Park
Campinhos	Campinhos	State Park
Monge	V ia R isa do Espirito Santo Monge	S tate Park S tate Park
P nhão	monge Pinhã£o	State Forest Reserve
C axam bu	Caxam bu	State Park
Laurã iceas	Laurã iceas	State Park
Serra Furada	Serra Furada	S tate P ark
Cane la Preta	Cane a Preta	State B b bgcalReserve
S assafrà is	S assafrà is	S tate B b bgcalReserve
Serra do Tabuleiro	Serra do Tabu le iro	S tate P ark
Esp in iho	Espin iho	State Park
Ib irapu ità €	Ib irapu ità €	State B b bgicalReserve
Espigà £o A lto	Espigà £o A Ito	S tate P ark
D e Ita do JacuÃ−	De Ita do Jacuã –	State Park
Turvo	Turvo	State Park
Cam aquã	C am aquà €	S tate Park
Caracol	Caracol	State Park
Ibitirà i	btrà	State Park
Mato Grande Podocarpus	M ato G rande P odocarpus	S tate B b bg balReserve S tate Park
Tainhas	Tainhas	S tate Park
	Ãrea de Proteção AmbientalDe Petrà polis	Environmental Protection Area
Piaçabuçu	à rea de Proteà § à £ o Am bienta ID e Piaà § abuà § u	Environmental Protection Area
Serra da Mantique ra	Ãrea de Proteção AmbientalSerra da Mantiqueira	Environmental Protection Area
Guaraqueç aba	Estaà § ão Eco à ³gica de Guaraqueà § aba	Eco bgical Station
Tupinam bà is	Estaà § ão Eco à gica de Tupinam bà is	Eco bg cal S tation
Tupiniquins	Estação Ecoógica dos Tupiniquins	Eco bgical Station
CÃ 3rrego Grande	Reserva B is A 3gisa do CA 3rego Grande	B b bg balR eserve
Tinguà i	Reserva B io 🖟 ³gica do Tingu 🖟 i	B b bgcalReserve
Santa Isabel	Reserva Bio Ñigica de Santa Isabel	B b bg calReserve
Grande Sertão Veredas	Parque Nacional Grande Sertã £ o Veredas	NationalPark
	Parque Nacionalda Chapada dos Guimarães	NationalPark
Superagüi	Parque Nacionaldo Superagui	National Park
Serra do Divisor	Parque Nacional da Serra do Divisor	National Park
A guaà –	Aguaà -	State B b bgical Reserve
à guas Em endadas	Estaà § ão Eco à 'gica de à guas Em endadas	Eco bgical Station
Praia do Sul Serra Geral	Praia do Su I Serra Geral	S tate B b bg calReserve S tate B b bg calReserve
Bauru	Estaà § ão Eco à ³gica de Bauru	Ecobgical Station
B rac inho	Brac inho	S tate Eco bgcalS tation
Chaà °as	Estaà § ão Eco à ³gica Chaà °as	Eco bg cal Station
Ibicatu	Estaà § ão Eco à ³gica Ibicatu	Eco bgical Station
Iha do M e l	Iha do Mel	State Ecobgical Station
Itirapina	Estaà § ão Eco à ³gica Itirapina	Eco bgical Station
	1=	

Source: Explore Protected Areas, http://protectedplanet.net

Table A5 List of Protected Area in Brazil (continued, 3/25)

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Jataà -	Estañ § ñ£o Eco ĥ gica Jatañ –	Eco bgical Station
R be irà £ o P reto	Estaà § ão Eco à gica de R be rão Preto	Eco bgical Station
Santa BÃ irbara	Estaà § ão Eco à gica de Santa Bà irbara	Eco bgical Station
ParaÃ-so	ParaÃ-so	State Ecobgical Station
Chapada Diamantha	Parque Nacionalda Chapada Diamantina	National Park
Lagoa do Peixe	Parque Nacionalda Lagoa do Peixe	National Park
Bacanga	Bacanga	S tate P ark
Morro do Chapã⊚u	Parque Estadual do Morro do ChapÃ⊕u	S tate Park
Pedra Tahada	Reserva B is bgica de Pedra Tahada	B b bgcalR eserve
Rondinha	Rondinha	S tate Park
Serra de Caldas Novas	Parque Estadual da Serra de Cablas Novas	S tate Park
Cairuà § u	Ãrea de Proteà § ão AmbientalDe Cairuà § u	Environm ental Protection Area
Gruta dos Bre õ	Ãrea de ProteçÃ&o Ambienta I Grutas dos BreÃμes / Veredas do RomÃ	
es/Veredas do Romãto	£o Gram acho	State Environmental Protection Area
Serra do Mar	Serra do Mar	State Environmental Protection Area
M angaratba	M angaratba	State Environmental Protection Area
Marcãi	Marcã i	State Environmental Protection Area
M assam baba	Ãrea de Proteção Ambientalde Massambaba	Environm ental Protection Area
CananA © ia-Iguape-Peru	7	
Ã-be	Ãrea de Proteção Ambienta ID e Canané ia— iguapé—peru×be	Environmental Protection Area
Koathemo	Koathemo	Indigenous Area
K araraà ´	Kararaà ′	Indigenous Area
Tripuà –	Estaà § ão Eco à gica do TripuÃ-	Eco bgical Station
Serra do C pà 3	Parque Nacional da Serra da Cipã 3	National Park
Amapãi	F bresta Nacional de Amapãi	NationalForest
Purus	F bresta Nacional de Purus	NationalForest
Tefà ©	F bresta Nac bnalde TefA o	NationalForest
Guarà i	Reserva B b A giza do GuarA i	B b bgcalReserve
Bacia do Rio Descoberto	Ãrea de Proteà § ão Ambientalda Bacia do Rio Descoberto	Environmental Protection Area
	Ãrea de Proteção Ambientalda Bacia do Rio São Barto bm eu	Environmental Protection Area
Cafuringa	Apa de Cafuringa	Environmental Protection Area
Igarapà © G e lado	Ãrea de Proteção Ambientaldo Igarapé Gelado	Environmental Protection Area
Mãrb Xavier	F bresta Nac bnalde M Ã rb Xavier	NationalForest
Bom Futuro	F bresta Nacional de Bom Futuro	NationalForest
Monte Roraina	Parque Nacionaldo Monte Roraina	NationalPark
Ib iram a	F bresta Nacional de Ibiram a	NationalForest
M am irauà i	M am irauà i	State Sustainable Development Reserve
Fonte Grande	Fonte Grande	S tate Park
Itapeva	Estaà § ão Eco Á gica Itapeva	Eco bgical Station
Guarbas	Reserva B b A 3gca Guarbas	B b bgcalReserve
A rvo redo	Reserva B io A 3gica Marinha do Arvoredo	B b bgcalReserve
U atum ã	Reserva B io Ñ 3gica do Uatum ã	B b bgbalReserve
Cavernas do Peruaà § u	Ãrea de Proteà § ão Ambienta IC avernas do Peruaà § u	Environmental Protection Area
Carste do Lagoa Santa	à rea de Proteà § ão Ambienta IC arste da Lagoa Santa	Environmental Protection Area
Serra da Tabatinga	à rea de Proteà § ão Ambienta IS erra da Tabatinga	EnvironmentalProtection Area
Amazonas	F bresta Nacional do Amazonas	NationalForest
MapíÃi⊢Inaunii	F bresta Nacional de Mapã i- nau nã -	NationalForest
Rorama	F bresta Nacional de Roraina	NationalForest
Saracã i Taquera	F bresta Nacional de Saracã i-taquera	NationalForest
Tapirapã⊚-A quiri A to Juruã i	F bresta Nacional de Tapirapão – aquiri	National Forest
Chico Mendes	Reserva Extrativista Alto Juruã i Reserva Extrativista Chico Miendes	Extractive Reserve Extractive Reserve
R b Cajari P b Ouro Proto	Reserva Extrativista R io Cajari	Extractive Reserve
R b O uro Preto	Reserva Extrativista R b 0 uro Preto	Extractive Reserve
à guas Q uentes	à guas Q uentes	State Park
Culuene Serra da Tiririca	Culuene Serra da Tiririca	State EcobgicalReserve
		State Park
111 17 1	Manguezais da Lagoa do Roteiro	State Ecobgical Reserve
NhamundA I	Nham undA	S tate Park
Serra do AraçÃi	Serra do Araã § ã i	
Caverna do Maroaga	Caverna do Maroaga	State Environmental Protection Area
Nhamundãi	Nham undà j	State Environmental Protection Area
	Lagoas e Dunas do Abaetà ©	State Environmental Protection Area
Weneces bu Guimar A £ es		State Ecobgical Station
Serra de Baturitão	Serra de Baturitã ⊙	State Environmental Protection Area
Riacho Fundo	Riacho Fundo	S tate A rea of 0 utstanding Eco bgcal Interest Re evant Eco bgcal Interest A rea
Paranoà ¡Su l Lago Paranoà ¡	Arie Paranoñ i Sul	S tate Eco bg cal Reserve
	Lago Paranoà i	
Serra do Brigade iro	Serra do Brigade iro	State Park
Cachoe ra das Andornhas		State Environmental Protection Area
A godoa HM a iandeua	Ãrea de Proteção Ambientalde Algodoa⊢Maiandeua	Environmental Protection Area
lb porã	bjorţ	State Park
Cabeç a do Cachorro	Cabeà § a do Cachorro	State Area of 0 utstanding Eco bgical Interest
Buriti	Buriti	State Area of 0 utstanding Eco bgical Interest
Palmas	Palmas	S tate P ark
São Cam ib	São Cam ib	State B b bgcalReserve
Passa Dois	Passa Do is	S tate Forest

Source: Explore Protected Areas, http://protectedplanet.net

Table A5 List of Protected Area in Brazil (continued, 4/25)

Mata da Cadere	Water de Carley	Chaha David
M ata do Godoy Serra do Tigre	Mata do Godoy	S tate P ark S tate A rea of 0 utstanding Eco bgical Interest
Graciosa	Serra do Tigre Graciosa	State Park
Penhasco Verde	Penhasco Verde	S tate P ark
Pico Marumbi	Pico Marumbi	S tate P ark
IbicuÃ-Mirm	bcuÃ−M rm	State B b b g b a l R e se r v e
Itapuà €	Itapuà €	S tate P ark
Banhado Grande	Banhado Grande	State Environmental Protection Area
Samuel	Samuel	State Ecobgical Station
Serra dos Trãªs Irm ã£os Traã§adal	Serra dos Ira s im a & os Traã§ ada l	State Ecobgical Station
R b O uro Preto	R b O uro Preto	S tate B b bg calReserve S tate B b bg calReserve
Gua arã i Mirim	Gua arã i Mirim	State Park
Corum biara	Corum biara	S tate P ark
Serra dos Reis	Serra dos Reis	S tate P ark
Intervales	Intervales	S tate P ark
Fazendinha	Fazendinha	State B b bg calR eserve
R b Curað	Ãrea de Proteà § ão Ambientaldo R io Curiað	Environmental Protection Area
R b VermehoB R b VermehoC	R b Vermeho B R b Vermeho C	S tate Forest S tate Forest
R ip M ade ira A	R is M ade ira A	State Forest
R b M achado	R ip M achado	State Forest
R io Rooseve lt	R io Rooseve It	S tate Eco bgical S tation
R b Preto/Jacundà i	R io Preto/Jacundà i	State Extractive Reserve
R b Pacaà is Novos	R io Pacaã is Novos	State Extractive Reserve
Guarà i	Guarà i	State Park
Nukni	Nukini	Indigenous Area
Poyanawa	Poyanawa Jam nawa do Igarapã∘ Preto	Indigenous A rea Indigenous A rea
	Jam nawa do garapa⊕ Pre to Jam nawa Arara do Rio Bagé	Indigenous Area
	Kaxinawa Arara do No Baga Kaxinawa ida Praja do Carapana £	Indigenous Area
Kampa do Rio Amonea	Kampa do Rio Amonea	Indigenous Area
Kaxnawã j Ashannka do R	Kaxinaw Ãi Ashaninka do Rib Breu	Indigenous A rea
	KaxnawÃjdoRbJordão	Indigenous A rea
A to Tarauaçã i	A Ito Tarauacà i	Indigenous Area
	Kampa e Iso lados do Rio Envira	Indigenous Area
	Kaxhawãido Rib Humaitãi Arara do Igarapã⊙ Humaitãi	Indigenous A rea Indigenous A rea
R b Gregà ³r b	R b Gregà rb	Indigenous Area
	Kaxhawà jCoà ´n ia V inte e Sete	Indigenous Area
IgarapÃ⊙ do Caucho	Igarapà © do Caucho	Indigenous Area
Kulina Igarapã© do Pau	Ku lina Igarapà © do Pau	Indigenous A rea
Kaxinawã iNova 0 linda	Kaxinawà iNova O linda	Indigenous A rea
M am o adate	M am oadate	Indigenous Area
Cabece ira do R io A cre A tto R io Purus	Cabece ira do R b Acre Alto R b Purus	Indigenous Area Indigenous Area
Antimary	Antimary	S tate Forest
M acauà i	F bresta Nac bnalde M acauã	NationalForest
Galbi	Galbi	Indigenous A rea
Jum ina	Jum na	Indigenous A rea
Uaça	Uaà § a	Indigenous A rea
Waãpi	Waãpi	Indigenous Area
1.475383 -53.224347	1.478603 -53.224662	1.482003 -53.227175
Morro dos Seis Lagos Javar⊢Buriti	Reserva B b à 'g ba Morro dos S e b Lagos à rea de Re byante Interesse Eco à 'g ba Javari Buriti	B b bgcalReserve Area of 0 utstanding Eco bgcal Interest
Boca do Acre	Boca do Acre	Indigenous Area
Cam icua	Cam icua	Indigenous Area
Coata-Laran ja l	Coata-Laran al	Indigenous Area
Deni	Deni	Indigenous A rea
Estre la da Paz	Estre la da Paz	Indigenous A rea
Gavão	Gavão	Indigenous A rea
Guapenu	Guapenu	Indigenous A rea
Igarapà © G rande Ipixuna	Igarapà © Grande	Indigenous Area
Itaitinga	Ipkuna Itaitinga	Indigenous Area Indigenous Area
Jaqu'ri	Jaqu'ri	Indigenous Area
Jatuarana	Jatuarana	Indigenous Area
Katuk na/Kax naw à j	Katukna/KaxnawÃj	Indigenous Area
Kaxarari	Kaxarari	Indigenous A rea
Kulina do Medio Jurua	Ku lina do M edio Jurua	Indigenous A rea
Lago A apua	Lago A apua	Indigenous A rea
Lago do Beruri	Lago do Beruri	Indigenous Area
Lameirão	Lameirãso	Indigenous Area
Lauro Sodrã⊚ Macarrã£o	Lauro Sodrã © M acarrã £o	Indigenous A rea Indigenous A rea
m acair A & C	III avaitnwv	and Benous wied

Table A5 List of Protected Area in Brazil (continued, 5/25)

Seru in i/Mariene	Seru n i/M arène	Indigenous A rea
Meria	Meria	Indigenous Area
M iratu	M ratu	Indigenous A rea
Murutinga	Murutinga	Indigenous A rea
Natal/Fe lic idade	Nata/Fe lic idade	Indigenous A rea
N hamundãi/Mapuera	Nham undà i/M apuera	Indigenous A rea
Nove de Janeiro	Nove de Jane ro	Indigenous A rea
P adre	Padre	Indigenous A rea
Paracuhuba	Paracuhuba	Indigenous A rea
Paumarido Lago Marahã		Indigenous A rea
P irahã	P irahã	Indigenous A rea
R b B Ã i	R b B Ã i	Indigenous A rea
Recreio/Sã£o Fão lix	Recre b/São Fî lx	Indigenous Area
São Leopo do Taboca l	São Leopo do	Indigenous A rea
Tenharim Marmebs	Tabocal Tenharim Marmebs	Indigenous A rea Indigenous A rea
Terra Vermeha	Terra Vemeha	Indigenous Area
Betan ia	Betan ia	Indigenous A rea
Tkà °na de Feioal	T kà °na de Fe ipal	Indigenous Area
Évare II	Évare II	Indigenous A rea
Évare I	Évare I	Indigenous A rea
Tukuna Porto Espiritual	Tukuna Porto Espiritual	Indigenous A rea
T kuna de Santo Antonio	T kuna de Santo Antonio	Indigenous A rea
Vui-Uata-In	Vu i-U ata-In	Indigenous A rea
Traca ji i	TracaÃi	Indigenous A rea
Trinche ira	Trinche ira	Indigenous A rea
Uati-ParanÃi	Uati-Paranà i	Indigenous A rea
Tukuna Um ariaç u	Tukuna Umariaç u	Indigenous A rea
Uneiuxi	Une iuxi	Indigenous A rea
Vale do Javari	Vale do Javari	Indigenous A rea
Wam ri-Atroari	Waim ri-A troari	Indigenous A rea
Zuruahã	Zuruahã	Indigenous A rea
Alto Turiaçu	Alto Turiaà § u	Indigenous A rea
Ararboia Awa	Ararbo ia Awa	Indigenous A rea Indigenous A rea
Bacurzinho	Bacurzinho	Indigenous Area
Cana Brava/Guajajara	Cana Brava/Gua ja jara	Indigenous Area
Caru	Caru	Indigenous Area
Geralla Toco Preto	Geratia Toco Preto	Indigenous A rea
Governador	Governador	Indigenous A rea
Krkati	Krkati	Indigenous A rea
Lagoa Com prida	Lagoa Comprida	Indigenous A rea
Morro Branco	Morro Branco	Indigenous A rea
Porquinhos	Porquinhos Porquinhos	Indigenous A rea
R io P indarã ◎	R io P indarÃ⊚	Indigenous A rea
Rodeador	Rodeador	Dominial Indigenous Area
Urucu/Juruà i	Urucu/Juruà į	Indigenous A rea
A piaka/K ayabi	Apiaka/K ayabi	Indigenous A rea
A reões	Areões	Indigenous A rea
Bakairi	Bakairi	Indigenous A rea Indigenous A rea
Capoto/Jarna Erkbaktsa	Capoto/Jarina Erkbaktsa	Indigenous Area
Escondido	Escondido	Indigenous Area
Estivadinho	Estivadinho	Indigenous Area
Figue iras	Figue iras	Indigenous Area
Irantxe	Irantxe	Indigenous Airea
Japu ira	Japuira	Indigenous Area
Jarudore	Jarudore	Indigenous Reserve
M arechalRondon	M arechalR ondon	Indigenous A rea
M enku	M enku	Indigenous A rea
Merure	Merure	Indigenous A rea
N am b kw ara	N am b kw ara	Indigenous A rea
P arabubure	Parabubure	Indigenous A rea
Paresi	Paresi	Indigenous A rea
Perigara	Perigara	Indigenous A rea
P in ente IB arbosa	P in ente IB arbosa	Indigenous A rea
Pirneus de Souza	Pirneus de Souza	Indigenous A rea
R io Form oso	R io Form oso	Indigenous A rea
	Sangradouro/Volta Grande	Indigenous A rea
Santana	Santana	Indigenous A rea
070 0		
São Domingos - MT	São Dom ingos - MT	Indigenous Area
SararÃo	Sararà ©	Indigenous A rea
S ararà © S erra M orena	Sararã o Serra Morena	Indigenous A rea Indigenous A rea
SararÃo	Sararà ©	Indigenous A rea

Source: Explore Protected Areas, http://protectedplanet.net

Table A5 List of Protected Area in Brazil (continued, 6/25)

Tereza Cristina	Tereza Cristina	Indigenous Reserve
T recatinga	Trecatinga	Indigenous Area
Umutha	Umutha	Indigenous A rea
Utariti	Utariti	Indigenous A rea
Vale do Guaporé	Vale do Guaporà ©	Indigenous A rea
Zorà ³	Zorà 3	Indigenous A rea
AltoRioGuamÃi Amanayé	AltoRioGuamÃi AmanayÃo	Indigenous A rea Indigenous A rea
Anam bé	Anam bà ©	Indigenous Area
Andrã i-M arau	Andirà -M arau	Indigenous Area
Apyterewa	Apyterewa	Indigenous Area
	A raw etÃ⊙ IgarapÃ⊙ Ipixuna	Indigenous A rea
Bað	Bað	Indigenous A rea
X krin do R io Catete	X krn do R b Catete	Indigenous A rea
K ayapà 3	Kayapó	Indigenous A rea
Cayabi	Cayabi	Indigenous A rea
Mãe Maria	Mãe Maria	Indigenous Area
M unduruku	M unduruku Paqu à Şam ba	Indigenous A rea
Paquçamba Parakanã	Parakan A £	Indigenous Area
Sai-C hza	Sai-Cinza	Indigenous Area
Sororà 3	Sororà 3	Indigenous Area
Tem bé	Tem bà ©	Indigenous Area
Trocarã i	Trocarã i	Indigenous A rea
Aphayî	Ap nayà o	Indigenous A rea
Funil	Funil	Indigenous A rea
K rao andia	K rao landia	Indigenous A rea
XambioÃi	X am b b à i	Indigenous A rea
Xerente	Xerente	Indigenous Area
R b Cautà rb	R b Cautà rb	State Extractive Reserve
Igarapà © Lage Igarapà © Lourdes	Igarapà © Lage Igarapà © Lourdes	Indigenous A rea Indigenous A rea
Igarapã © R be irã £ o	IgarapÃ⊚ R be irã£o	Indigenous Area
Karpuna	Karpuna	Indigenous Area
Karitiana	Karitiana	Indigenous Area
R b M equens	R io M equens	Indigenous A rea
Pacaas Novas	Pacaas Novas	Indigenous A rea
R b Branco	R b Branco	Indigenous A rea
R b Guaporé	R io Guaporé	Indigenous A rea
R b Negro O caia	R is Negro O caia	Indigenous A rea
Roosevelt Sagarana	Rooseve It Sagarana	Indigenous Area
Sete de Setembro	Sete de Setembro	Indigenous A rea Indigenous A rea
Tubarà £ o Latunde	Tubarão Latunde	Indigenous Area
Uru-Eu-Wau-Wau	Uru-Eu-W au-W au	Indigenous Area
Ananã is	Ananã is	Indigenous A rea
Aningal	Aningal	Indigenous A rea
Anta	Anta	Indigenous A rea
A raç a	Araça	Indigenous A rea
Barata Livramento		
	Barata Livram ento	Indigenous A rea
Bom Jesus	Bom Jesus	Indigenous Area Indigenous Area
Bom Jesus Boquerão	Bom Jesus Boqueřã£o	Indgenous Area Indgenous Area Indgenous Area
Bom Jesus Boque rã£o Cajue ro	Bom Jesus Boqueirāŝo Cajueiro	Indgenous Area Indgenous Area Indgenous Area Indgenous Area
Bom Jesus Boque rão Cajue ro Canauan in	Bom Jesus Boque rÃ&o Cajue ro Canauan m	Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea
Bom Jesus Boque rã£o Cajue ro	Bom Jesus Boqueirāŝo Cajueiro	Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea
Bom Jesus Boque rão Cajue ro Canauan m Jabuti	Bom Jesus Boque říšo Caje řo Canauan in Jabuti	Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea
Bom Jesus Boque řížo Caje ro Canauan in Jabuti Jacam in M abcacheta M angue ra	Bom Jesus Boque rA&o Caje ro Canauan in Jabuti Jacam in M abcacheta M angue ra	Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea
Bom Jesus Boque řížo Cajue řo Canauan in Jabuti Jacam in M a bcacheta M angue řa M anoa/P im	Bom Jesus Boque rA&o Cajue ro Canauan in Jabuti Jacam in M a bacacheta M angue ra M anoa/P ium	Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea
Bom Jesus Boque rÃão Cajue ro Canauan in Jabuti Jacam in Makacacheta Mangue ra Manoa/Pim Murru	Bom Jesus Boque iA£o Cajue ro Canauan in Jabuti Jacam in M abacacheta M angue ra M anoa/P im M urru	Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea
Bom Jesus Boque řÁžo Cajue řo Canauan in Jabuti Jacam in Malacacheta Mangue řa Murru O uro	Bom Jesus Boque iA£o Cajue iro Canauan in Jabuti Jacam in Mabcacheta Mangue ira Manoa/P ium Muriu O uro	Indgenous Area Indgenous Area Indgenous Area Indgenous Area Indgenous Area Indgenous Area Indgenous Area Indgenous Area Indgenous Area Indgenous Area Indgenous Area Indgenous Area Indgenous Area Indgenous Area Indgenous Area Indgenous Area Indgenous Area Indgenous Area Indgenous Area
Bom Jesus Boque řížo Caje ro Canauan in Jabuti Jacam in M abcacheta M angue ra M urru O uro P im	Bom Jesus Boque rA&o Caje ro Canauan in Jabuti Jacam in M abcacheta M angue ra M unoa/P ium M urru O urro P ium	Indigenous A rea Indigenous A rea
Bom Jesus Boque řížo Cajue řo Canauan in Jabuti Jacam in M a bcacheta M angue řa M urru O uro P im P onta da Serra	Bom Jesus Boque rA&o Cajue rA Cajue ro Canauan in Jabuti Jacam in Mabacacheta Mangue ra Manoa/P ium Murru O uro P ium P onta da Serra	Indigenous A rea Indigenous A rea
Bom Jesus Boque rão Cajue ro Canauan in Jabuti Jacam in Mabacacheta Mangue ra Manoa/Pim Muriu Ouro Pim Ponta da Serra Raim undão	Bom Jesus BoquerA£o CajuerA Canauan in Jabuti Jacam in Mahacacheta Manguera Manoa/Pim Muriu Ouro Pim PontadaSerra Raimund£o	Indigenous A rea Indigenous A rea
Bom Jesus Boque řř. žo Caje ro Canauan in Jabuti Jacam in Mahacacheta Mangue ra Manoa/Pium Murru Ouro Pium Ponta da Serra Ramundř. £o Raposa Serra do Sol	Bom Jesus BoquerA£o Cajero Canauanim Jabuti Jacamim Mabcacheta Manguera Manoa/Pium Murru Ouro Pium PontadSerra RamundA£o Raposa Serra do Sol	Indgenous Area Indgenous Area
Bom Jesus Boque rão Cajue ro Canauan in Jabuti Jacam in Mabacacheta Mangue ra Manoa/Pim Muriu Ouro Pim Ponta da Serra Raim undão	Bom Jesus BoquerA£o CajuerA Canauan in Jabuti Jacam in Mahacacheta Manguera Manoa/Pim Muriu Ouro Pim PontadaSerra Raimund£o	Indigenous A rea Indigenous A rea
Bom Jesus Boque řř. Eo Cajie ro Canauanin Jabuti Jacam in M abcacheta M angue řa M urru O uro P im Ponta da Serra R amund Eo Asposa Serra do Sol 4.465023 -59.903487	Bom Jesus Boque rA&o Caje ro Canauan in Jabuti Jacam in M abcacheta M angue ra M anna/P ium M urru O urro P ium Ponta da Serra Raim und&&o Raposa Serra do Sol 4.466053 -59.903187	Indgenous Area Indgenous Area
Bom Jesus Boque řřáco Caje řo Canauan in Jabuti Jacam in M abcacheta M angue řa M anoa/P im M urru O uro P im Ponta da Serra R am undřáco R aposa Serra do Sol 4.465023 -59.903487 Santa Inez Sřáco Marcos - M T Serra da Moř § a	Bom Jesus Boque rato Caje ro Canauanin Jabuti Jacam in Mabacacheta Mangue ra Manoa/P ium Murru O uro P ium P onta da Serra Ram undato Ramoa Serra do Sol 4.466053 -59.903187 Santa hez Sato Marcos - M T Serra da Moă § a	Indgenous A rea Indgenous A rea
Bom Jesus Boque řážo Caje řo Canauanim Jabuti Jacam im M abcacheta M angue řa M angue řa M urru Ouro P im Ponta da Serra R am undážo R aposa Serra do Sol 4.465023 -59.903487 Santa Inez Sážo M arcos - M T Serra da M ož § a Sucuba	Bom Jesus Boque rÃão Caje ro Canauan in Jabuti Jacam in Mabcacheta Mangue ra Manoa/P ium Murru O uro P ium Ponta da Serra Raim undãão Raposa Serra do Sol 4.466053 -59.903187 Santa inez SÃão Marcos - MT Serra da Moã§a Sucuba	Indigenous A rea Indigenous A rea
Bom Jesus Boque rato Cajue ro Cajue ro Canauan in Jabuti Jacam in Mabacacheta Mangue ra Manoa/P im Murru O uro P im Ponta da Serra Ramundato Raposa Serra do Sol 4,465023 -59,903487 Santa Inez Sato Marcos - MT Serra da Moña §a Sucuba Taba bascada	Bom Jesus Boque rÃso Cajue ro Canauan in Jabuti Jacam in Mabacacheta Mangue ra Manoa/P ium Murriu O uro P ium P onta da Serra Raim undÃso Raposa Serra do Sol 4466053 -59.903187 Santa hez SÃso Marcos - MT Serra da Moà § a Sucuba Taba bascada	Indigenous A rea Indigenous R eserve Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea
Bom Jesus Boque řížo Caje ro Canauanin Jabuti Jacamin Mahcacheta Mangue ra Manoa/Pium Murru Ouro Pium Ponta da Serra Ramundřížo Raposa Serra do Sol 4.465023 -59.903487 Santa Inez Sřížo Marcos - M T Serra da M oříža Sucuba Taba Bascada Truaru	Bom Jesus Boque rà & o Cajue rà & o Cajue rà & o Cajue rà & o Canauan im Jabuti Jacam im Mabcacheta Mangue ra Manoa/P im Murru Ouro P im Ponta da Serra Raim undà & o Raposa Serra do Sol 4.466053 -59.903187 Santa inez SÃ & o Marcos - M T Serra da Moà § a Sucuba Truaru	Indigenous A rea Indigenous A rea
Bom Jesus Boque řážo Caje řo Canauan in Jabuti Jacam in M abcacheta M angue řa M anoa/P im M urru O uro P im Ponta da Serra R am undãšo R aposa Serra do Sol 4.465023 -59.903487 Santa Inez Sažo M arcos - M T Serra da Moă § a Sucuba Tabalascada Truaru W a W a i	Bom Jesus Boque rÃso Caje ro Canauanin Jabuti Jacam im M abcacheta M angue ra M anoa/P ium M urru O uro P ium P onta da Serra Raim undÃso Ramosa Serra do Sol 4.466053 -59.903187 Santa inez Safso M arcos - M T Serra da M oà § a Sucuba Taba bascada Truaru W a W a i	Indgenous Area Indgenous Area
Bom Jesus Boque rão Caje ro Canauan in Jabuti Jacam in M abcacheta M angue ra M anoa/P ium M urru O uro P ium P onta da Serra R am undão R aposa Serra do Sol 4.465023 -59.903487 Santa Inez São M arcos - M T Serra da M oà § a Sucuba Taba Bscada Truaru	Bom Jesus Boque rà & o Cajue rà & o Cajue rà & o Cajue rà & o Canauan im Jabuti Jacam im Mabcacheta Mangue ra Manoa/P im Murru Ouro P im Ponta da Serra Raim undà & o Raposa Serra do Sol 4.466053 -59.903187 Santa inez SÃ & o Marcos - M T Serra da Moà § a Sucuba Truaru	Indigenous Area Indigenous Area

Table A5 List of Protected Area in Brazil (continued, 7/25)

Turã⊙/Mariquita II	Turà ∘ / Mariquita II	A cquired Indigenous A rea
Trinche ira Baca ia	Trinche ira Bacaja	Indigenous A rea
Cachoe ra Seca	Cachoe ira Seca	Indigenous A rea
M enkragnotà –	M enkragno tà –	Indigenous A rea
Praia do Mangue	Praia do Mangue	A cquired Indigenous A rea
Praia do Ãndio	Praia do Ãnd b	A cquired Indigenous A rea
R io Paru D'Este Kane la	R io Paru D'Este Kane la	Indigenous A rea Indigenous A rea
Saco da Pedra	Saco da Pedra	State Ecobgical Reserve
MacaÃ⊚ de Cima	Macaé de C in a	State Environmental Protection Area
Chacrinha	Chacrinha	S tate P ark
A venture iro	A venture iro	S tate M ar ne Park
M assam baba	M assam baba	State Ecobgical Reserve
Guaratba	Reserva B b A gca E Arqueo A gca de Guaratba	B b b g calR eserve
Serra da Sapiatba	Ãrea de Proteção Ambientalda Serra De Sapiatba Jericoacoara	State EnvironmentalProtection Area EnvironmentalProtection Area
Jericoacoara	Estaã § ã£o Eco ã ³gica do Guaraguaã § u	Eco b gical Station
Guabin	à rea de Proteà § ão Ambiental Guabin	S tate Environmental Protection Area
	LitoralNorte do Estado da BaÃ-a	State Environmental Protection Area
TinharÃ⊙ Bojpeba	Tinharà © Bojeba	State Environmental Protection Area
Cachoe ira da Fum aç a	Cachoe ira da Fum aç a	S tate P ark
M ata das F bres	M ata das F bres	State Park
Itaà °nas	Itaà °nas	State Park
Jardin BotÃønico Potiguara	Estaà § ão Ecoà 'gica do Jardim BotÃønico Potiguara	Eco bgical Station Indigenous A rea
M ata do Pau Ferro	Mata do Pau Ferro	State EcobgicalReserve
Pico do Jabre	Pico do Jabre	S tate P ark
Vale do Dinossauro	à rea de Relevante Interesse Eco à ³gica V a le dos Dinossauros	A rea of 0 utstanding Eco bgical Interest
Fernando de Noronha	Parque Nacional Mar. de Fernando de Noronha	NationalPark
R is M ade ira B	R io M ade ira B	State Forest
Parque do Aripuanã	Parque do Aripuanã	Indigenous A rea
Cerrado R b Cocã ³	Cerrado Rio Cocão	UNESCO -MAB B bsphere Reserve State Park
Santana	Santana	State Forest
Jacarezinho	Jacarezinho	Forest Garden
M andaguari	M andaguari	Forest Garden
Guaratuba	Guaratuba	State Environmental Protection Area
Serra Geral	Parque Nacionalda Serra Geral	NationalPark
Ib irapu ità £	Area de ProteA § A£o Ambiental birapu itA£	Environmental Protection Area
Projeto DinAemica Bio A °	A rea de Relevante. Interesse Eco A "gica Projeto Din A ømica Bio A "gica de	
Projeto DinAømica Bio A 3 gica de Fragmentos	A rea de Re levante Interesse Eco M 'gica Pro jeto D in A øm ica B io M 'gica de Fragmentos F brestais	A rea of 0 utstanding Eco bgical Interest
Projeto DinAem ca Bio A ° gica de Fragmentos Pirajubaé	A rea de Relevante Interesse Eco A 'gica Projeto Din Alemica Bib A 'gica de Fragmentos Fibrestais Reserva Extrativista Marinha Pirajubaão	A rea of 0 utstanding Eco bg is all hterest Marine Extractive Reserve
Projeto Dinásmica Bio Air gica de Fragmentos PirajubaÃo Mata Atãentica (no Luding Pantana IM atogrossense	A rea de Re byante Interesse Eco M'gica Projeto D'hAem ica Bib M'gica de Fragmentos Forestais Reserva Extrativista Marihha Pirajubaño Mata Atñentba (nc Liding Sao Pau biGreen Belt)	Area of Outstanding Eco bgbal Interest Marine Extractive Reserve UNESCO - MAB Bissphere Reserve
Projeto DinAemica Bib Ni gia de Fragmentos PirajbaÑo Mata Atñentica (ncluding Pantanal Matogrossense Lagoa do Peixe	A rea de Re evante Interesse Eco A 'gica Pro eto D'n A em ica B b A 'gica de Fragmentos F brestais Reserva Extrativista Marinha Pira juba A o Mata A t A entica (nc Luding Sao Pau b Green Belt) Pantanal Matogrossense Lagoa do Peixe	Area of 0 utstanding Eco bg cal Interest Marine Extractive Reserve UNESCO – MAB B bosphere Reserve Ram sar Site, Wetland of International Importance Ram sar Site, Wetland of International Importance
Projeto DinAemica Bib Ni gica de Fragmentos Pia jibaño Mata Atñentica (ncluding Pantanal Matogrossense Lagoa do Peixe Parcel de Manuel Luñ-s	A rea de Re evante Interesse Eco A'gica Projeto D'n A emica Bib A'gica de Fragmentos Fibrestais Reserva Extrativista Marinha Pirajuba Ao Mata At A entica (nc Luding Sao Pau bi Green Belt) Pantanal Matogrossense Lagoa do Peixe Parcel de Manuel Lu Aos	Area of O utstanding Eco bgical Interest Marine Extractive Reserve UNESCO -MAB B biosphere Reserve Ram sar Site, Wetland of International Importance Ram sar Site, Wetland of International Importance State Marine Park
Projeto DinAemica Bib Nigia de Fragmentos PirajubaÑo Mata AtÑentica (ncluding PantanalMatogrossense Lagoa do Peike Parcelde ManuelLuñas Äguas da Prata	A rea de Re byante Interesse Eco A'gica Projeto D'nAem ica B b A'gica de Fragmentos F Drestais Reserva Extrativista Marinha Pirajibaão Mata Atfentica (nc Liding Sao Pau b Green Belt) Pantanal Matogrossense Lagoa do Pe ke Parce I de Manue I Luã-s Ãguas da Prata	Area of 0 utstanding Eco bgbal Interest Marine Extractive Reserve UNESCO - MAB B bsphere Reserve Ram sar Site, Wetland of International Importance Ram sar Site, Wetland of International Importance State Marine Park State Forest Reserve
Projeto DinAemica Bib Nigia de Fragmentos PirajibaÑo Mata Atñentica (no Liding PantanalMatogrossense Lagoa do Peixe Parcel de ManuelLuñas Raguas da Prata Bananal	A rea de Re evante Interesse Eco M'gica Projeto D'n A emica B b M'gica de Fragmentos F brestais Reserva Extrativista Marinha Pirajiba A c Mata A t A entica (no Luding Sao Pau b Green Belt) Pantana IM a togrossense Lagoa do Peixe Parcel de Manuel LuÃ-s Āguas da Prata Esta A Ş Â & o Eco A gica Banana I	A rea of 0 utstanding Eco bgbal Interest Marine Extractive Reserve UNESCO - MAB B bsphere Reserve Ram sar Site, Wetland of International Importance Ram sar Site, Wetland of International Importance State Marine Park State Forest Reserve Eco bgbal Station
Projeto Dinaemica Bib Nigia de Fragmentos Pirajbaño Pantanal Matogrossense Lagoa do Peixe Parcel de Manuel Luñas Aguas da Prata Bananal Juruparñi	A rea de Re byante Interesse Eco M 'gica Pro jeto D nA em ica B b M 'gica de Fragmentos F brestais Reserva Extrativista Marinha P irajubaã o Mata At Mentica (no Luding Sao Pau b Green Belt) Pantanal M atogrossense Lagoa do Pe ixe Parcel de Manuel Luã – s Āguas da P rata Esta Á § A £ o Eco Á 'gica Bananal Parque Estadual do Jurupar Á i	Area of 0 utstanding Eco bgisal Interest Marine Extractive Reserve UNESCO - MAB B issphere Reserve Ram sar S ite, W etland of International Importance Ram sar S ite, W etland of International Importance S tate Marine Park S tate Forest Reserve Eco bgisal S tation S tate Park
Projeto DinAemica Bib Nagia de Fragmentos Prajubaño Mata Atñentica (ncluding Pantanal Miatogrossense Lagoa do Peixe Parcel de Mianuel Luñas Aguas da Prata Bananal Juruparñi Itaberñi	A rea de Re evante Interesse Eco A 'gica Pro eto D h A em ica B b A 'gica de Fragmentos F brestais Reserva Extrativista Marinha P ira jubaã o Mata A t A entica (including Sao Pau b Green Belt) Pantanal M atogrossense Lagoa do Pe ixe Parce I de M anue I Luã – s à guas da Prata Estaã Ş à sô Eco à 'gica Bananal Parque Estadual do Juruparã i Estaã Ş à sô Eco à 'gica Itaberã i	Area of 0 utstanding Eco bgital Interest Marine Extractive Reserve UNESCO -M AB B bisphere Reserve Ram sar Site, Wetland of International Importance Ram sar Site, Wetland of International Importance State Marine Park State Forest Reserve Eco bgital Statton State Park Eco bgital Statton
Projeto Dinaemica Bib Nigia de Fragmentos Pirajbaño Pantanal Matogrossense Lagoa do Peixe Parcel de Manuel Luñas Aguas da Prata Bananal Juruparñi	A rea de Re byante Interesse Eco M 'gica Pro jeto D nA em ica B b M 'gica de Fragmentos F brestais Reserva Extrativista Marinha P irajubaã o Mata At Mentica (no Luding Sao Pau b Green Belt) Pantanal M atogrossense Lagoa do Pe ixe Parcel de Manuel Luã – s Āguas da P rata Esta Á § A £ o Eco Á 'gica Bananal Parque Estadual do Jurupar Á i	Area of 0 utstanding Eco bgical Interest Marine Extractive Reserve UNESCO – MAB B bosphere Reserve Ram sar S ite, W etland of International Importance Ram sar S ite, W etland of International Importance S tate Marine Park S tate Forest Reserve Eco bgical S tation S tate Park
Projeto Dinaemica Bib Nigia de Fragmentos Pirajibaño Partanal Miatogrossense Lagoa do Peixe Parcel de Mianuel Luñas Aguas da Prata Bananal Juruparñi Itaberñi Miorro do Diabo Porto Ferreira Sãgo Carbs	A rea de Re evante Interesse Eco N 'gica Pro eto D nA em ica B b N 'gica de Fragmentos F brestais Reserva Extrativista Marinha P irajuba C Mata At Kentica (including Sao Pau b Green Belt) Pantanal M atogrossense Lagoa do Peixe Parcel de Manuel LuÃ-s Äguas da Prata Esta ŠÃo Eco Ñ 'gica Bananal Parque Estadual do Jurupar A i Esta ŠÃo Eco Ñ 'gica Itaber A i Parque Estadual do Morro do D iabo Parque Estadual do Morro do D iabo Parque Estadual de Porto Ferre ira Esta ŠÃo Eco Ñ 'gica de SÃo Carbs	Area of 0 utstanding Eco bgial Interest Marine Extractive Reserve UNESCO -M AB B issphere Reserve Ram sar S ite, W etland of International Importance Ram sar S ite, W etland of International Importance S tate Marine Park S tate Forest Reserve Eco bgial S tation S tate Park Eco bgial S tation S tate Park Eco bgial S tation S tate Park Eco bgial S tation
Projeto DinAemica Bib Nigia de Fragmentos PirajubaÑo Mata AtÑentica (nc Luding Pantanal Matogrossense Lagoa do Peike Parce Ide Manuel Luñas Äguas da Prata Bananal JuruparÑi ItaberÑi Morro do Diabo Porto Ferreira SÃŝo Carbs Valinhos	A rea de Re byante Interesse Eco N 'gica Pro jeto D nA em ica B b N 'gica de Fragmentos F brestais Reserva Extrativista Marinha P ira juba e Mata A t Rentica (nc Liding Sao Paub G Green Be lt) Pantanal M atogrossense Lagoa do Pe ixe Parce Ide M anue ILuñ – s Äguas da P rata Estañ Ş Â sō Eco Ñ 'gica Bananal Parque Estadualdo Juruparñ i Estañ Ş Â sō eco Ñ 'gica Itaberñ i Parque Estadualdo Morro do D iabo Parque Estadualdo Morro do D iabo Parque Estadualdo Porto Ferre ia Estañ Ş Â sō Eco Ñ 'gica de S Â sō C carbs Va linhos	Area of 0 utstanding Eco bgbal Interest Marine Extractive Reserve UNESCO - MAB B bsphere Reserve Ram sar S ite, W etland of International Importance Ram sar S ite, W etland of International Importance State Marine Park State Forest Reserve Eco bgbal S taton State Park Eco bgbal Staton State Park State Park State Park State Park State Bals Staton State Coobs Bals Staton State Coobs Bals Staton State Coobs Bals Staton State Coobs Bals Staton State Coobs Bals Staton State Coobs Bals Staton
Projeto Dinagmica Bib Nagia de Fragmentos Pirajibaño Mata Atñgntica (nc luding Pantanal Matogrossense Lagoa do Peixe Parcel de Manuel Luñas Aguas da Prata Bananal Juruparña Itaberña i Morro do Diabo Porto Ferreira Sãão Carbs Valinhos Xituñas	A rea de Re evante Interesse Eco A' gica Pro eto D'nAem ica B b A' gica de Fragmentos F brestais Reserva Extrativista Mariha P'ra jiba A o Mata A t A fentica (nc Liding Sao Pau b Green Be lt) Pantanal Matogrossense Lagoa do Pe ke Parce I de Manue I Luà - s guas da Prata Esta A S A So Eco A' gica Bananal Parque Estadual do Jurupar A' i Esta A S A So Eco A' gica Itaber A i Parque Estadual do Morro do D'abo Parque Estadual de Porto Ferre ira Esta A S A So Eco A' gica de S A So Carbs Valinhos Esta A S A So Eco A' gica de X itu A o	Area of 0 utstanding Eco bgbal Interest Marine Extractive Reserve UNESCO - MAB B bsphere Reserve Ram sar Site, Wetland of International Importance Ram sar Site, Wetland of International Importance State Marine Park State Forest Reserve Eco bgbal Station State Park State Park State Park State Park State Park State Park State Park State Park State Cobgbal Station State Cobgbal Station State Cobgbal Station State Eco bgbal Station Eco bgbal Station Eco bgbal Station
Projeto Dinaemica Bib Nigia de Fragmentos Pirajibaño Pirajibaño PantanalMatogrossense Lagoa do Peixe Parcel de ManuelLuña-s Ñguas da Prata Bananal Juruparñi Itaberñi Morro do Diabo Porto Ferreira Sñao Carbs Valinhos X tibño Jurño ia-Itatins	A rea de Re evante Interesse Eco N 'gica Pro eto D h A em ica B b N 'gica de Fragmentos F brestais Reserva Extrativista Mariha P irajbañ Mata A théntica (inc luding Sao Pau b Green Be lt) Pantanal M atogrossense Lagoa do Pe ke Parce I de Manue I Luñ - s Ãguas da Prata Estañ § Ãŝo Eco Ñ 'gica Bananal Parque Estadual do Juruparñ i Estañ § Ãŝo Eco Ñ 'gica Itaberñ i Parque Estadual do Morro do D abo Parque Estadual de Porto Ferre ra Estañ § Ãŝo Eco Ñ 'gica de Sñŝo Carbs Va linhos Estañ § Ãŝo Eco Ñ 'gica de X ituñ o Estañ § Ãŝo Eco Ñ 'gica de X ituñ o Estañ § Ãŝo Eco Ñ 'gica de X ituñ o Estañ § Ãŝo Eco Ñ 'gica de X ituñ o Estañ § Ãŝo Eco Ñ 'gica de X ituñ o Estañ § Ãŝo Eco Ñ 'gica de X ituñ o Estañ § Ãŝo Eco Ñ 'gica de X ituñ o Estañ § Ãŝo Eco Ñ 'gica de X ituñ o	A rea of 0 utstanding Eco bgical Interest Marine Extractive Reserve UNESCO - MAB B isosphere Reserve Ram sar S ite, W etland of International Importance Ram sar S ite, W etland of International Importance State Marine Park State Forest Reserve Eco bgical Station State Park Eco bgical Station State Park State Park State Park State Park State Eark State Bark State Ecobgical Station State Ecobgical Station Eco bgical Station Eco bgical Station Eco bgical Station Eco bgical Station
Projeto Dinagmica Bib Nigia de Fragmentos Piajubaño Mata Atñentia (nc uding Pantanal Miatogrossense Lagoa do Peixe Parcel de Mianuel Luñas Aguas da Prata Bananal Juruparñi Itaberñi Morro do Diabo Porto Ferreira Sñaco Carbs Valinhos X tuñas Abro hos	A rea de Re evante Interesse Eco N 'gica Pro eto D hA em ica B b N 'gica de Fragmentos F brestais Reserva Extrativista Marihha P irajuba C Mata A t Kentica (including Sao Pau b Green Belt) Pantanal M atogrossense Lagoa do Pe ixe Parcel de Manuel LuÃ-s Äguas da P rata Esta S Ã c Eco Ñ 'gica Bananal Parque Estadual do Jurupar N i Esta S S S c Eco Ñ 'gica Itaber N i Parque Estadual do Morro do D iabo Parque Estadual do Porto Ferre ira Esta S S S c Eco Ñ 'gica de S S c C arbs Va linhos Esta S S S c Eco Ñ 'gica de X itu A o Esta S S S c Eco Ñ 'gica de X itu A o Esta S S S c Eco Ñ 'gica de X itu A o Esta S S S C Eco Ñ 'gica Jur N o ia- itatins Parque Nacional Marihho dos Abrohos	A rea of 0 utstanding Eco bgial Interest Marine Extractive Reserve UNESCO -M AB B isosphere Reserve Ram sar S ite, W etland of International Importance Ram sar S ite, W etland of International Importance S tate Marine Park S tate Forest Reserve Eco bgial S tation S tate Park Eco bgial S tation S tate Park S tate Park S tate Park Eco bgial S tation S tate E co bgial S tation S tate Eco bgial S tation S tate Eco bgial S tation Eco bgial S tation Eco bgial S tation Eco bgial S tation M arine National Park
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Projeto Dinagmica Bib Nagia de Fragmentos Prajubaño Mata Athigantica (nc luding Pantanal Matogrossense Lagoa do Peixe Parcel de Manuel Luñas Aguas da Prata Bananal Juruparña Itaberña Morro do Diabo Porto Ferreira Sâño Carbs Valinhos Xituñas Jurñasantal Abrohos Ita do Bananal Reentrancias Maranhense Mamirauña Gama Reintrancias Maranhense Mamirauña Gama Reintrancias Maranhense Mamirauña Gama Reentrancias Maranhense Mamirauña Gama Rojeratapuru Campinas/Katukina Tenharim do Igarapño Pre Ponta da Baba / Abrohos Aguas Be las Barra Ve ha Coroa Verme ha Acimãs (an Igarapño Sãá Apurinña (an Igarapño Sãá Apurinña (an Igarapño Sãá Apurinña (an Igarapño Sãá Apurinña (an Igarapño Sãá Apurinña (an Igarapño Tauam Apurinña (an Igarapño Sãá Apurinña (an Igarapño Sãa)	A rea de Re byante Interesse Eco A' gica Pro pto D' nA em ica B b A' gica de Fragmentos F brestais Reserva Extrativista Marinha Pira juba A o Mata A t A fentica (no Luding Sao Pau b Green Be lt) Pantanal M atogrossense Lagoa do Pe ke Parce I de Manue I Lu A - s Âguas da Prata Esta A' S A co Eco A' gica B ananal Parque Estadual do Jurupar A i Esta A' S A co Eco A' gica Itaber A i Parque Estadual do Morro do D iabo Parque Estadual do Morro do D iabo Parque Estadual de Porto Ferre ira Esta A' S A co Eco A' gica de S A co Carbs Valinhos Esta A' S A co Eco A' gica de X itu A o Esta A' S A co Eco A' gica de V itu A o Esta A' S A co Eco A' gica A' Esta A' B Esta A' B A bor A	Area of 0 utstanding Eco bgial Interest Marine Extractive Reserve UNESCO - MAB B is sphere Reserve Ram sar Site, Wetland of International Importance Ram sar Site, Wetland of International Importance State Marine Park State Forest Reserve Eco bgial Station State Park Eco bgial Station State Park State Park State Park State Bark Eco bgial Station State Eco bgial Station Marine National Importance Ram sar Site, Wetland of International Importance State Eco bgial Reserve Usustanable Deve byment Reserve Indigenous Area
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Source: Explore Protected Areas, http://protectedplanet.net

Table A5 List of Protected Area in Brazil (continued, 8/25)

Cacau do Tarauaca	Cacau do Tarauaca	Indigenous A rea
Caititu	Caititu	Indigenous Area
Capivara	Capivara	Indigenous Area
Catpari/Mamoria	Catipari/M amoria	Indigenous A rea
Cunhã-Sapucaia	Cunhã£-Sapuca ia	Indigenous Area
Cu a	Cu ia	Indigenous A rea
Guajahã	Guajahã	Indigenous Area
Igarapà © Capana	Igarapà © Capana	Indigenous Area
Iha do Camaleão	Iha do Cam a eão	Indigenous Area
	Jaraw ara/Jam am adi/Kanam ati	Indigenous Area
Jum a	Jum a	
		Indigenous Area
Kanamarido Rib JuruÃi	KanamaridoRòburuÃi PaumaridoLagoManissuã	Indigenous Area
Maraã Urubaxi		Indigenous Area
	Maraã Urubaxi	Indigenous Area
Parana do Boa Boa	Parana do Boa Boa	Indigenous Area
Paum arido Lago ParicÃi	Paum arido Lago ParicÃi	Indigenous Area
Paum arido R io Ituxi	Paum arido R io Ituxi	Indigenous A rea
Paum arido Cuniua	Paum arido Cun ua	Indigenous A rea
Peneri/Tacaquiri	Peneri/Tacaquiri	Indigenous A rea
R io M an icorà ◎	R ip M an icorà ©	Indigenous A rea
São Pedro do Sepatini	São Pedro do Sepatini	Indigenous A rea
Sepoti	Sepoti	Indigenous A rea
Tum ã	Tum ã	Indigenous A rea
D e lta do Parnaà −ba	à rea de Proteçà £o Ambienta ID e Ita do Parna ba	Environm ental Protection Area
	Bakada Maranhense Subãirea Bako Mearin	State EnvironmentalProtection Area
Reentrãønc as Maranhens	Reentrà ¢nc ias M aranhenses	State Environmental Protection Area
Enawene-Nawe	Enawene-Nawe	Indigenous A rea
Tahantesu	Tahantesu	Indigenous A rea
P e qu iza l	Pequ zal	Indigenous Area
Ju n nha	Ju n nha	Indigenous Area
Arquipà © lago do Maraà °	A rqu jpà © lago do M ara à °	State Environmental Protection Area
		State Park
	Cabece ras do R io Cu iabà i	State Environmental Protection Area
Serra de Ricardo Franco	Serra de Ricardo Franco	S tate P ark
R is Ronuro	R io Ronuro	S tate EcobgicalS tation
R b M ade irinha	R io M adeirinha	S tate EcobgicalS tation
M assaco	M assaco	Indigenous A rea
Anhatom rim	Ãrea de Proteção AmbientalAnhatom irim	EnvironmentalProtection Area
Serra das Abe has e R io	A TEA GE T TO CEA S A SO A III DETICATATINA COIN T III	LITTEO IIII EI LAIT TO LEC LOIT ATEA
da Prata	à roa do Pa byanto Interacco Ega Marina Sarra das Ababas E Pin da Prata	A roa of Outstanding Foo bains I Interest
	A rea de Re evante Interesse Eco A gica Serra das Abe has E R is da Prata	A rea of 0 utstanding Eco bgical Interest
Extrem o Norte do Estado	Reserva Extrativista Extrem o Norte do Tocantins	Extractive Reserve
F bresta da C icuta	A rea de Re evante Interesse Eco A 3gica F bresta da C icuta	A rea of 0 utstanding Eco bgical Interest
Jacarepíñ i	Jacarep A i	State Ecobgical Reserve
M ata de Santa Genebra	à rea de Re evante Interesse Eco à igica M ata De Santa Genebra	A rea of 0 utstanding Eco bg ical Interest
Matão de Cosmã polis	à rea de Re levante Interesse Eco à 'gica M atà £o de Cosm à 'po lis	A rea of 0 utstanding Eco bg cal Interest
Buritide Vassununga	Ārea de Re evante Interesse Eco Ā 'gica V assununga	A rea of 0 utstanding Eco bg ical Interest
	JacarÃ⊙ de São Dom ingos	Indigenous A rea
Barra do R io M am anguape		EnvironmentalProtection Area
Tamoios	Estaà § ão Ecoà gica de Tamoios	Eco bgical Station
Cirãico	Cirá ico	Extractive Reserve
Frexal	Frexal	Extractive Reserve
	Ãrea de Proteção Ambienta IDe Fernando De Noronha	Environm ental Protection Area
Unão	Reserva B b à 'gca Un à £ o	B b bgbalReserve
Laje de Santos	Parque Estadua IM arinho da Laje de Santos	S tate P ark
V iruà i	Parque Nacional ViruÃi	NationalPark
	Cà ´te de la dÃ⊚ couverte †'RÃ⊚ serves de la forð t atlantique	World Heritage Site
	Forðtatbntique †'Réserves du sud-est	World Heritage Site
HumaitÃi	F bresta Nac bnalde Hum aità i	NationalForest
O OTT G GG III O O MGGO	Parque Nacional Serra da Mocidade	NatonalPark
Descobrimento	Parque NacionalDescobrimento	NationalPark
Pau Brasil	Parque Nacional Pau Brasil	NationalPark
Serra da Ibiapaba	Ãrea de Proteção Ambienta IS erra da Ibiapaba	EnvironmentalProtection Area
Chapada do Ararã-pe	Ãrea de Proteção Ambienta I Chapada do Araripe	Environm ental Protection Area
A Itam ira	F bresta Nac bnal A Itam ira	NationalForest
Cara,Ãis	F bresta Nac bnalde Cara à is	NationalForest
Itacaimas	F bresta Nac bnalde Itaca unas	NationalForest
Itaituba I	F bresta Nacional de Itaituba I	NationalForest
Itaituba II	F bresta Nacional de Ita ituba Ii	NationalForest
S erra das Confusões	Parque Nacional Serra das Confusãues	National Park
	à rea de Proteà § à £ o Am bien ta l Ihas E Và irzeas do R b Paranà i	Environmental Protection Area
Restinga de Jurubatba	Parque Nac bnalRestinga de Jurubatba	National Park
X kovã i-Japuã-	Parque Estadua IX ixovã i- japuã -	S tate Park
	Bakada M aranhense Environmenta IP rotection A rea	Ram sar Site, Wetland of International Importance
Parque Estadua IM arinho	Parque Estadua IM arnho do Parce IM anoe ILuÃ-s including the Baix is do	in an sai site, ii e tanu or internaturiar in portance
do Parce IM anoe ILuÃ-s	Mestre à varo & Taro l	Ram sar Site, Wetland of International Importance
	F bresta Nacional de Contendas do Sincorãi	
Contendas do Sincorãi		National Forest
R ità ipo lis	F bresta Nac bna I de R ità po lis	NationalForest

Table A5 List of Protected Area in Brazil (continued, 9/25)

Pantanal	Pantanal	UNESCO-MAB Bipsphere Reserve
	Complexe de conservation de la€™Am azon ie centra le	World Heritage Site
Pantana I Conservation Co	A ire de conservation du Pantana l	World Heritage Site
Botucatu	Botucatu	State Forest
Costa dos Corais	Ãrea de Proteà § ão Ambienta (Costa dos Corais	EnvironmentalProtection Area
Terra do Meio Serra do Pardo	Estaà § ão Ecoà gica da Terra do Meio Parque Nacional da Serra do Pardo	Ecobgical Station National Park
R bzinho da L berdade	Reserva Extrativista Ribizinho da Liberdade	Extractive Reserve
A nauà į	F bresta Nac bnalde Anauà i	NationalForest
Pontaldos Latinos e	A rea de Relevante Interesse Eco A gica Pontaldos Latinos E Pontaldos	
Pontaldo Santiago	Santiagos	A rea of 0 utstanding Eco bgical Interest
Babia Franca	Ãrea de Proteção Ambientalda Bale ia Franca	EnvironmentalProtection Area
Chapecó Saint-Hilaire/Lange	F bresta Nacional de Chapecã 3 Parque Nacional de Saint-hilaire / lange	NationalForest NationalPark
M and ira	Reserva Extrativista Mandira	Extractive Reserve
Iha do Ameixal	à rea de Relevante Interesse Eco à gica Iha Ameixal	A rea of 0 utstanding Eco bgical Interest
Ihas Que in ada Grande e	À rea de Relevante Interesse Ecol À gico I has Que in ada Grande E Que in ada	
Que in ada Pequena	Pequena	A rea of 0 utstanding Ecobgical Interest
Capà £o Bonito	F bresta Nacional de Capã £o Bonito	NationalForest
Ipanem a	F bresta Nacional de Ipanema A rea de Re evante Interesse Eco A 'gica das Ihas Cagarras	National Forest A rea of 0 utstanding Eco bgical Interest
Arraialdo Cabo	Reserva Extrativista Marinha Arra aldo Cabo	Marine Extractive Reserve
Lorena	F bresta Nac bnalde Lorena	NationalForest
Bacia do Rio Sà £ o Joà £	Ārea de Prote§£o Ambientalda Bacia do Rio SĀ£o JoĀ£o — Mico LeĀ	
o - M co-Leão-	£0	Environmental Protection Area
Mico-Leãto-Preto	Estañ § ñão Eco ñ igica M ico Leñão Preto	Ecobgical Station A rea of 0 utstanding Ecobgical Interest
Serra da Bodoquena	Ãrea de Re evante Interesse Eco ðgica Pé-de-gigante Parque Nacional da Serra da Bodoquena	National Park
Pacotuba	F bresta Nacional de Pacotuba	National Forest
Goytacazes	F bresta Nac bnalde Goytacazes	NationalForest
Paraopeba	F bresta Nac bnalde Paraopeba	NatonalForest
Pontãµes Capixabas	Monumento Naturaldos Pontãµes Capixabas	Nature Monument
R is Preto	F bresta Nac bnalde R b Preto	NationalForest
Sempre-Vivas Corum bau	Parque Nacionaldas Sempre Vivas Reserva Extrativista Corum bau	NationalPark Extractive Reserve
M ata Escura	Reserva B io Ñ 3gica da M ata Escura	B b bgbalR eserve
Capetinga/Taquara	à rea de Re evante Interesse Eco à ³gica Capetinga/taquara	A rea of 0 utstanding Eco bgical Interest
BrasÃ-lia	F bresta Nac bnalde Brasã – lia	NatbnalForest
	Parque Nacional Cavernas do Peruaà § u	NationalPark
	à rea de Proteà § à £ o Ambienta Idas Nascentes do R io Verme ho	EnvironmentalProtection Area
	Refugio de Vida Silvestre Veredas do Oeste Baiano	Wildlife Refuge
IKara de loruan∆o	Raia de Jouanão	Extractive Reserve
Baia de IguapÃ⊚ Cristðbolis	Baia de Iguapà o F bresta Nacional de Cristã bolis	Extractive Reserve NationalForest
Cristà polis	Ba'a de Iguapão F bresta Nacionalde Cristã polis à rea de Proteã § à £ o Ambiental Meandros do Aragua a	Extractive Reserve NationalForest EnvironmentalProtection Area
Cristã polis M eandros do R b A ragua a R b do Cautã rb	F bresta Nacional de Cristã bolis à rea de Proteã § à £ o Ambiental Meandros do A ragua a Reserva Extrativista do R io Cautã rio	NationalForest EnvironmentalProtection Area Extractive Reserve
Cristã polis Meandros do R b Aragua a R b do Cautã rb Serra da Cuta	F bresta Nacional de Cristã bolis à rea de Proteã § à £ o Ambiental Meandros do Araguaia Reserva Extrativista do R io Cautã rio Parque Nacional da Serra da Cutia	NationalForest Environm entalProtection Area Extractive Reserve NationalPark
Cristà polis Meandros do R o Araguaia R o do Cautà iro Serra da Cutia Barre iro das Antas	F bresta Nacional de Cristá polis Á rea de Proteá § Aão Ambienta IM eandros do Araguaia Reserva Extrativista do R io Cautá rio Parque Nacional da Serra da Cutia Reserva Extrativista Barre ro das Antas	National Forest Environmental Protection Area Extractive Reserve National Park Extractive Reserve
Cristă po lis Meandros do R io Araguaia R io do Caută rio Serra da Cutia Barre ro das Antas SeringalNova Esperană §	F bresta Nacional de Cristá polis Ärea de Proteá § Á £ o Ambiental Meandros do Araguaia Reserva Extrativista do R b Cautá rib Parque Nacional da Serra da Cutia Reserva Extrativista Barre iro das Antas à rea de Re bvante Interesse Eco ñ gica Seringal Nova Esperanã § a	National Forest Environmental Protection Area Extractive Reserve National Park Extractive Reserve Area of 0 utstanding Eco bgical Interest
Cristã po is Meandros do Rio Araguaia Rio do Cautário Serra da Cutia Barre ro das Antas Seringal Nova Esperanã § Serra Geraldo Tocantins	F bresta Nacional de Cristă (bolis Ärea de Proteă § Äšo Ambienta IM eandros do Aragua la Reserva Extrativista do R o Caută (rib Parque Nacional da Serra da Cutia Reserva Extrativista Barre iro das Antas Ārea de Re bvante Interesse Eco lă (gica Seringal Nova Esperană § a Estacao Eco b gica Serra Geral do Tocantins	National Forest Environmental Protection Area Extractive Reserve National Park Extractive Reserve Area of Outstanding Ecological Interest Ecological Station
Cristă po lis Meandros do R io Araguaia R io do Caută rio Serra da Cutia Barre ro das Antas SeringalNova Esperană §	F bresta Nacional de Cristá polis Ärea de Proteá § Á £ o Ambiental Meandros do Araguaia Reserva Extrativista do R b Cautá rib Parque Nacional da Serra da Cutia Reserva Extrativista Barre iro das Antas à rea de Re bvante Interesse Eco ñ gica Seringal Nova Esperanã § a	National Forest Environmental Protection Area Extractive Reserve National Park Extractive Reserve Area of 0 utstanding Eco bgical Interest
Cristă po is Meandros do R b Aragua a R b do Caută rib Serra da Cutia Barre ro das Antas Seringal Nova Esperană § Serra Geral do Tocantins Să£o Francisco Lagoa do Jequiă i Corobobă	F bresta Nacional de Cristă joo lis Ārea de Proteă Ş Ā£o Ambiental Meandros do Araguaia Reserva Extrativista do R io Caută jrio Parque Nacional da Serra da Cutia Reserva Extrativista Barre ro das Antas Ārea de Re evante Interesse Eco Ř 'gica Seringal Nova Esperană Ş a Estacao Eco bgica Serra Geral do Tocantins F bresta Nacional de SÃco Francisco Reserva Extrativista Marinha da Lagoa do Jequiñi Ārea de Re evante Interesse Eco Ř 'gico Corobobo	National Forest Environmental Protection Area Extractive Reserve National Park Extractive Reserve Area of 0 utstanding Ecobgical Interest Ecobgical Station National Forest Marine Extractive Reserve Area of 0 utstanding Ecobgical Interest
Cristă po is Meandros do R b Aragua ia R b do Caută rib Serra da Cutia Barre iro das Antas Seringal Nova Esperană § Serra Geral do Tocantins Să£o Francisco Lagoa do Jequă i Corobobă i Santa Rosa do Purus	F bresta Nacional de Cristă joo lis Ārea de P roteă Ş Ā £ o Ambiental M eandros do A raguaia Reserva Extrativista do R b Caută rib Parque Nacional da Serra da Cutia Reserva Extrativista Barre ro das Antas Ārea de Re bvante Interesse Eco Ř jca Seringal Nova Esperană Ş a Estacao Eco bgia Serra Geral do Tocantins F bresta Nacional de SÃ £ o Francisco Reserva Extrativista Mariha da Lagoa do Jequã i Ārea de Re bvante Interesse Eco Ř jcc Corobobo F bresta Nacional de Sa £ o Francisco	National Forest Environmental Protection Area Extractive Reserve National Park Extractive Reserve Area of 0 utstanding Ecobgical Interest Ecobgical Station National Forest Marine Extractive Reserve Area of 0 utstanding Ecobgical Interest National Forest National Forest
Cristă po is Meandros do R is Aragua ia R is do Caută ris Serra da Cutia Barre ro das Antas Serrigal Nova Esperană § Serra Geral do Tocantins Săŝo Francisco Lagoa do Jequiă i Corobobă* Santa Rosa do Purus Cazum bă i- Iracem a	F bresta Nac bnalde Cristă polis Ärea de Proteă șă Aso Ambental III eandros do Araguaia Reserva Extrativista do R b Caută r'b Parque Nac bnalda Serra da Cută Reserva Extrativista Barre ro das Antas Ärea de Re bvante Interesse Eco Ñ gica Seringal Nova Esperană șa Estacao Eco bgica Serra Geraldo Tocantins F bresta Nac bnalde Să So Francisco Reserva Extrativista Marinha da Lagoa do Jequi R i Ärea de Re bvante Interesse Eco Ñ gico Corobobo F bresta Nac bnalde Sa Sa Santa Rosa do Purus Reserva Extrativista Cazum bă i- racem a	National Forest Environmental Protection Area Extractive Reserve National Park Extractive Reserve Area of Outstanding Ecobgical Interest Ecobgical Station National Forest Marine Extractive Reserve Area of Outstanding Ecobgical Interest National Forest Marine Extractive Reserve Area of Outstanding Ecobgical Interest National Forest Extractive Reserve
Cristă po is Meandros do R b Aragua a R b do Caută rib Serra da Cutta Barre ro das Antas Seringal Nova Esperană ş Serra Geral do Tocantins Săso Francisco Lagoa do Jequiă i Corobobă ' Santa Rosa do Purus Cazumbă i Iracem a Murci	F bresta Nac bnalde Cristă po lis Ärea de Proteă Ş A Eo Ambiental III eandros do A raguaia Reserva Extrativista do R b Caută rio Parque Nac bnalda Serra da Cutia Reserva Extrativista Barre ro das Antas Ārea de R e bvante Interesse Eco Ř gica Seringal Nova Esperană Ş a Estacao Eco bgica Serra Geraldo Tocantins F bresta Nac bnalde S A Eo F rancisco Reserva Extrativista Marinha da Lagoa do Jequiã i Ārea de R e bvante Interesse Eco Ř gico Corobobo F bresta Nac bnalde S anta Rosa do Purus Reserva Extrativista Cazum bă i racem a Esta Ş Â Eo Eco Ř gica de Murici	National Forest Environmental Protection Area Extractive Reserve National Park Extractive Reserve Area of Outstanding Ecological Interest Ecological Station National Forest Marine Extractive Reserve Area of Outstanding Ecological Interest National Forest National Forest Extractive Reserve Ecological Station
Cristă po is Meandros do R b Aragua a R b do Caută rib Serra da Cutta Barre ro das Antas Seringal Nova Esperană ş Serra Geral do Tocantins Săso Francisco Lagoa do Jequiă i Corobobă ' Santa Rosa do Purus Cazumbă i Iracem a Murci	F bresta Nac bnalde Cristă polis Ärea de Proteă șă Aso Ambental III eandros do Araguaia Reserva Extrativista do R b Caută r'b Parque Nac bnalda Serra da Cută Reserva Extrativista Barre ro das Antas Ärea de Re bvante Interesse Eco Ñ gica Seringal Nova Esperană șa Estacao Eco bgica Serra Geraldo Tocantins F bresta Nac bnalde Să So Francisco Reserva Extrativista Marinha da Lagoa do Jequi R i Ärea de Re bvante Interesse Eco Ñ gico Corobobo F bresta Nac bnalde Sa Sa Santa Rosa do Purus Reserva Extrativista Cazum bă i- racem a	National Forest Environmental Protection Area Extractive Reserve National Park Extractive Reserve Area of Outstanding Ecobgical Interest Ecobgical Station National Forest Marine Extractive Reserve Area of Outstanding Ecobgical Interest National Forest Marine Extractive Reserve Area of Outstanding Ecobgical Interest National Forest Extractive Reserve
Cristă po is Meandros do R b Aragua a R b do Caută rib Serra da Cutia Barre ro das Antas Seringal Nova Esperană § Serra Geral do Tocantins Săso Franc sco Lagoa do Jequiă i Corobobă ' Santa Rosa do Purus Cazumbă i- Iracem a Murbi Nascentes do R b Parnaă-	F bresta Nacional de Cristá polis Ärea de Proteá § Aão Ambiental Meandros do Araguaia Reserva Extrativista do R b Cautá rio Parque Nacional da Serra da Cutia Reserva Extrativista Barre ro das Antas Ärea de Re byante Interesse Eco Á gica Seringal Nova Esperaná § a Estacao Eco bgica Serra Geral do Tocantris F bresta Nacional de São Francisco Reserva Extrativista Marinha da Lagoa do Jequíái Ärea de Re byante Interesse Eco Á gico Corobobo F bresta Nacional de Santa Rosa do Purus Reserva Extrativista Cazum bá i racem a Estaá § Aão Eco Á gica de Murici Parque Nacional das Nascentes do R b Parna ba	National Forest Environmental Protection Area Extractive Reserve Area of Outstanding Ecobgical Interest Ecobgical Station National Forest Marine Extractive Reserve Area of Outstanding Ecobgical Interest Ecobgical Station National Forest Marine Extractive Reserve Area of Outstanding Ecobgical Interest National Forest Extractive Reserve Ecobgical Station National Park
Cristă po is Meandros do R b Aragua a R b do Caută rib Serra da Cutta Barre ro das Antas Seringal Nova Esperană § Serra Geral do Tocantins Săŝo Franc isco Lagoa do Jequiă i Corobobă i Santa Rosa do Purus Cazumbă i-Iracema Murbi Nascentes do R b Pamaă- A to Tarauacă i Catin bau Lago do Cunãs	F bresta Nac bnalde Cristă po lis Ārea de Proteă Ş Âŝo Am biental III eandros do A raguaia Reserva Extrativista do R b Caută rio Parque Nac bnalda Serra da Cutta Reserva Extrativista Barre ro das Antas Ārea de R e bvante Interesse Eco Ř gica Seringal Nova Esperană Ş a Estacao Eco bgica Serra Geraldo Tocantins F bresta Nac bnalde S Āŝo F rancisco Reserva Extrativista Marinha da Lagoa do Jequi à i Ārea de R e bvante Interesse Eco Ř gico Corobobo F bresta Nac bnalde S añso F rancisco Reserva Extrativista Marinha da Lagoa do Jequi à i Ārea de R e bvante Interesse Eco Ř gico Corobobo F bresta Nac bnalde S anta Rosa do Purus Reserva Extrativista Cazum bǎ i racem a Esta Ş Âŝo Eco à gica de Murbi Parque Nac bnaldas Nascentes do R io Parnaba Reserva Extrativista A Ito Tarauacã i Parque Nac bnaldo Catin bau Reserva Extrativista Lago do Cun Ãŝ	National Forest Environmental Protection Area Extractive Reserve National Park Extractive Reserve Area of O utstanding Ecological Interest Ecological Station National Forest Marine Extractive Reserve Area of O utstanding Ecological Interest National Forest Extractive Reserve Ecological Station National Forest Extractive Reserve Ecological Station National Park Extractive Reserve National Park Extractive Reserve National Park Extractive Reserve
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Table A5 List of Protected Area in Brazil (continued, 10/25)

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Santo Antã ín b			
Serra Branca/Raso da Catãrea de Proteã § ão Ambenta ISerra Branca / Raso da Catarina State Environmenta I Protection Area			
Rio Capivara Ārea de ProteĀ ŞĀ£o AmbientalRio Capivara EnvironmentalProtection Area			
Pratigi Ā rea de Proteā § ão Ambiental Pratigi State Environmental Protection A rea			

Table A5 List of Protected Area in Brazil (continued, 11/25)

I I. D. I. I. O I	Tours de Dougle T o T o a Amelian tellen. De De des de Occus	10++- F
Lago de Pedra do Cava b Mangue Seco	Ārea de ProteĀ § Ā£o Ambienta ILago De Pedra do Cava b	State Environm ental Protection Area State Environm ental Protection Area
M angue Seco M arim bu/Iraquara	Mangue Seco Ārea de Proteção AmbientalMarimbus / Iraquara	State Environmental Protection Area State Environmental Protection Area
Lagoa de Itaparica	Lagoa de Itaparica	State Environmental Protection Area
Joanes Ipitanga	Joanes Ipitanga	State Environmental Protection Area
	Dunas e Veredas do Bako Mão dio Sã£o Francisco	State Environmental Protection Area
Coroa Vermeha	Ãrea de Proteção Ambienta Coroa Verme ha	State Environmental Protection Area
CaraÃ-va/Trancoso	Ãrea de Proteção Ambienta I CaraÃ-va/Trancoso	State Environmental Protection Area
BaÃ−a de Camamu	Ãrea de Proteção Ambienta IBaÃ-a De Camamu	State Environmental Protection Area
BaÃ-a de Todos os Santos	Ãrea de Proteção Ambienta IBaÃ-a De Todos Os Santos	State Environmental Protection Area
Bacia do Rio de Janeiro	Bacia do Rio de Janeiro	State Environmental Protection Area
	Ãrea de Proteà § ão Ambienta IBacia do Cobre / São Barto bmeu	State Environmental Protection Area
	à rea de Proteà § à £ o Ambienta Plataform a Continenta do Litora Norte	State Environmental Protection Area
	Ärea de Proteà § ão AmbentalLagoa Encantada Ärea de Proteà § ão AmbentalCosta De Itacarà © / Serra Grande	State Environm ental Protection Area State Environm ental Protection Area
	A rea de ProteA § A£o Ambenta IC am nhos Eco A gcos da Boa EsperanA §	State Environmental Frotecton Area
Boa Esperanç a	a	State EnvironmentalProtection Area
A raucã ir ias	A rauc Ãirias	S tate P ark
Fritz P laum ann	Fritz P laum ann	S tate P ark
R io Canoas	R ip Canoas	S tate Park
Acarai	Acarai	S tate P ark
à guas Vertentes	Ãrea de Proteção AmbientalÃguas Vertentes	State Environmental Protection Area
Barre ira Branca	Barre ra Branca	State Environmental Protection Area
Chapada dos Gu in arães	Chapada dos Guinni arà £es	State Environmental Protection Area
Escarpa Devoniana	Escarpa Devoniana	State Environmental Protection Area
Serra da Esperanç a	Serra da Esperanà § a	State Environmental Protection Area
Serra da Jbóa	à rea de Proteà § à £ o Am bienta I Serra da J bà ³ ia	Environmental Protection Area
Pireneus	Ãrea de Proteà § ão Ambientaldos Pireneus	Environmental Protection Area
Serra Geralde Goñs	Ãrea de Proteção AmbientalSerra Geralde GoÃjs Nascentes de AraguaÃ-na	Environm ental Protection Area State Environm ental Protection Area
Conce à § ão da Barra	Nascerites de Araguaa-ria Conce à § ão da Barra	State Environmental Protection Area
Go apaba-Aç u	Go apaba-AÃ § u	S tate Environmental Protection Area
Guanandy	Guanandy	State Environmental Protection Area
Praia Mole	Praia Mole	S tate Environmental Protection Area
Trà °s Ihas	Trà °s Ihas	State Environmental Protection Area
Rio Irai	R io Irai	State Environmental Protection Area
R b Passauna	R io Passauna	State Environmental Protection Area
R io Pequeno	R io Pequeno	State Environmental Protection Area
R b P iraquara	R io P iraquara	State EnvironmentalProtectionArea
R io Verde	R io V erde	State Environmental Protection Area
R io Verde Salto Magessi	R io Verde Salto Magessi	State Environm ental Protection Area State Environm ental Protection Area
R b Verde Salto Magessi Meandros do R b Araguaia	R io Verde Salto Magessi M eandros do R io A ragua ia	State Environm ental Protection Area State Environm ental Protection Area State Environm ental Protection Area
R iz Verde S a Ito M agessi M eandros do R iz A ragua iz Fernã £ o D ias	R is Verde Salto Magessi M eandros do R is Aragua is à rea de Proteà § Ã&o Ambienta FernÃ&o D ias	State EnvironmentalProtection Area State EnvironmentalProtection Area State EnvironmentalProtection Area State EnvironmentalProtection Area
R b Verde Salto Magessi Meandros do R b Araguala Fernã £ o D las Foz do R b Santa Tereza	R b Verde Sa Ibo Magessi Meandros do R b Aragua a Ārea de ProteĀ ṢĀĒo Ambien tal FernĀĒo Dias Ārea de ProteĀ ṢĀĒo Ambien tal Foz do R b Santa Tereza	State EnvironmentalProtection Area State EnvironmentalProtection Area State EnvironmentalProtection Area State EnvironmentalProtection Area EnvironmentalProtection Area
R b Verde Salto Magessi Meandros do R b Aragua ia Fernã £ o D ias Foz do R b Santa Tereza Guaraqueã § aba	R b Verde Salto Magessi Meandros do R b Aragua ia Ārea de ProteĀ Ş Ā£o AmbientalFernĀ£o D ias Ārea de ProteĀ Ş Ā£o AmbientalFoz do R b Santa Tereza GuaraqueĀ Ş aba	State EnvironmentalProtection Area State EnvironmentalProtection Area State EnvironmentalProtection Area State EnvironmentalProtection Area EnvironmentalProtection Area State EnvironmentalProtection Area
R b Verde Salto M agessi M eandros do R b A ragua a Femà & D bas Foz do R b Santa Tereza Guaraqueà § aba Iha do Banana / Cantã & o	R b Verde Salto Magessi Meandros do R b Aragua a Ãrea de Proteà ŞÃ&o AmbentalFernÃ&o D as Ārea de Proteà ŞÃ&o AmbentalFoz do R b Santa Tereza Guaraqueà Şaba Ãrea de Proteà ŞÃ&o AmbentalIha do Bananal/cantÃ&o	State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area
R is Verde Salto Magessi Meandros do R is Araguais Fernás o D iss Foz do R is Santa Tereza Guaraqueá § aba Iha do Banana/Cantás o Jalapás o	R b Verde Salto Magessi Meandros do R b Aragua ia Ārea de ProteĀ Ş Ā£o AmbientalFernĀ£o D ias Ārea de ProteĀ Ş Ā£o AmbientalFoz do R b Santa Tereza GuaraqueĀ Ş aba	State EnvironmentalProtection Area State EnvironmentalProtection Area State EnvironmentalProtection Area State EnvironmentalProtection Area EnvironmentalProtection Area State EnvironmentalProtection Area
R b Verde Salto M agessi M eandros do R b A ragua a Femà & D bas Foz do R b Santa Tereza Guaraqueà § aba Iha do Banana / Cantã & o	R b Verde Sa to Magessi Meandros do R b Araguaia Ärea de ProteÄ § Å&o Ambienta I FernÃ&o D ias Ärea de ProteÄ § Ä&o Ambienta I FernÃ&o D ias Ärea de ProteÄ § Ä&o Ambienta I Foz do R b Santa Tereza GuaraqueÄ § aba Ärea de ProteÄ § Å&o Ambienta I I ha do Banana I / cantÃ&o Ärea de ProteÄ § Ä&o Ambienta I JaapÃ&o	State EnvironmentalProtection Area State EnvironmentalProtection Area State EnvironmentalProtection Area State EnvironmentalProtection Area State EnvironmentalProtection Area EnvironmentalProtection Area State EnvironmentalProtection Area State EnvironmentalProtection Area EnvironmentalProtection Area EnvironmentalProtection Area
R b Verde Salto Magessi Meandros do R b Araguaia Fermãs o D is Foz do R b Santa Tereza Guaraqueã § aba Iha do Bananal/Cantãs o Jalpãs o Lago de Palmas Lago de Pelec/Angbal Lago de Santa Isabe I	R b Verde Salto Magessi Meandros do R b Aragua ia Ārea de ProteĀ ŞĀŠo AmbientalFernĀšo D ias Ārea de ProteĀ ŞĀŠo AmbientalFoz do R b Santa Tereza GuaraqueĀ Şaba Ārea de ProteĀ ŞĀŠo Ambiental Iha do Bananal/cantĀšo Ārea de ProteĀ ŞĀŠo Ambiental JalapĀšo Ārea de ProteĀ ŞĀŠo AmbientalJalapĀšo Ārea de ProteĀ ŞĀŠo AmbientalJalapĀso Ārea de ProteĀ ŞĀŠo AmbientalLago de Palmas Ārea de ProteĀ ŞĀŠo AmbientalLago de Pa ke/angisal Ārea de ProteĀ ŞĀŠo AmbientalLago de Pa ke/angisal	State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area Environmental Protection Area Environmental Protection Area Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area
R is Verde Salto Magessi Meandros do R is Araguais Fernás o D iss Foz do R is Santa Tereza Guaraque & § aba Ilha do Bananal/Cantás o Jalapás o Lago de Paln as Lago de Pe ke/Angial Lago de Santa Isabel Lago de Santa Isabel	R b Verde Sa to Magessi Meandros do R b Araguaia Ārea de ProteĀ Ṣ Ā£o AmbientalFernĀ£o D ias Ārea de ProteĀ Ṣ Ā£o AmbientalFoz do R b Santa Tereza GuaraqueĀ Ṣ aba Ārea de ProteĀ Ṣ Ā£o AmbientalIha do Bananal/cantĀ£o Ārea de ProteĀ Ṣ Ā£o AmbientalIha do Bananal/cantĀ£o Ārea de ProteĀ Ṣ Ā£o AmbientalJalapĀ£o Ārea de ProteĀ Ṣ Ā£o AmbientalLago de Palmas Ārea de ProteĀ Ṣ Ā£o AmbientalLago de Pe ke/angbal Ārea de ProteĀ Ṣ Ā£o AmbientalLago De Santa Isabel Lago de S£o Salvador do Tocanths, Paran£ e	State EnvironmentalProtection Area State EnvironmentalProtection Area State EnvironmentalProtection Area State EnvironmentalProtection Area State EnvironmentalProtection Area EnvironmentalProtection Area State EnvironmentalProtection Area State EnvironmentalProtection Area EnvironmentalProtection Area EnvironmentalProtection Area EnvironmentalProtection Area EnvironmentalProtection Area State EnvironmentalProtection Area State EnvironmentalProtection Area
R b Verde Salto Magessi Meandros do R b Araguaia Fernãs o D ias Foz do R b Santa Tereza Guaraqueã § aba Iha do Bananal/Cantãs o Jaipoãs o Lago de Pain as Lago de Peixe/Angbal Lago de Santa Isabe I Lago de Safa Sabe I Lago de Safa Salvador do Lajedãs o	R b Verde Sa to Magessi Meandros do R b Araguaia Ārea de ProteĀ Ṣ Ā£o Ambiental FernĀ£o D ias Ārea de ProteĀ Ṣ Ā£o Ambiental Foz do R b Santa Tereza GuaraqueĀ Ṣ aba Ārea de ProteĀ Ṣ Ā£o Ambiental I Iha do Bananal / cantĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental JalapĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental JalapĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental Lago de Palmas Ārea de ProteĀ Ṣ Ā£o Ambiental Lago de Pe ke / angical Ārea de ProteĀ Ṣ Ā£o Ambiental Lago de Pe ke / angical Ārea de ProteĀ Ṣ Ā£o Ambiental Lago De Santa Isabel Lago de S£o Salvador do Tocantins, Paran£ e Ārea de ProteĀ Ṣ Ā£o Ambiental LagoĀ£o	State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area
R b Verde S alto M agessi M eandros do R b A ragua a Fermã & o D is Foz do R b Santa Tereza Guaraqueã § aba Iha do B anana / Cantã & o Jalpã & o Lago de P a la as Lago de Pala salago de Santa Isabe I Lago de Sã & o Salvador do Lago de Sã & o Salvador do Pouso Alto	R b Verde Sa to Magessi M eandros do R b Araguaia Ārea de ProteĀ Ṣ Ā£o Ambiental FernĀ£o D ias Ārea de ProteĀ Ṣ Ā£o Ambiental Foz do R b Santa Tereza GuaraqueĀ Ṣ aba Ārea de ProteĀ Ṣ Ā£o Ambiental Ilha do Banana I/cantĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental JabpĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental Lago de Pain as Ārea de ProteĀ Ṣ Ā£o Ambiental Lago de Pain as Ārea de ProteĀ Ṣ Ā£o Ambiental Lago de Pe ike/angical Ārea de ProteĀ Ṣ Ā£o Ambiental Lago De Santa Isabel Lago de S£o Salvador do Tocantins, Paran£ e Ārea de ProteĀ Ṣ Ā£o Ambiental LaġoĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental LaġoĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental LaġoĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental LaġoĀ£o	State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area
R is Verde Salto Magessi Meandros do R is Araguais Fernāšo D iss Foz do R is Santa Tereza Guaraqueā § aba Iha do Banana // Cantāšo Jalapāšo Lago de Palmas Lago de Palmas Lago de Peike/Angisal Lago de Santa Isabe I Lago de Sāto Salvador do Laģidāšo Pouso Alto Rota do Sol	R b Verde Sa to Magessi Meandros do R b Araguaia Ārea de ProteĀ Ṣ Ā£o Ambiental FernĀ£o D ias Ārea de ProteĀ Ṣ Ā£o Ambiental Foz do R b Santa Tereza GuaraqueĀ Ṣ aba Ārea de ProteĀ Ṣ Ā£o Ambiental Iha do Bananal/cantĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental Iha do Bananal/cantĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental Ilago de Palm as Ārea de ProteĀ Ṣ Ā£o Ambiental Lago de Pa ika Sarea de ProteĀ Ṣ Ā£o Ambiental Ilago de Pe ike/angical Ārea de ProteĀ Ṣ Ā£o Ambiental Ilago De Santa Isabel Lago de S£o Salvador do Tocantins, Paran£ e Ārea de ProteĀ Ṣ Ā£o Ambiental IlagoĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental IlagoĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental IlagoĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental IlagoĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental IlagoĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental IlagoĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental IlagoĀ£o	State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area
R b Verde Salto Magessi Meandros do R b Araguaia Fernãs o D ias Foz do R b Santa Tereza Guaraqueã § aba Iha do Banana/Cantãs o Jalapãs o Lago de Palmas Lago de Palmas Lago de Santa Isabe I Lago de Santa Isabe I Lago de Sãs o Salvador do Lajedãs o Pouso Alto Rota do Sol Sem hã rio Menor de Maria	R b Verde Sa to Magessi Meandros do R b Araguaia Ārea de ProteĀ Ṣ Ā£o Ambiental FernĀ£o D ias Ārea de ProteĀ Ṣ Ā£o Ambiental Foz do R b Santa Tereza GuaraqueĀ Ṣ aba Ārea de ProteĀ Ṣ Ā£o Ambiental I ha do Bananal/cantĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental I ha do Bananal/cantĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental JalapĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental Lago de Palmas Ārea de ProteĀ Ṣ Ā£o Ambiental Lago de Pe ke/angtal Ārea de ProteĀ Ṣ Ā£o Ambiental Lago De Santa Isabel Lago de S£o Salvador do Tocantins, Paran£e Ārea de ProteĀ Ṣ Ā£o Ambiental LaġdĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental LaġdĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental LaġdĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental LaġdĀ£o Salvador do Tocantins, Paran£e Ārea de ProteĀ Ṣ Ā£o Ambiental Pouso A Ito Soul Sem hĀ rib Menor de Mariana	State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area
R b Verde Salto Magessi Meandros do R b Araguaia Fernãs o D ias Foz do R b Santa Tereza Guaraqueã § aba Iha do Bananal/Cantãs o Jaipoãs o Lago de Pain as Lago de Peixe/Angbal Lago de Santa Isabe I Lago de Safa o Salvador do Lajdrãs o Pouso Alto Rota do Sol Sem nã řio Menor de Maris Serra das Gaãos e da Por	R b Verde Sa to Magessi Meandros do R b Araguaia Ārea de ProteĀ Ṣ Ā£o Ambiental FernĀ£o D ias Ārea de ProteĀ Ṣ Ā£o Ambiental Foz do R b Santa Tereza GuaraqueĀ Ṣ aba Ārea de ProteĀ Ṣ Ā£o Ambiental Iha do Bananal/cantĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental JalapĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental JalapĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental Lago de Palmas Ārea de ProteĀ Ṣ Ā£o Ambiental Lago de Pe ke/angical Ārea de ProteĀ Ṣ Ā£o Ambiental Lago De Santa Isabel Lago de S£o Salvador do Tocantins, Paran£ e Ārea de ProteĀ Ṣ Ā£o Ambiental LagoĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental LagoĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental LagoĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental Pouso A Ito Rota do Sol Sol mār jo Mienor de Mariana Ārea de ProteĀ Ṣ Ā£o Ambiental Serra Das GaÃos E Da Portaria	State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area
R b Verde Salto Magessi Meandros do R b Araguaia Fernãs D ias Foz do R b Santa Tereza Guaraqueã § aba Ilha do Banana / Cantã so Jabpã so Lago de Palhas Lago de Palhas Lago de Santa Isabe I Lago de Saso Salvador do La pdãs O Pouso Alto Rota do Sol Sem nã rib Menor de Maris Serra das Gaãos e da Por Serra do La pado	R b Verde Sa to Magessi Meandros do R b Araguaia Ārea de ProteĀ Ş Ā£o Ambiental FernĀ£o D ias Ārea de ProteĀ Ş Ā£o Ambiental FernĀ£o D ias Ārea de ProteĀ Ş Ā£o Ambiental Foz do R b Santa Tereza GuaraqueĀ Ş aba Ārea de ProteĀ Ş Ā£o Ambiental Ilha do Bananal/cantĀ£o Ārea de ProteĀ Ş Ā£o Ambiental JalapĀ£o Ārea de ProteĀ Ş Ā£o Ambiental Lago de Pain as Ārea de ProteĀ Ş Ā£o Ambiental Lago de Pain as Ārea de ProteĀ Ş Ā£o Ambiental Lago de Pe ke/angical Ārea de ProteĀ Ş Ā£o Ambiental Lago De Santa Isabel Lago de S£o Salvador do Tocantins, Paran£e Ārea de ProteĀ Ş Ā£o Ambiental La jadĀ£o Ārea de ProteĀ Ş Ā£o Ambiental La jadĀ£o Ārea de ProteĀ Ş Ā£o Ambiental La jadĀ£o Ārea de ProteĀ Ş Ā£o Ambiental La jadĀ£o Ārea de ProteĀ Ş Ā£o Ambiental Basanda Alto Rota do Sol Sem hĀ rib Menor de Mariana Ārea de ProteĀ Ş Ā£o Ambiental da Serra Das GaÃos E Da Portaria Ārea de ProteĀ Ş Ā£o Ambiental Serra Das GaÃos E Da Portaria	State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area
R b Verde Sato Magessi Meandros do R b Araguaia Fernāšo D iss Foz do R b Santa Tereza Guaraqueā § aba Iha do Banana / Cantāšo Jaipāšo Lago de Paln as Lago de Paln as Lago de Paln as Lago de Santa Isabe I Lago de Santa Isabe I Lago de Santa Isabe I Cago de Palna I Cago	R b Verde Sa to Magessi Meandros do R b Araguaia Ārea de ProteĀ Ş Ā£o Ambiental FernĀ£o D ias Ārea de ProteĀ Ş Ā£o Ambiental Foz do R b Santa Tereza GuaraqueĀ Ş aba Ārea de ProteĀ Ş Ā£o Ambiental Iha do Bananal/cantão Ārea de ProteĀ Ş Ā£o Ambiental Iha do Bananal/cantão Ārea de ProteĀ Ş Ā£o Ambiental Ilago de Palmas Ārea de ProteĀ Ş Ā£o Ambiental Lago de Pa imas Ārea de ProteĀ Ş Ā£o Ambiental Ilago de Pe imas Ārea de ProteĀ Ş Ā£o Ambiental Ilago de Pe imas Ārea de ProteĀ Ş Ā£o Ambiental Ilago De Santa Isabel Lago de S£o Salvador do Tocantins, Paran£ e Ārea de ProteĀ Ş Ā£o Ambiental IlagoĀ£o Ārea de ProteĀ Ş Ā£o Ambiental IlagoĀ£o Rota do Sol Sem hĀ rio Menor de Mariana Ārea de ProteĀ Ş Ā£o Ambiental Ida Serra Das GaÃos E Da Portaria Ārea de ProteĀ Ş Ā£o Ambiental Ida Serra Das GaÃos E Da Portaria Ārea de ProteĀ Ş Ā£o Ambiental Serra do Laġado Serra SĀ£o JosĀ	State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area
R b Verde Salto Magessi Meandros do R b Araguaia Fernãs D ias Foz do R b Santa Tereza Guaraqueã § aba Ilha do Banana / Cantã so Jabpã so Lago de Palhas Lago de Palhas Lago de Santa Isabe I Lago de Saso Salvador do La pdãs O Pouso Alto Rota do Sol Sem nã rib Menor de Maris Serra das Gaãos e da Por Serra do La pado	R b Verde Sa to Magessi Meandros do R b Araguaia Ārea de ProteĀ Ş Ā£o Ambiental FernĀ£o D ias Ārea de ProteĀ Ş Ā£o Ambiental FernĀ£o D ias Ārea de ProteĀ Ş Ā£o Ambiental Foz do R b Santa Tereza GuaraqueĀ Ş aba Ārea de ProteĀ Ş Ā£o Ambiental Ilha do Bananal/cantĀ£o Ārea de ProteĀ Ş Ā£o Ambiental JalapĀ£o Ārea de ProteĀ Ş Ā£o Ambiental Lago de Pain as Ārea de ProteĀ Ş Ā£o Ambiental Lago de Pain as Ārea de ProteĀ Ş Ā£o Ambiental Lago de Pe ke/angical Ārea de ProteĀ Ş Ā£o Ambiental Lago De Santa Isabel Lago de S£o Salvador do Tocantins, Paran£e Ārea de ProteĀ Ş Ā£o Ambiental La jadĀ£o Ārea de ProteĀ Ş Ā£o Ambiental La jadĀ£o Ārea de ProteĀ Ş Ā£o Ambiental La jadĀ£o Ārea de ProteĀ Ş Ā£o Ambiental La jadĀ£o Ārea de ProteĀ Ş Ā£o Ambiental Basanda Alto Rota do Sol Sem hĀ rib Menor de Mariana Ārea de ProteĀ Ş Ā£o Ambiental da Serra Das GaÃos E Da Portaria Ārea de ProteĀ Ş Ā£o Ambiental Serra Das GaÃos E Da Portaria	State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area
R b Verde Salto Magessi Meandros do R b Araguaia Fernāšo D ias Foz do R b Santa Tereza Guaraqueā § aba Iha do Banana/Cantāŝo Jalapāšo Lago de Palmas Lago de Palmas Lago de Santa Isabe I Lago de Santa Isabe I Lago de Sāŝo Salvador do Lajedāŝo Pouso Alto Rota do Sol Sem hā rib Menor de Maris Serra das Gaños e da Por Serra das Gaños e da Por Serra das Gaños	R b Verde Sa to Magessi Meandros do R b Araguaia Ārea de ProteĀ Ṣ Ā£o Ambiental FernĀ£o D ias Ārea de ProteĀ Ṣ Ā£o Ambiental Foz do R b Santa Tereza GuaraqueĀ Ṣ aba Ārea de ProteĀ Ṣ Ā£o Ambiental I ha do Bananal/cantĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental I ha do Bananal/cantĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental JaipĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental Lago de Palmas Ārea de ProteĀ Ṣ Ā£o Ambiental Lago de Pe ke/angtal Ārea de ProteĀ Ṣ Ā£o Ambiental Lago De Santa Isabel Lago de S£o Salvador do Tocantins, Paran£ e Ārea de ProteĀ Ṣ Ā£o Ambiental LajedĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental Pouso A Ito Rota do Sol Sem hĀ irb Menor de Mariana Ārea de ProteĀ Ṣ Ā£o Ambiental Ida Serra Das GaÑos E Da Portaria Ārea de ProteĀ Ṣ Ā£o Ambiental Ida Serra Das GaÑos E Da Portaria Ārea de ProteĀ Ṣ Ā£o Ambiental I Serra Das GaÑos E Da Portaria Ārea de ProteĀ Ṣ Ā£o Ambiental Serra Das GaÑos E Da Portaria Ārea de ProteĀ Ṣ Ā£o Ambiental Serra Das GaÑos E Da Portaria	State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area
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R b Verde Salto Magessi Meandros do R b Araguaia Fernāšo D ias Foz do R b Santa Tereza Guaraqueā § aba Iha do Banana/Cantāŝo Jalpašo Lago de Palmas Lago de Palmas Lago de Santa Isabe I Lago de Santa Isabe I Lago de Saña Isabe I Lago de Saña Isabe I Sago de Pous Isabe I Sago de Pous	R is Verde Sa to Magessi Meandros do R is Araguaia Ārea de ProteĀ Ṣ Ā£o Ambiental FernĀ£o D ias Ārea de ProteĀ Ṣ Ā£o Ambiental Foz do R is Santa Tereza GuaraqueĀ Ṣ aba Ārea de ProteĀ Ṣ Ā£o Ambiental Iha do Bananal/cantĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental Iha do Bananal/cantĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental Ilago de Palmas Ārea de ProteĀ Ṣ Ā£o Ambiental Lago de Palmas Ārea de ProteĀ Ṣ Ā£o Ambiental Ilago de Pe ke/angical Ārea de ProteĀ Ṣ Ā£o Ambiental Ilago De Santa Isabel Lago de S£o Salvador do Tocantins, Paran£e Ārea de ProteĀ Ṣ Ā£o Ambiental IlaģoĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental IlaģoĀ£o Ārea de ProteĀ Ṣ Ā£o Ambiental Pouso A Ito Rota do Sol Sem hĀ irb Menor de Mariana Ārea de ProteĀ Ṣ Ā£o Ambiental Ida Serra Das GaĀos E Da Portaria Ārea de ProteĀ Ṣ Ā£o Ambiental Iserra do Lajado Serra SĀ£o Josāo R is Doce Barre iro Catariha Cercadinho Confus£o	State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Area of Special Protection State Area of Special Protection State Area of Special Protection State Area of Special Protection State Area of Special Protection State Area of Special Protection
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R b Verde Salto Magessi Meandros do R b Araguaia Fernás o D iss Foz do R b Santa Tereza Guaraqueá § aba Iha do Bananal/Cantás o Jalapás o Lago de Palmas Lago de Palmas Lago de Palmas Lago de Santa Isabe I Lago de Santa Isabe I Lago de Santa Isabe I Lago de Santa Isabe I Lago de Santa Isabe I Sego de Palmas Serra das Gañas e da Por Serra do Lajado Serra Sáso Josão R b Doce Barre iro Catarina Cercadinho Confusãs o Cârrego Fe b e Fundo e A Lapa Nova da Vazante	R is Verde Sato Magessi Meandros do R is Araguaia Ärea de ProteÄ § Äŝo Ambiental FernÃŝo D ias Ärea de ProteÄ § Äŝo Ambiental Foz do R is Santa Tereza Guaraqueà § aba Ärea de Proteà § Äŝo Ambiental Iha do Bananal/cantÃŝo Ärea de Proteà § Äŝo Ambiental Ilado de Palmas Ärea de Proteà § Áŝo Ambiental Lago de Palmas Ärea de Proteà § Áŝo Ambiental Lago de Palmas Ärea de Proteà § Áŝo Ambiental Lago de Peixe/angical Ärea de Proteà § Áŝo Ambiental Lago De Santa Isabel Lago de Sãŝo Salvador do Tocantins, ParanÃŝ e Ärea de Proteà § Áŝo Ambiental Lago De Santa Isabel Lago de Sãŝo Salvador do Tocantins, ParanÃŝ e Ärea de Proteà § Áŝo Ambiental LajedÃŝo Area de Proteà § Áŝo Ambiental Pouso Alto Rota do Sol Sem hà irio Menor de Mariana Ärea de Proteà § Áŝo Ambiental da Serra Das Gaños E Da Portaria Ärea de Proteà § Áŝo Ambiental Serra do Lajeado Serra SÃŝo JosÃo R io Doce Barre iro Catarina Cercadinho ConfusÃŝo CÃ 'rrego Fe is e Fundo e Areia Laja Nova da Vazante	State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Area of Special Protection State Area of Special Protection State Area of Special Protection State Area of Special Protection State Area of Special Protection State Area of Special Protection State Area of Special Protection State Area of Special Protection State Area of Special Protection State Area of Special Protection State Area of Special Protection State Area of Special Protection State Area of Special Protection State Area of Special Protection
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R b Verde Sato Magessi Meandros do R b Araguaia Fernás o D iss Foz do R b Santa Tereza Guaraque	R is Verde Sato Magessi Meandros do R is Araguaia Ärea de ProteÄ § Å&o Ambiental FernÃ&o D ias Ärea de ProteÄ § Å&o Ambiental Foz do R is Santa Tereza GuaraqueÄ § aba Ärea de ProteÄ § Å&o Ambiental Iha do Bananal/cantÃ&o Ärea de ProteÄ § Å&o Ambiental Iha do Bananal/cantÃ&o Ärea de ProteÄ § Å&o Ambiental Lago de Paln as Ärea de ProteÄ § Å&o Ambiental Lago de Paln as Ärea de ProteÄ § Å&o Ambiental Lago de Peixe/angical Ärea de ProteÄ § Å&o Ambiental Lago De Santa Isabel Lago de Sã&o Salvador do Tocantins, ParanÃ& e Ärea de ProteÄ § Å&o Ambiental Lago De Santa Isabel Lago de Sã&o Salvador do Tocantins, ParanÃ& e Ärea de ProteÄ § Å&o Ambiental Lago De Santa Isabel Sem hà iris Menor de Mariana Ärea de ProteÄ § Å&o Ambiental Serra Das GaÃos E Da Portaria Ärea de ProteÄ § Å&o Ambiental Serra Das GaÃos E Da Portaria Ärea de ProteÄ § Å&o Ambiental Serra do Laġado Serra SÃ&o JosÃo R is Doce Barre iro Catarina Cercadinho ConfusÃ&o CÃ 'rrego Fe be e Fundo e Areia Laga Nova da Vazante Mutuca P iso do bituruna R be rÃ&o do Urubu Ro B-Moà § a e Bà isamo	State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area Environmental Protection Area Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Environmental Protection Area State Area of Special Protection
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Source: http://protectedplanet.net

Table A5 List of Protected Area in Brazil (continued, 12/25)

Iha do Mel	Parque Estadual da Iha do Mel	S tate Park
Cachoe ra do Urubu	Cachoe ra do Urubu	State Environmental Protection Area
S erra das M angabe ras	Serra das Mangabeiras	State Environmental Protection Area
R ange I	R ange I	State Environmental Protection Area
Antã ´n io Mujica Nava	Antã ´n io Mu jica Nava	State Ecobgical Station
A cauã	Estaà § ão Eco à gica de Acauã	Eco bgical Station
à gua L in pa A ngatuba	Estaà § ão Eco à 'gica de Ãgua L in pa Estaà § ão Eco à 'gica Angatuba	Eco bgical Station Eco bgical Station
Assis	Estaà § ão Eco à ³gica de Assis	Eco bgical Station
CÃ ³rrego dos Fechos	Estaà § ão Eco à 'gica de Fechos	Eco bgical Station
Corum bã i	Estaà § ão Eco à ³gica de Corum bà j	Eco bgical Station
Caða	Caða	S tate EcobgicalS tation
A ratinga	Aratinga	State Ecobgical Station
Fernandes Pinheiro	Fernandes Pinheiro	State Ecobgical Station
Mar de Espanha	Estaà § ão Eco à ³gica M ar de Espanha	Eco bgical Station
M ata do Cedro M ata dos Ausentes	Estaà § ão Eco à 'gica M ata do Cedro Estaà § ão Eco à 'gica M ata dos Ausentes	Eco bgical Station Eco bgical Station
M ogiGuaà § ð	Estaà § ão Eco à gca maia dos Ausentes Estaà § ão Eco à gca MogiGuaà § à °	Eco bgcal Station
Paranapanem a	Estaà § ão Eco à 'gica de Paranapanem a	Eco bgical Station
R io da Casca	R io da Casca	S tate Ecobgical Station
R b dos Touros	R io dos Touros	S tate Ecobgical Station
Santa Maria	Estação Ecoógica de Santa Maria	Eco bg cal Station
A raraquara	Araraquara	State Extractive Station
Assis	Assis	State Extractive Station
Bauru Banta Oukha	Bauru Basto Oukina	State Extractive Station
Bento Quirho Buri	Bento Quirno Buri	S tate Extractive S tation S tate Extractive S tation
Casa Branca	Casa B ranca	State Extractive Station
Itape tin inga	Itapetninga	State Extractive Station
Itapeva	Itapeva	State Extractive Station
Itararà ©	Itararà ◎	State Extractive Station
Itrapina	Itirapina	State Extractive Station
Jað	Jað	State Extractive Station
Luis Antã ínio	Luis Antã ínio	State Extractive Station
MarÃ-lia MogiGuaçð	MarÃ-la MogiGuaçð	State Extractive Station State Extractive Station
MogiM rm	MogiN rm	State Extractive Station
Paraguaç u Paulista	Paraguaà § u Pau lista	State Extractive Reserve
P ederne iras	Pederne ras	State Extractive Station
	Santa Rita do Passa Quatro	State Extractive Station
	São José do R b Preto	S tate Extractive S tation
Tupi	Tupi	State Extractive Station
A ngatuba	Angatuba Prototo is	State Forest
B atata is B ebedou ro	Batata's Bebedouro	S tate Forest S tate Forest
Cajuru	Cajiru	State Forest
A ragua ia	F bresta Estadualdo A ragua ia	State Forest
Palm ito	Palm ito	State Forest
Edmundo Navarro de Andra	Edmundo Navarro de Andrade	State Forest
M anduri	M anduri	State Forest
Paranapanem a	Paranapanem a	State Forest
Piraju Santa Pã inhara I	Piraju Santa Pā ishara I	State Forest
Santa Bã irbara I Santa Bã irbara II	Santa BÃ irbara I Santa BÃ irbara II	S tate Forest S tate Forest
Ces Ã ro Lange	Cesã ro Lange	0 ther Area
Gerado Russi	Gerado Russi	0 ther Area
Palmital	Pah ital	0 ther Area
	à rvores Fossilizadas do Est do Tocantins	State Nature Monument
Itapeva	Itapeva	S tate P ark
A guapeà -	Parque Estadualdo AguapeÃ-	State Park
à guas do Cuiabà i	à guas do Cu abà i	State Park
A berto Lofgren	A berto Lofgren Parque Estadua I A Itam iro de Moura Pacheco	State Park
Birbiri	Parque Estaduala itam ro de moura Pacheco Parque EstadualBirbiri	S tate Park S tate Park
Campina do Encantado	Parque Estadualda Campina do Encantado	State Park
Cristalino I	Cristalino I	S tate P ark
Cristalno II	Cristalino II	S tate P ark
Cidade Mã£e BonifÃicia	Cidade Mã£e BonifÃicia	State Park
Iha do Mel	Iha do Mel	State Park
Mata SÃ £ o Francisco	Mata São Francisco	State Park
Nascente R io Taquari	Parque Estadual das Nascentes do R io Taquari	State Park
Saðde Serra Azul	Saðde Serra Azul	S tate Park S tate Park
Serra da Baitaca	Serra da Baitaca	State Park
Serra Dourada	Parque Estadual da Serra dourada	State Park
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Source: Explore Protected Areas, http://protectedplanet.net

Table A5 List of Protected Area in Brazil (continued, 13/25)

Parque Estabula de Parque Stabula de Parque No. Ferra Ronca Parque Estabula de Parque Stabula de Parq	N	Normatica de Die Domo 7 de	Io D l
Sonora			S tate Park
Terra Roncas Parque Estudual do Française State Park State Park			
Angusan			
Sogue Sogue Sogue Sogue State Park			
Cart N.			
Gerrado Cerrado Cerrado State Park			
Guarta R.I. Guarta			
State Park Sta			
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SãO Donato State B b b g balReserve Jacarenema Jacarenema BGE State Eco bg balReserve Guarba/Rooseve lt State Eco bg balReserve Lagoa São Pau b Lagoa São Pau b CÅ Trego da B iţu inha State Extractive Station Jurem a State Forest Reserve Satinho State Forest Reserve State Forest Reserve State Forest Reserve			
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Saltinho State Forest Reserve			
Seca § A‰o F gue ra e Sa Seca § A‰o F gue ra e Saltnho S tate Forest Reserve			
	აeca § A ხი F gue ira e S a	Seca § Aão Figueira e Saltinho	S tate Forest Reserve

Source: Explore Protected Areas, http://protectedplanet.net

Table A5 List of Protected Area in Brazil (continued, 14/25)

	`	, ,
Banhado dos Pachecos	Banhado dos Pachecos	State Wildlife Refuge
Corixã£o da Mata Azul	Corkão da M ata A zu l	S tate W idlife R e fuge
Que lá ´n io do A ragua ia	Que Á ´n io do Araguaia	State Wildlife Refuge
R io Cristalino	R io Cristalino	S tate W idlife R e fuge
R io das Mortes	R io das M ortes	State Wildlife Refuge
SeringalTriunfo	SerngalTrunfo	0 ther A rea
Sagarana ¥ Mata Seca	Sagarana ¥ M ata Seca	State B b bgcalReserve
S agarana ¥ M o nho	Sagarana ¥ M o nho	State B b bgbalReserve
Sagarana ¥ Logradouro	Sagarana ¥ Logradouro	State B b bgbalReserve
Erm da Dom Bosco	Erm ida Dom Bosco	State Park
CopaÃ-bas	CopaÃ-bas	State Park
Recanto das Em as	Recanto das Em as	State Park
Garã§ a Branca	Garà § a Branca	S tate P ark
P equize iro	Pequize ro	State Park
à guas C bras	à guas C bras	State Park
Bosque	Arie do Bosque	Relevant Ecological Interest Airea
Granja do Ipê	Gran ja do Ipà a	State Area of 0 utstanding Ecological Interest
Juce ino Kubitchek	Juce ino Kubitchek	State Area of 0 utstanding Ecobgical Interest
	Trã 's M en has	State Park
Trà °s M en nas		
Cerradão	Arie do Cerradãão	Relevant Ecological Interest Airea
Retrinho	Retrinho	S tate P ark
R io Descoberto	R b Descoberto	State Park
	Lagoa Joaquim de Medeiros	State Park
Bosque dos Euca A-pitos		State Park
Sobradinho	Sobradinho	State Park
C andango 🖁 ¢nd ia	Candango 🖟 ¢nd ia	State Park
Cachoe ira do P piripau	Cachoe ira do P piripau	S tate P ark
Ponte A Ita do Gama	Ponte A Ita do Gama	S tate Park
Pedra da Boca	Pedra da Boca	S tate Park
Jacarapà ©	JacarapÃ⊚	S tate P ark
Are a Vermeha	A re ia Verm e ha	State Marine Park
A ratu	A ratu	S tate P ark
0 nà § as	0 nà § as	State Environmental Protection Area
Pau Brasil	Pau Brasil	0 ther Area
Lagam ar do CauÃ-pe	Lagam ar do CauÃ-pe	State Environmental Protection Area
S erra da A ratanha	Serra da Aratanha	State Environmental Protection Area
	Serras do Geric nã 3-M endanha	State Environmental Protection Area
Pau Brasil	à rea de Proteà § ão Ambientaldo Pau Brasil	State Environmental Protection Area
Frades	à rea de Proteà § à £o Ambienta I da Bacia do Rio dos Frades	State Environmental Protection Area
da Bacia do Rio Macacu	da Bacia do Rio Macacu	State Environmental Protection Area
Serra da Concã ³ rd ia	Parque Estadual da Serra da Concã ³rd ia	State Park
Iha Grande	Iha G rande	State Park
Trà as Picos	Trà °s P cos	State Park
Joathga	Joatinga	State EcobgicalReserve
Guaxindba	Estaà § ão Eco à ³gica Estadual de Guax ind ba	Eco bgical Station
	Cabeceira do Ribidas Balsas	State Environmental Protection Area
M aracanà £	M aracanà €	State Environmental Protection Area
	Bakada Maranhense SubÃirea do Bako PindarÃ⊚	State Environmental Protection Area
	Baixada Maranhense Subãirea do Estuãirio	State Environmental Protection Area
Fà z doR b Pregu à § as		State Environmental Protection Area
Upaon-Açu/Miritba/	Upaon-Aà § u / M irit.ba / A Ito Preguà § a	State Environmental Protection Area
Itapiracó	Itapiracà 3	State Environmental Protection Area
Am anã	Reserva de Desenvo l/m ento Sustentã j/e l Am anã£	State Sustainable Development Reserve
Catua Ipixuna	Catua Ipixuna	State Extractive Reserve
Piagaçu Purus	Piagaà § u Purus	State Sustainable Development Reserve
R io Am apã i	R io Am apã i	State Sustanable Development Reserve
Uacari	Uacari	State Sustainable Development Reserve
Cujubin	Reserva de Desenvo vimento Sustentã ive ICu jubin	State Sustainable Development Reserve
U atum ã	U atum ã	State Sustainable Development Reserve
MauÃ⊚s	F bresta Estadua IM aà °es	State Forest
Canumã	Reserva de Desenvo l/m ento Sustentã jve lCanum ã£	State Sustainable Development Reserve
R io Urubu	F bresta Estadua IR b U rubu	State Forest
Mãodo R o Negro-Aturã	i bicom Ediadua III b OTubu	o www r orest
i/Apuauzinho	Mãodò Rò Negro-Aturãi/Apuauzinho	State Environmental Protection Area
	Mão dò Rò Negro-Tarum㣠Aã§ u/Tarum㣠Mirim	State Environmental Protection Area
R b Negro-Setor Sul	R b Negro-Setor Sul	S tate P ark
MDR b Negro-	HD D : No man D : to mi/O : E · To	Otata Farahama anta IDan ta ata
Paduari/Solmões	MD R io Negro-Paduari/So im ões	State Environmental Protection Area
S um aum a	Parque Estadua I Sum aà ºm a	S tate Park
R b Negro-Setor Norte	R is Negro-Setor Norte	State Park
Arpuanã	Arpuanã	State Forest
Guarba	Guarba	State Extractive Reserve
Guarba	Guarba	S tate P ark
Man corã ©	M an icorà ⊙	State Forest
Barariti	Barariti	State Sustainable Development Reserve
ApuÃ-	A puà –	State Forest
Sucunduri	Sucunduri	State Park

Table A5 List of Protected Area in Brazil (continued, 15/25)

Cucunduri	Sucunduri	C tota Farat
Sucunduri Arpuanã	ArpuanA£	State Forest State Sustainable Development Reserve
R b Jac paranã i	R b Jac paran à i	State Extractive Reserve
M aracatiara	Maracatara	State Extractive Reserve
M assaranduba	M assaranduba	State Extractive Reserve
Ange lim – jequ it bà i	Ange lin – jequ it bã i loã a	State Extractive Reserve
Ipã ª Sucupira	Sucupira Sucupira	State Extractive Reserve State Extractive Reserve
Cedro	Cedro	State Forest
Mogno	Mogno	State Extractive Reserve
Garrote	Garrote	S tate Extractive Reserve
Aquariquara	Aquariquara	State Extractive Reserve
S eringue iras	Seringueiras Roxinho	State Extractive Reserve
Roxinho Freijà ³	Fre ià ³	State Extractive Reserve State Extractive Reserve
PiquiÃi	Piqu Ãi	S tate Extractive Reserve
Castanhe ra	Castanhe ra	State Extractive Reserve
Itauba	Itauba	S tate Extractive Reserve
G av à £ o	Gavão	State Forest
Periquitos Mutum	Periquitos Mutum	State Forest State Forest
A raras	A raras	State Forest
Tucano	Tucano	State Forest
Jatobà i	Jatobà i	State Extractive Reserve
Curralinho	Curralinho	State Extractive Reserve
R b Pedras Negras	R io Pedras Negras	State Extractive Reserve
Bica do Ibu Lagoa de Jibca	Bica do Ipu Lagoa de Jipca	State Environmental Protection Area State Environmental Protection Area
Pedra da Risca do Meio	Pedra da Risca do Meio	State Environmental Protection Area
Dunas da Lago inha	Dunas da Lago inha	State Environmental Protection Area
PacÃ⊚m	PacÃom	State Ecobgical Station
PacÃom	Pacúm	State Environmental Protection Area
Cearà i	Cearà i	State Environmental Protection Area
Lagoa de Uruað FaÃos as de Beberbe	Lagoa de Uruaú FaÃos as de Beberbe	State Environmental Protection Area State Nature Monument
M onã ³litos de Q u ixadã i	Mionà ³litos de Quixadà į	State Nature Monument
R io Pacoti	R io Pacoti	State Environmental Protection Area
Estuã irio do R io M undaã °	Estuã jrio do R io M undaã °	State Environmental Protection Area
Estuà jrio do R io Curu	Estuà irio do R io Curu	State Environmental Protection Area
Dunas de Paracuru	Dunas de Paracuru	State Environmental Protection Area
IgarapÃ⊙s do Juruena Grão ParÃi	Igarapã©s do Juruena Estaã §ã£o Ecoã gia do Grã£o Parã i	State Park Eco bgicalStation
Faro	F bresta Estadual de Faro	State Forest
Paru	F bresta Estadua I do Paru	S tate Forest
Trombetas	Fbresta Estadualdo Trombetas	State Forest
Maicuru	Reserva B io A 3gia de Maicuru	B b bg balR eserve
Triunfo do Xingu	à rea de Proteà § à £ o Ambiental Triunfo do Xingu	Environmental Protection Area
Iriri Praia do Sapo	F bresta Estadual de Iriri Praia do Sapo	State Forest State Environmental Protection Area
Bom Jardin / Passa Tudo	Bom Jardim / Passa Tudo	State Environmental Protection Area
Nadir Jã °n ior	Nadr JÃ ºn ɒr	Particular Reserve of Natural Heritage
Sum aúm a	Sum aà ºm a	Particu ar Reserve of Natural Heritage
Tbrã§a	Tbrã § a	Particular Reserve of Natural Heritage
Fazenda Pione ra	Fazenda P ione ra Ãrea de Proteção Ambientalde São Gerabo Do Araguaia	Particular Reserve of Natural Heritage Environmental Protection Area
Tha do Com bu	à rea de Proteà § ão Ambentalde Sa£o Gerado Do Araguaa à rea de Proteà § ão Ambientalda Iha do Combu	Environmental Protection Area
M ananc ia is		
A bastec in ento de à gua	Mananciais Abastecin ento de à gua de Be à ⊙m	State Environmental Protection Area
BeÃ⊙m	BeÃ⊙m	State Park
Jabotitua-Jatium Tucuruã-	Jabotitua-Jatium	State Environmental Protection Area
TucuruA – Pucuruà ––A rarão	Tucuruà − Reserva de Desenvo lvimento Sustentà i/ve IP ucuruà − − A rarà £ o	State Environmental Protection Area Sustainable Development Reserve
A cobaã § a	A cobaã § a	State Sustainable Development Reserve
Monte Alegre	Parque Estadual de Monte A legre	S tate Park
Paytuna	Ãrea de Proteção Ambienta I Paytuna	Environmental Protection Area
A varà ©	Avarà o	State Forest
Mé dip Rip Negro II	Mî dio Rio Negro II	Indigenous Area
Alto Rip Negro Mãodip Rip Negro I	A tto R is Negro Mãodis R is Negro I	Indigenous A rea Indigenous A rea
Trom betas/M apuera	Trom betas/M apuera	Indigenous Area
Zo'e	Zo'e	Indigenous A rea
Babb	Babb	Indigenous A rea
CuÃo CuÃo/ M arabitanas	Cuà © Cuà © / M arabitanas	Indigenous A rea
São Marcos – RR	São Marcos - RR	Indigenous Area
Anaro Moskow	Anaro M oskow	Indigenous A rea Indigenous A rea
III USNUW	III UONUW	Indenions vica

Table A5 List of Protected Area in Brazil (continued, 16/25)

	Tuble 115 Elist of 1 Toteleted 1 fied in Bruzii (cont	
Pankararà ©	Pankararà ©	Indigenous A rea
Bre jo do Burgo	Bre jo do Burgo	Indigenous Area
K renak	K renak	Indigenous Area
Guató Kadwã⊚u	Guatà ³ KadiwÃ≎u	Indigenous A rea Indigenous A rea
Kulina do Rio Envira	Kulha do R b Envira	Indigenous Area
Jam inaua/Envira	Jam inaua/Envira	Indigenous Area
A rara do R io B ranco	A rara do R io B ranco	Indigenous A rea
à gua P reta/ Inari	à gua Preta/Ínari	Indigenous Area
Camadeni	Cam aden i	Indigenous A rea
	São Dom ingos do Jacaparie Estação	Indigenous A rea
R bzinho do A Ito Envira	R oznho do A tto Envira	Indigenous Area
R b Apaporis	R io Apaporis	Indigenous Area
Nova EsperanA § a do R o Bom Intento	Nova Esperanà § a do R io Jandiatuba Bom Intento	Indigenous A rea Indigenous A rea
M atintin	Mathth	Indigenous Area
Guanabara	Guanabara	Indigenous Area
Boca do Cano do Corre b		Indigenous Area
Porto Limoeiro	Porto Limoe iro	Indigenous A rea
Porto Redenã§ã£o	Porto Redenã § ã£o	Indigenous A rea
São Sebastão	Sã£o Sebastã£o	Indigenous A rea
P rosperidade	Prosperidade	Indigenous A rea
Santa Cruz de Nova A lan	Courts Court de Nove A Fra 7 C	T. C
ça	Santa Cruz de Nova A lianà § a	Indigenous A rea
Barro Alto	Barro Alto	Indigenous A rea
MaraitÃi São Gabrie l∕São	M ara ità į	Indigenous A rea
Salvador	São Gabrie VSão Sa Wador	Indigenous A rea
São Francisco do	O NO G GOLD O G NOGO O G NOGO O G	zid Bollodo A I da
Can in ari	São Francisco do Canimari	Indigenous A rea
Sapotal	Sapotal	Indigenous A rea
Sururuà i	Sururuà i	Indigenous A rea
N au à į	Nauà j	Indigenous Area
A rara do R io Am on ia	A rara do R io Am on ia	Indigenous A rea
Mawetek	M aw e tek	Indigenous A rea
Kampa do Igarapé	W 1.7 % D:	
Prim avera	Kam pa do Igarapé Prim avera	Indigenous A rea
Kaxinaw Aido Baixo Rio	Kavinawi ida Raiya Din Jawa Ga	Indirangua A rag
Jordão KaxinawÃjSeringal	KaxhawÃjdo Bako Rib Jordão	Indigenous A rea
Independã ancia	Kaxhawã iSerngal Independã ancia	Dom in al Indigenous A rea
Kaxhawā ¡Serngal	Mannan To of figure laportum filo ti	Join Harriagonous Area
Curralinho	Kaxhawã jSerngalCurralnho	Indigenous A rea
Inau ni/Teu ni	Inau ni/Teu ni	Indigenous A rea
Garaperi/Lago da Vitoria	Garaperi/Lago da Vitoria	Indigenous A rea
Jam nawa do R io Caetà ©	Jam 'nawa do R ḃ Caeté	Indigenous A rea
Jam naw Aida CobcaA §		·
ão São Pau lino	Jam nawãida Cobcaã§ã£oSã£oPaulho	Indigenous Area
Vaþaraiso	Va þara iso	Indigenous A rea Indigenous A rea
Jam am adido Lourdes Cajapucãi	Jam am adido Lourdes Caiapucãi	Indigenous Area
Cu i – Cu i	Cu iu-Cu iu	Indigenous Area
R b Téa	R b TÃ o a	Indigenous Area
M apari	M apari	Indigenous A rea
Parana do Paricã i	Parana do Paricã i	Indigenous Area
Bako R b Negro	Bako R b Negro	Indigenous A rea
Espã-rito Santo	Espà – rito Santo	Indigenous A rea
A capuride C in a		Indigenous A rea
R bz inho	R bzinho	Indigenous A rea
Kum aru do Lago Uañi	Kumaru do Lago Uañaj	Indigenous A rea
Porto Praia TupÃ&-Supé	Porto Praia Tupã-Supà ∘	Indigenous Area Indigenous Area
Marajai	Tupas-Supa⊎ Marajai	Indigenous Area
Cajuhiri A travessado	m arajai CajuhiriA travessado	Indigenous Area
R b Cu eras		Indigenous Area
IV D ORDIGO	R io Cu ieras	
Forta eza do Patauà i	R o Culeras Forta eza do Patauã j	Indigenous Area
Forta eza do Patauà i São Francisco	Fortabza do Patauà j São Francisco	Indigenous A rea
Forta eza do Patauà i São Francisco Forta eza do Castanho	Forta Eza do Patauà i São Francisco Forta Eza do Castanho	Indigenous Area Indigenous Area
Forta bza do Patauà i São Francisco Forta bza do Castanho Lago do Barrigudo	Forta Bza do Patauà i SÃ&o Francisco Forta Bza do Castanho Lago do Barrigudo	Indigenous A rea Indigenous A rea Indigenous A rea
Forta eza do Patauà i São Francisco Forta eza do Castanho Lago do Barrigudo Vista Alegre	Forta eza do Patauà i SÃ&o Francisco Forta eza do Castanho Lago do Barrigudo Vista Alegre	hdigenous Area Indigenous Area Indigenous Area Indigenous Area
Forta eza do Patauă i São Francisco Forta eza do Castanho Lago do Barrigudo V sta A bgre Igarapã o Paio I	Forta Eza do Patauà i SÃ&o Francisco Forta Eza do Castanho Lago do Barrigudo Vista A Egre Igarapà o Paio I	hdigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea
Forta bza do Patauà i São Francisco Forta bza do Castanho Lago do Barrigudo V ista A bgre Igarapà ∘ Pab I R io Urubu	Forta Eza do Patauà i São Francisco Forta Eza do Castanho Lago do Barrigudo Vista A Bere IgarapÃ∘ Paiol R io Urubu	Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea
Forta eza do Patauà i SÃ&o Francisco Forta eza do Castanho Lago do Barrigudo V ista A egre Igarapà o Pab I R b Urubu Lago do Marinheiro	Forta eza do P atauà i SÃ&O Francisco Forta eza do C astanho Lago do Barrigudo Vista A egre IgarapÃo P ab I R b Urubu Lago do Marinhe ro	Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea
Forta eza do Patauà i SÃ&o Francisco Forta eza do Castanho Lago do Barrigudo Vista A egre Igarapà o Pabl R b Urubu Lago do Marinhe ro Patauà i	Forta eza do Patauà i SÃ&o Francisco Forta eza do Castanho Lago do Barrigudo Vista A egre IgarapÃo Paiol R io Urubu Lago do Marinhe ro Patauà i	Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea
Forta eza do Patauă i São Francisco Forta eza do Castanho Lago do Barrigudo V sta A legre Igarapã o Pabl R o Urubu Lago do Marinheiro Patauă i Appica	Forta eza do Patauà i SÃSO Francisco Forta eza do Castanho Lago do Barrigudo Vista A egre Igarapà Pabl R b Urubu Lago do Marnheiro Patauà i Appiba	Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea
Forta eza do Patauà i SÃ&o Francisco Forta eza do Castanho Lago do Barrigudo Vista A egre Igarapà o Pabl R b Urubu Lago do Marinhe ro Patauà i	Forta eza do Patauà i SÃ&o Francisco Forta eza do Castanho Lago do Barrigudo Vista A egre IgarapÃo Paiol R io Urubu Lago do Marinhe iro Patauà i	Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea
Forta eza do Patauă i São Franc sco Forta eza do Castanho Lago do Barrigudo V sta A egre Igarapã o Pabl R b Urubu Lago do Marinhe ro Patauã i Appica Ponc ano	Forta Eza do Patauà i SÃ © Francisco Forta Eza do Castanho Lago do Barrigudo Vista A Bere Igarapà © Paiol Rio Urubu Lago do Marrinheiro Patauà i Appica Ponciano	Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea
Forta eza do Patauà i SÃ&o Francisco Forta eza do Castanho Lago do Barrigudo V ista A begre Igarapà o Pab I R b Urubu Lago do Marinheiro Patauà i Appiba Ponciano PantabÃ&o	Forta eza do Patauà i SÃ&O Francisco Forta eza do Castanho Lago do Barrigudo Vista A egre Igarapà o Pabl R o Urubu Lago do Marinhe iro Patauà i Appisa Ponciano Panta bÃ&O	Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea
Forta eza do Patauà i SÃ&o Francisco Forta eza do Castanho Lago do Barrigudo Vista A egre Igarapà o Paio I R io Urubu Lago do Marinheiro Patauà i Appica Ponciano Pantabão Jauary Paranà i do Arauatà 3 R io Jumas	Forta Eza do Patauà i SÃ&O Francisco Forta Eza do Castanho Lago do Barrigudo Vista A Egre IgarapÃo Pabl R io Urubu Lago do Marinhe ro Patauà i Appica Ponciano Panta BÃ&O Jauary Paranà ido Arauatà i R io Jumas	Indigenous A rea Indigenous A rea
Forta eza do Patauà i SÃ&o Francisco Forta eza do Castanho Lago do Barrigudo Vista A egre Igarapà o Pabl Rib Urubu Lago do Marinheiro Patauà i Appiba Ponciano PantabÃ&o Jauary Paranà i do A rauatà ' Rib Jum as Muratuba	Forta eza do Patauà i SÃ&o Francisco Forta eza do Castanho Lago do Barrigudo Vista A egre Igarapà o Patol R o Urubu Lago do Marinhe iro Patauà i Appica Ponciano Panta eÃ&o Jauary Paranà i do Arauatà i R o Junata M uratuba	Indigenous A rea Indigenous A rea
Forta eza do Patauà i SÃ&o Francisco Forta eza do Castanho Lago do Barrigudo Vista A egre Igarapà o Paio I R io Urubu Lago do Marinheiro Patauà i Appica Ponciano Pantabão Jauary Paranà i do Arauatà 3 R io Jumas	Forta Eza do Patauà i SÃ&O Francisco Forta Eza do Castanho Lago do Barrigudo Vista A Egre IgarapÃo Pabl R io Urubu Lago do Marinhe ro Patauà i Appica Ponciano Panta BÃ&O Jauary Paranà ido Arauatà i R io Jumas	Indigenous A rea Indigenous A rea

Table A5 List of Protected Area in Brazil (continued, 17/25)

Migue / Josefa	Migue l∕ Jose fa	Indigenous A rea
IgarapÃ⊙-Açu	Igarapà © −Aà § u	Indigenous A rea
A rary	Arary	Indigenous A rea
H iM erm ã	HiMermã£	Indigenous A rea
Kulina do R io Uerã ª -		
M atatbem	Kulina do R io U e rã a - M atat bem	Indigenous A rea
Apurn£ do Igarap©		
Mucuim	Apurinã do IgarapÃ⊙ Mucuim	Indigenous A rea
MamorÃi	Mamorãi	Indigenous A rea
Mamora Sã£koã£/Santa Vitã³ria		Indigenous A rea
Iqu irem a	Iquirem a	Indigenous A rea
	M onte/P r in avera/G o iaba	Indigenous A rea
R io Pardo	R io Pardo	Indigenous A rea
Tenharim Marmebs		
G eba B)	Tenharin Marmebs (GebaB)	Indigenous A rea
P natuba	P inatuba	Indigenous A rea
Setemã	Setem ã	Indigenous A rea
A riram ba	A riram ba	Indigenous A rea
Lago Jauari	Lago Jauari	Indigenous A rea
Lago Capanã	Lago Capanã	Indigenous A rea
	Torã i	
Torà i		Indigenous A rea
Diahui	D iahu i	Indigenous A rea
Jam nawa do Guajarà i	Jam nawa do Guajarà i	Indigenous A rea
M 'barakay	M 'barakay	Indigenous A rea
Arpuanã	Arpuanã	Indigenous A rea
KwazÃidoRbSão		
Pedro	KwazÃidoR b SÃ £oPedro	Indigenous A rea
R b O m erð	R b Omerà a	Indigenous A rea
Lagoa dos Brincos	Lagoa dos Brincos	Indigenous A rea
U rapuru	U rapuru	
		Indigenous A rea
Pauka lira jausu		Indigenous A rea
Portaldo Encantado	Porta Ido Encantado	Indigenous A rea
Panarà i	Panarà i	Indigenous A rea
S arauà i	S arauà i	Indigenous A rea
C obra G rande	Cobra Grande	Indigenous A rea
São João	São João	Indigenous A rea
Nova V ista	Nova V ista	Indigenous A rea
R b M arà ³	R p Marã 3	Indigenous A rea
Bako TapaÑas II	Bako Tapa à 's II	Indigenous A rea
Km 43	Km 43	Indigenous A rea
São Luiz do Tapaà ³s	São Luiz do Tapaà °s	Indigenous A rea
Pimental	P in ental	Indigenous A rea
M irkipi	M rkpi	Indigenous A rea
Aningakinho	An nga binho	Indigenous A rea
Aminã	Am nã	Indigenous A rea
	Boraride Alter do Chã£o	Indigenous A rea
Baixo Tapajós	Baiko Tapa à 3s	Indigenous A rea
B ragan A § a-M ar ituba	Braganà § a-M arituba	Indigenous A rea
M arituba	Marituba	Indigenous Area
Munduruku-Taquara	Munduruku-Taquara	Indigenous A rea
Juruna do Km 17	Juruna do Km 17	Indigenous A rea
Maia		T 12
I- ~ .	Maia	Indigenous A rea
Paca <u>,</u> Ãi	Maia Paca∦ii	Indigenous A rea
Barre irinha	Maia Pacañi Barre rinha	Indigenous A rea Indigenous A rea
	Maia Paca∦ii	Indigenous A rea
Barre irinha	Maia Pacañi Barre rinha	Indigenous A rea Indigenous A rea
Barre rinha Nova Jacundã i	Maia Pacañ i Barre rinha Nova Jacundñ i	Indigenous A rea Indigenous A rea Dom in al Indigenous A rea
Barre irinha Nova Jacundã i Kuruã iya X paya	Maia PacaĂi Barre rinha Nova JacundĂi KuruĂ ya X jaya	hdigenous A rea Indigenous A rea Dom n ia I hdigenous A rea Indigenous A rea Indigenous A rea
Barre i inha Nova Jacundã i Kuruã iya	Maia Pacaă i Barre rinha Nova Jacundă i Kuruă iya	hdigenous A rea Indigenous A rea Dom n ia I hdigenous A rea Indigenous A rea
Barre rinha Nova Jacundã i Kuruã iya X paya Bad pinkore	Maia Pacaăi Barreinha Nova Jacundăi Kuruă ya X paya Bad pnkore	hdigenous A rea Indigenous A rea Dom hal Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea
Barre rinha Nova Jacundā i Kuruā iya X paya Badpinkore Las Uasas K ara ā i S antana do	Maia PacaÃi Barre rinha Nova JacundÃi KuruÃiya X paya Badpnkore Las Casas	hdigenous A rea Indigenous A rea Dom h al hdigenous A rea Indigenous A rea
Barre rinha Nova Jacundā i Kuruā iva X paya Bad pinkore Las Usasa Kara ji S antana do A ragua ia	Maia Paca ji Barre rinha Nova Jacundi i Kuru j	hdigenous A rea Indigenous A rea Dom hal hdigenous A rea Indigenous A rea
Barre i hha Nova Jacundă i Kuruă iya X ipaya Badjonkore Las Casas Kara i Santana do A ragua ia M aranduba	M aia P aca Ă i P aca Ă i B arre i riha Nova JacundĂ i KuruĂ iya X paya B ad pinkore Las C asas K ara Ă i S antana do A ragua ia M aranduba	hdigenous A rea Indigenous A rea Dom in al Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea
Barre rinha Nova Jacundã i Kuruã iya X paya Bad pinkore Las Casas Kara à i Santana do A ragua ia M aranduba Trem em bã o de A im ofa la	Maia PacaĂi Barre inha Nova JacundĂi KuruĂiya X jaya Badjinkore Las Casas KaraĂi Santana do Araguaia M aranduba Trem em bĂ⊙ de A lin ofa la	hdgenous A rea Indgenous A rea Dom n ia I hdgenous A rea Indgenous A rea
Barre rinha Nova Jacundă i Kuruă ya X paya Bad pinkore Las Casas Kara ă i Santana do Aragua ia Maranduba Trem em bă o de A in ofala Că rrego Joă£o Pere ra	M aia P aca Ă i P aca Ă i B arre i riha Nova JacundĂ i KuruĂ iya X paya B ad pinkore Las C asas K ara Ă i S antana do A ragua ia M aranduba	hdigenous A rea Indigenous A rea Dom in al Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea
Barre rinha Nova Jacundă i Kuruă iya X paya Bad pinkore Las Casas Kara i Santana do Aragua ia Maranduba Trem em bão de A mofa la Că rrego Joãão Pere ra Trem em bão de	Maia PacaÃi Barre rinha Nova JacundÃi KuruÃiya X paya Badpnkore Las Casas KaraÃiSantana do Araguaia Maranduba Trem em bÃo de A m ofala CÃ rrego JoÃão Pere ra	hdigenous A rea Indigenous A rea Dom hal hdigenous A rea Indigenous A rea
Barre rinha Nova Jacundă i Kuruă iya X paya Bad pinkore Las Vasas Kara i Santana do Aragua M aranduba Trem em bă o de A in o fa la Că 'rreg o Joã c o Pere ira Trem em bă o de Q ue in adas	Maia PacaÃi Barre iriha Nova JacundÃi KuruÃiya X paya Bad pinkore Las Casas KaraÃiSantana do Araguaia Maranduba Trem em bé de A mofala CÃ'rrego João Pere ira Trem em bé de Q ue im adas	hdigenous A rea Indigenous A rea Dom hal hdigenous A rea Indigenous A rea
Barre rinha Nova Jacundă i Kuruă iya X paya Bad pinkore Las Casas Kara i Santana do A ragua ia M aranduba Trem em bă o de A in o fa la Că rrego Joă c Pere ra Trem em bă o de Q ue in adas Tapeba	Maia PacaĂi Barre inha Nova JacundĂi KuruĂiya X jaya Bad pinkore Las Casas KaraĂi Santana do A raguaia M aranduba Trem em bà ○ de A in ofa la Cà 'rrego João Pere ira Trem em bà ○ de Q ue in adas Tapeba	hdigenous A rea Indigenous A rea Dom n'al Indigenous A rea
Barre rinha Nova Jacundă i Kuruă ya X paya Bad pinkore Las Casas Kara ă i Santana do Aragua ia Maranduba Trem em bă o de A in ofa la Că rrego Joă£o Pere ra Trem em bă o de Que in adas P itaguary	Maia PacaĂi Barre rinha Nova JacundĂi KuruĂ iya X paya Badonkore Las Casas KaraĂi Santana do Araguaia Maranduba Trem em bÃo de A in ofa la Cà "rrego João Pere ira Trem em bÃo de Que in adas Tapeba P itaguary	hdigenous A rea Indigenous A rea Dom h ial hdigenous A rea Indigenous A rea
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Barre rinha Nova Jacundă i Kuruă ya X paya Bad pinkore Las Casas Kara ă i Santana do Aragua ia Maranduba Trem em bă o de A in ofa la Că rrego Joă£o Pere ra Trem em bă o de Que in adas P itaguary	Maia PacaĂi Barre rinha Nova JacundĂi KuruĂ iya X paya Badonkore Las Casas KaraĂi Santana do Araguaia Maranduba Trem em bÃo de A in ofa la Cà "rrego João Pere ira Trem em bÃo de Que in adas Tapeba P itaguary	hdigenous A rea Indigenous A rea Dom h ial hdigenous A rea Indigenous A rea
Barreirinha Nova Jacundā i Kuruā iva X ipaya Bad pinkore Las Casas Karaā iš antana do Aragua ia Maranduba Trem em bā o de A im ofa la Cā 'rrego Joā co Pere ra Trem em bā o de Que im adas Tapeba Pitaguary V is Real	Maia PacaĂi Barre rinha Nova JacundĂi KuruĂ iya X paya Badonkore Las Casas KaraĂi Santana do Araguaia M aranduba Trem em bĂ⊙ de A in ofa la Cà 'rrego João Pere ira Trem em bÃ⊙ de Q ue in adas Tapeba P taguary V ia Rea I	hdgenous A rea Indgenous A rea Dom n ia I hdgenous A rea Indgenous A rea
Barre rinha Nova Jacundă i Kuruă ya X paya Bad pinkore Las Casas Kara ă i Santana do A ragua ia M aranduba Trem em bă o de A lm ofa la Că 'rrego Joă£o Pere ra Trem em bă o de Q ue im adas Tapeba P taguary V ia Real Atkum Trukă i	Maia PacaĂi Barre rinha Nova JacundĂi KuruĂiya X jaya Bad pinkore Las Casas KaraĂi Santana do A raguaia M aranduba Trem em bÃ⊙ de A in ofa la Cà 'rrego João Pere ira Trem em bÃ⊙ de Q ue in adas Tapeba P itaguary V ia Real Atkum TrukĂi	hdgenous A rea Indgenous A rea Dom n'al Indgenous A rea
Barreirinha Nova Jacundā i Kuruā iva X java Bad pinkore Las Casas Karaā is antana do Aragua ia Maranduba Trem em bā o de A im ofa la Cā rrego Joāš o Pere ra Trem em bā o de Que im adas Tapeba Pitaguary Via Real Atkum Trukā i Trukā i Trukā i	Maia PacaÃi Barre inha Nova JacundÃi KuruÃiya X jaya Bad jonkore Las Casas KaraÃi Santana do Araguaia Maranduba Trem em bÃo de A mofa la Cà 'rrego João Pere ira Trem em bÃo de Que in adas Tapeba P taguary V ila Real Atkum	hdgenous A rea Indgenous A rea Dom n ia I hdgenous A rea Indgenous A rea
Barreirinha Nova Jacundā i Kuruā iva X ipaya Bad pinkore Las Casas Karaā is antana do Aragua ia Maranduba Trem em bā o de A mofa la Cā irego Joāšo Pere ira Trem em bā o de Que im adas Tapeba Pitaguary V is Real Atkum Trukā i Tuyā i Quikaba - Fazenda	Maia PacaÃi PacaÃi Nova JacundÃi KuruÃiya X þaya Badþnkore Las Casas KaraÃiSantana do Araguaia Maranduba Trem em bÃo de A Imofa la Cùrrego João Pere ira Trem em bÃo de Q ue im adas Tapeba Pitaguary V ia Real Atkum TrukÃi TuxÃi	hdigenous A rea Indigenous A rea Dom in al Indigenous A rea
Barreirinha Nova Jacundā i Kuruā iva X ipaya Bad pinkore Las Usasa Karaā is antana do Aragua ia M aranduba Trem em bā o de A mofala Cā rrego Joāšo Pereira Trem em bā o de Q ue in adas Tapeba Pitaguary V ila Real Atkum Trukā i Trukā i U u kaba — Fazenda Pedrosa	Maia PacaÃi Barre inha Nova JacundÃi KuruÃiya X jaya Bad pinkore Las Casas KaraÃi Santana do Araguaia Maranduba Trem em bà © de A mofa la Cà 'rrego Joà & o Pere ira Trem em bà © de Que in adas Tapeba Pitaguary Via Real Atkum TrukÃi TuxÃi Quixaba - Fazenda Pedrosa	hdigenous A rea Indigenous A rea Dom n'al hdigenous A rea Indigenous A rea
Barre rinha Nova Jacundă i Kuruă ya X paya Bad pinkore Las Casas Kara i Santana do A ragua ia M aranduba Trem em bă o de A In ofa la Că rrego Joă£o Pere ra Trem em bă o de Q ue in adas Tapeba P taguary V ia Real Atkum Trukă i Tuxă i Q u kaba - Fazenda P edrosa W aw i	Maia PacaĂi Barre rinha Nova JacundĂi KuruĂiya X jaya Bad pinkore Las Casas KaraĂi Santana do A raguaia M aranduba Trem em bÃ⊙ de A in ofa la Cà 'rrego João Pere ira Trem em bÃ⊙ de Que in adas Tapeba P itaguary V ia Real Atkum TrukĂi TuxĂi Q u ixaba - Fazenda Pedrosa W aw i	hdigenous A rea Indigenous A rea Dom n'al Indigenous A rea
Barreirinha Nova Jacundă i Kuruă ya X paya Bad pinkore Las Casas Karaă i Santana do Aragua ia Maranduba Trem em bă o de A im ofa la Că rrego Joăs o Pere ra Trem em bă o de Que im adas Tapeba Pitaguary V ia Real Atkum Trukă i Tuxă i O u kaba - Fazenda Pedrosa W aw i Ubaw aw e	Maia PacaĂi Barre rinha Nova JacundĂi KuruĂiya X jaya Badjonkore Las Casas KaraĂi Santana do Araguaia M aranduba Trem em bĂ o de A in ofa la Cà 'rrego João Pere ira Trem em bĀ o de Q ue in adas Tapeba P itaguary V ia Real Atkum TrukĂi TuxĂi Q u ixaba - Fazenda Pedrosa W aw i Ubaw aw e	Indigenous A rea Indigenous A rea
Barre rinha Nova Jacundā i Kuruā iva X ipaya Bad pinkore Las Casas Karaā is antana do Aragua ia Maranduba Trem em bā o de A mofa la Cā rrego Joā o de A mofa la Cā rrego Joā o de A mofa la Cā rrego Joā o de A mofa la Cā rrego Joā o de A mofa la Cā rrego Joā o de A mofa la Cā rrego Joā o de A mofa la Trem em bā o de Que im adas Tapeba Pitaguary V is Real Atkum Trukā i Tuyā i Quikaba - Fazenda Pedrosa Wawi Ubaw awe Parque do X ngu	Maia PacaÃi Barreiriha Nova JacundÃi KuruÃiya X paya Bad pinkore Las Casas KaraÃiSantana do Araguaia Maranduba Trem em bÃ⊙ de A mofa la CÃ'rrego João Pere ra Trem em bÃ⊙ de Que im adas Tapeba Pitaguary V ila Real Atkum TrukÃi TuxÃi Quixaba - Fazenda Pedrosa W awi Ubaw awe Parque do Xingu	hdigenous A rea Indigenous A rea Dom n'al Indigenous A rea
Barre rinha Nova Jacundă i Kuruă ya X paya Bad pinkore Las Casas Kara A i Santana do A ragua ia M aranduba Trem em bă o de A lm ofa la Că 'rrego Joă£o Pere ra Trem em bă o de Q ue im adas Tapeba P taguary V ia Real Atkum Trukă i Tuxă i Q u kaba - Fazenda Pedrosa W aw i Ubaw aw e P arque do X ingu B ate Ř£o	Maia PacaĂi Barre rinha Nova JacundĂi KuruĂiya X jaya Badjonkore Las Casas KaraĂi Santana do Araguaia M aranduba Trem em bĂ o de A in ofa la Cà 'rrego João Pere ira Trem em bĀ o de Q ue in adas Tapeba P itaguary V ia Real Atkum TrukĂi TuxĂi Q u ixaba - Fazenda Pedrosa W aw i Ubaw aw e	Indigenous A rea Indigenous A rea
Barre rinha Nova Jacundă i Kuruă ya X paya Bad pinkore Las Casas Kara A i Santana do A ragua ia M aranduba Trem em bă o de A lm ofa la Că 'rrego Joă£o Pere ra Trem em bă o de Q ue im adas Tapeba P taguary V ia Real Atkum Trukă i Tuxă i Q u kaba - Fazenda Pedrosa W aw i Ubaw aw e P arque do X ingu B ate Ř£o	Maia PacaÃi Barreiriha Nova JacundÃi KuruÃiya X paya Bad pinkore Las Casas KaraÃiSantana do Araguaia Maranduba Trem em bÃ⊙ de A mofa la CÃ'rrego João Pere ra Trem em bÃ⊙ de Que im adas Tapeba Pitaguary V ila Real Atkum TrukÃi TuxÃi Quixaba - Fazenda Pedrosa W awi Ubaw awe Parque do Xingu	hdigenous A rea Indigenous A rea
Barre rinha Nova Jacundă i Kuruă ya X paya Bad pinkore Las Casas Kara i Santana do Aragua ia Maranduba Trem em bă o de A in ofa la Că rrego Joă co Pere ra Trem em bă o de Que in adas Tapeba P taguary V ia Real Atkum Trukă i Tuxă i Qu xaba - Fazenda P edrosa W awi Ubawawe P arque do X ingu Bate Ñ £ o R b A rrais/BR 080	Maia PacaĂi Barre rinha Nova JacundĂi KuruĂiya X jaya Bad pinkore Las Casas KaraĂi Santana do A raguaia M aranduba Trem em bÃ⊙ de A in ofa la Cà 'rrego João Pere ira Trem em bÃ⊙ de Que in adas Tapeba P itaguary V ia Real Atkum TrukĂi TuxĂi Q u ixaba - Fazenda Pedrosa W aw i Ubaw aw e Parque do X ingu Bate Ř£o R io Arra is/SR 080	hdigenous A rea Indigenous A rea Dom n'al Indigenous A rea
Barreirinha Nova Jacundā i Kuruā iva X paya Bad pinkore Las Casas Karaā iš antana do Aragua ia Maranduba Trem em bā o de A im ofa la Cā rrego Joāš o Pere ra Trem em bā o de Que im adas Tapeba Pitaguary Via Real Atkum Trukā i Tuxā i Quixaba - Fazenda Pedrosa Wawi Ubaw awe Parque do Xingu Bate fišo Ponte de Pedra	Maia Pacañi Barreinha Nova Jacundñi Kuruñiya X paya Badpinkore Las Casas KarañiSantana do Araguaia Maranduba Trem em bño de A mofala Cñ'rrego Joñso Pereira Trem em bño de Que in adas Tapeba Pitaguary V ila Real Atkum Trukñi Trukñi Tuxñi Quixaba - Fazenda Pedrosa W awi Ubaw aw e Parque do Xingu Bateñso Rosa - Rosa - Rosa Rosa - Rosa - Rosa Rosa - R	Indigenous A rea Indigenous A rea Dom his Indigenous A rea
Barre rinha Nova Jacundă i Kuruă ya X paya Bad pinkore Las Casas Kara i Santana do Aragua ia Maranduba Trem em bă o de A in ofa la Că rrego Joă co Pere ra Trem em bă o de Que in adas Tapeba P taguary V ia Real Atkum Trukă i Tuxă i Qu xaba - Fazenda P edrosa W awi Ubawawe P arque do X ingu Bate Ñ £ o R b A rrais/BR 080	Maia PacaĂi Barre rinha Nova JacundĂi KuruĂiya X jaya Bad pinkore Las Casas KaraĂi Santana do A raguaia M aranduba Trem em bÃ⊙ de A in ofa la Cà 'rrego João Pere ira Trem em bÃ⊙ de Que in adas Tapeba P itaguary V ia Real Atkum TrukĂi TuxĂi Q u ixaba - Fazenda Pedrosa W aw i Ubaw aw e Parque do X ingu Bate Ř£o R io Arra is/SR 080	Indigenous A rea Indigenous A rea

Table A5 List of Protected Area in Brazil (continued, 18/25)

Isoà °'pÃ	Isoà °'pÃ	Indigenous A rea
Hu'uhi	Hu'uhi	Indigenous A rea
Parque do Araguaia	Parque do Araguaia	Indigenous A rea
M ara w atsede	M ara watsede	Indigenous A rea
U rubu B ranco	Urubu Branco	Indigenous A rea
K apotnh no re	K apo thh no re	Indigenous A rea
Cacique Fontoura	Cac que Fontoura	Indigenous A rea
Inawebohona	Inawebohona	Indigenous A rea
U taria W yhyna/ Irà 'du IrÃ	E TOTAL OR STATE OF THE STATE O	2.00000 11100
na	U taria W yhyna/ Irà 'du Irà na	Indigenous A rea
Chã£o Preto	Chã so Preto	Indigenous A rea
Eterà £ irebere	Eterã rebere	Indigenous A rea
K rahà ³-K ane la	K rahà ³-K ane la	Indigenous Reserve
Baia do Guatà 3	Baia do Guatà 3	Indigenous A rea
Naruwoto	Naruwoto	Indigenous A rea
Norotsurã	Norotsurã	Indigenous A rea
A và ¡-Canoe iro	A và i-C anoe iro	Indigenous A rea
Barra	Barra	A cquired Indigenous Airea
Ibotiram a	Ibotram a	Dom nal Indigenous Area
Karaja ide Aruan⣠III	KaraÃide Aruanã III	Indigenous A rea
Kara A ide A ruan A £ II	Kara à j de A ruan ã II	Indigenous A rea
Kara A ide A ruan A £ I	Kara, Tide Ardan A. II Kara, Tide Ardan A. E. I	Indigenous Airea
Carretão II	Carretãão II	Indigenous Airea
Carretãão II	Carretato II	
	Massacara	Indigenous A rea Indigenous A rea
M assacara		
K rri	Kiri	Indigenous A rea
Vargem Alegre	Vargem A legre	Indigenous Reserve
Fazenda Bahiana	Fazenda Bahiana	A cquired Indigenous A rea
Caramuru/Paraguassu	Caramuru/Paraguassu	Indigenous Reserve
Xacrabãi Vakribãi Panaharin	Xacriabã i	Indigenous A rea
Xakrabã i Ranchara	Xakrabā i Rancharia	Indigenous A rea
	Tupham bã ide 0 livenã § a	Indigenous A rea
M ata M edonha	M ata M edonha	Indigenous A rea
A ble ia V e ha	A ble ia V e ha	Indigenous A rea
Im b ir ba	In birba	Indigenous A rea
Fazenda Guaran i	Fazenda Guaran i	Indigenous A rea
M axaca li	M axaca li	Indigenous A rea
Corum bauz inho	Corum bauz nho	Indigenous A rea
Pirajuà −	P ira juà –	Indigenous A rea
Nonoai	Nonoai	Indigenous A rea
Serrinha	Serrinha	Indigenous A rea
Arrob-Korãi	Arro b-Korã i	Indigenous A rea
Jatayvari	Jatayvari	Indigenous A rea
Pilad RebuÃi	P ilad Rebuà i	Indigenous A rea
Cachoe rinha	Cachoe rinha	Indigenous A rea
	Nossa Senhora de FÃ itim a	A cquired Indigenous A rea
Taunay/Ipegue	Taunay/lpegue	Indigenous A rea
Limã£oVerde	Limã£o Verde	Indigenous A rea
Lalima	Lalina	Indigenous A rea
A de inha	A de inha	Indigenous A rea
N baque	N baque	Indigenous A rea
Ãgua L in pa	à gua L in pa	Indigenous A rea
Buriti	Buriti	Indigenous A rea
Buritzinho	Buritzinho	Indigenous A rea
à ánde Ru Marangatu	à ánde Ru Marangatu	Indigenous A rea
P irakua	P irakua	Indigenous A rea
Kokuey	Kokuey	Indigenous A rea
Gua-y-viri	Gua-y-viri	Indigenous A rea
Guasuti	Guasuti	Indigenous A rea
Taquaperi	Taquaperi	Indigenous Reserve
Sete Cerros	Sete Cerros	Indigenous A rea
Potrero Guaçu	Potrero Guaç u	Indigenous A rea
P an am b iz inho	Panam b ż nho	Indigenous A rea
Guyrarokà j	Guyrarokã i	Indigenous A rea
Sucuriy	Sucuriy	Indigenous A rea
Dourados	Dourados	Indigenous Reserve
U rucuty	Urucuty	Indigenous A rea
Panambi	Panam bi	A cquired Indigenous A rea
Taquara	Taquara	Indigenous A rea
Rancho Jacarão	Rancho Jacarà ©	Indigenous A rea
Guamibã⊙	Guain bà ©	Indigenous A rea
Am am bai	Am am bai	Indigenous A rea
Jaguari	Jaguari	Indigenous A rea
A de a L in à £ o V erde	A de a L m à £ o V e rde	Indigenous Reserve
Jaguapirã o	Jaguap rão	Indigenous A rea
Jarara	Jarara	Indigenous A rea
o u. ui u	- W. W. W.	

Table A5 List of Protected Area in Brazil (continued, 19/25)

S assorà 3	Sassorà 3	Indigenous Reserve
Takuaraty/Yvykuarusu	Takuaraty/Yvykuarusu	Indigenous A rea
Mato Preto	M ato Preto	Indigenous A rea
Sombrerito	Som brerito	Indigenous A rea
Cerrito	Cerrito	Indigenous A rea
Yvy-katu	Yvy-katu	Indigenous A rea
XetÃi	X età i	Indigenous A rea
Yvyporã Laran jnha	Yvyporã Laran jnha	Indigenous A rea
0 fayà © − X avante	0 fayà ○ – X avante	Indigenous A rea
Avã ¡Guaranido O coã-	A và j-Guaranido 0 coÃ-	Indigenous A rea
Tekoha Anetete	Tekoha Anetete	Indigenous Reserve
Icatu	Icatu	Indigenous A rea
São Jeron in o	São Jeronimo	Indigenous A rea
T bagy/M ococa	T bagy/M ococa	Indigenous A rea
Barão de Antonina	Barão de Antonina	Indigenous Area
Apucarana		Indigenous Reserve
_	Apucarana	ŭ
V anu ire	Vanu re	Indigenous A rea
A rar bà i	Ararbà i	Indigenous A rea
Guaranido Araça'i	Guaranido Araça'i	Indigenous A rea
R b dos Āndbs	R io dos Ãnd ios	Indigenous A rea
Kangang de Irà ji	Kangang de Irà ji	Indigenous A rea
Nonoaj/R io da V Ã jrzea	Nonoai∕R io da VÃ jrzea	Indigenous A rea
Guarita	Guarita	Indigenous A rea
Laran jinha	Laran jinha	Indigenous A rea
P nhak nho	P inhak inho	A cquired Indigenous A rea
Inhacorã i	Inhacorà i	Indigenous A rea
Guaran ido Aguapeu	Guaranido Aguapeu	Indigenous Area
R ip das Cobras	R io das Cobras	Indigenous Area
Boa V ista – PR	Boa V ista – PR	Indigenous A rea
Faxinal	Faxnal	Indigenous Area
Ivai	lvai	Indigenous Area
Que in adas	Q ue in adas	Indigenous A rea
M arrecas	M arrecas	Dom n'al Indigenous A rea
M angue rhha	M angue irinha	Indigenous Reserve
R b Are a	R io Are ia	Indigenous A rea
Iha da Cotinga	Iha da Cotinga	Indigenous A rea
Morro Alto	M orro A tto	Indigenous A rea
P indoty	P indo ty	Indigenous A rea
Cao inua Dabb	Coo inua Daha	To discuss and A was
Cacique Doble	Cacique Doble	Indigenous A rea
	Xapecã 3	
Xapecó Pamas		Indgenous Area Indgenous Area Indgenous Area
Xapecó Palnas	X apecà ³ Palnas	Indigenous Airea Indigenous Airea
Xapecã ³ Palmas Toblo Imbu	Xapecó Palmas Toldo Imbu	Indigenous Area Indigenous Area Indigenous Area
Xapecã³ Pahas Todo Imbu A de a Kondã i	Xapecà ³ Paln as To do Inbu A de a Kondà i	Indgenous A rea Indgenous A rea Indgenous A rea Indgenous R eserve
X apec à ³ P a m as To blo Im bu A ble ia Kond à i To blo Ch im bangue	Xapecà 3 Paln as To do In bu A tie a Kondà i To do Ch in bangue	Indgenous A rea Indgenous A rea Indgenous A rea Indgenous R eserve Indgenous A rea
Xapecã ³ Palmas To Un Imbu A Ule ia Kondã i To Ulo Chim bangue To Ulo Chim bangue II	XapecÃ' Paln as To tło Im bu A tłe ia Kondà i To tło Ch im bangue To tło Ch im bangue II	Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea
X apecà 3 Pa m as To do In bu A de a K ondà i To do Ch m bangue To do Ch m bangue To do P nha I	Xapecà 3 Pa has To tlo Im bu A tle a Kondà i To tlo C hin bangue To tlo C hin bangue To tlo C hin bangue Il To tlo P inhal	Indgenous A rea Indgenous A rea Indgenous A rea Indgenous R eserve Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea
X apecà ' P a ln as To do ln bu A ble a K ondà i To do Ch in bangue To do Ch in bangue II To do P hhal Guaran i V o touro	Xapecà 3 Paln as To do Imbu A de a Kondà i To do Chin bangue To do Chin bangue II To do Phhal Guaran i Votouro	Indgenous A rea Indgenous A rea Indgenous A rea Indgenous R eserve Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea
Xapecà ' Paln as To do In bu A de a Kondà i To do Ch in bangue To do Ch in bangue II To do Pinhal Guaran iV otouro Votouro	Xapecà 3 Paln as To do In bu A tle a Kondà i To do Ch in bangue To do Ch in bangue II To do Pinhal Guaran i Votouro Votouro	Indgenous A rea Indgenous A rea Indgenous A rea Indgenous R eserve Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea
Xapecà ' Palm as To tho Im bu A the a Kondà i To tho Ch im bangue To tho Ch im bangue II To tho P inhal Guaran i V otouro V otouro V otouro/K ando a	Xapecó Paln as To blo Im bu A ble in Kondà i To blo Chim bangue To blo Chim bangue II To blo Pinhal Guaran i Vo touro Vo touro Vo touro Vo touro/Kando ia	Indgenous A rea Indgenous A rea Indgenous A rea Indgenous R eserve Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea
X apecà ' P a ln as To do ln bu A de a Kondà i To do Ch in bangue To do Ch in bangue II To do P inhal Guaran i Votouro Votouro Votouro/K ando a R b dos Pardos	Xapecó Pahas To blo Im bu A ble a Kondà i To blo Ch im bangue To blo Ch im bangue II To blo P nhal Guarani Vo touro Vo touro Vo touro/K ando ia R is dos Pardos	Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea
X apec Ā ' P a hi as To do hi bu A be a Kondā i To do Ch in bangue To do Ch in bangue II To do P hinal Guaran i V otouro V otouro V otouro/K ando a R b dos P ardos V entarra	Xapecà 3 Paln as To do Imbu A de a Kondà i To do Chin bangue To do Chin bangue II To do Phinal Guarani Votouro Votouro Votouro/Kando ia R b dos Pardos Ventarra	Indgenous A rea Indgenous A rea Indgenous R rea Indgenous R eserve Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea Indgenous A rea
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Xapecà ' Palm as To do Imbu A ble ia Kondà i To do Ch im bangue To tho Ch im bangue To tho Ch im bangue II To do P hhal Guaran i Votouro Votouro Votouro/Kando ia R b dos Pardos Ventarra Lige iro M assim bu Carrete iro M onte Caseros Biram a Prai Tarum à £ M biguaà § u Morro dos Cava bs M anch inerido Seringal Guanabara Cachoe ira dos Inà b is Com bo is Kax kà ' Pau B ras il Ca ie iras Ve ha Ca ie iras Ve ha II Jaraguà i Guaran ida B arragem K rukutu R b B ranco Itanhaà o m R be rà £ o S ilve ra	Xapecà ³ Pa has To do mbu A the a Kondà i To do Ch im bangue To do Ch im bangue II To do P hhal Guaran iVo touro Vo touro Vo touro Vo touro/Kando ia R io dos Pardos Ventarra L ge ro M ass im bu Carrete ro M onte Caseros b rama P rai Tarum ã M b guaà § u M orro dos Cavabs M anch her ido Se ringal Guanabara Cachoe ra dos Inà io bs Com bo is Kaxikà ³ Pau B ras il Cair ras Ve ha II Jaraguà i Guaran ida Barragem K rukutu R io B ranco Itanhaà om	Indgenous Area Indgenous Area Indgenous Reserve Indgenous Reserve Indgenous Area
Xapecà ' Paln as To do Inbu A ble ia Kondà i To do Ch in bangue To do Ch in bangue To do Ch in bangue II To do Phinal Guarani Votouro Votouro Votouro Votouro/Kando ia R b dos Pardos Ventarra Lige iro M assim bu Carrete iro M onte Caseros biram a P irai Tarum à £ M biguaà § u Morro dos Cava bs M anch ine rido Seringal Guanabara Cachoe ra dos hà ic is Com bo is Kaxikà ' Pau Brasil Caè iras Ve ha II Jaraguà i Guarani da Barragem K rukutu R b B Branco Itanhaà em R be irã o Silve ira Boa Vista Sertã o do	Xapecà 3 Pah as To do m bu A de a Kondà i To do Ch in bangue To do Ch in bangue II To do Ch in bangue III To do Phhal Guarani Votouro Votouro Votouro Votouro/Kando ia R b dos Pardos Ventarra L je iro M assim bu Carrete iro M onte Caseros Diram a Pirai Tarum à & M biguaà § u M orro dos Cavabs M anch inerido Seringal Guanabara Cachoe ira dos Inà p bs Com bo bs Kax kà 3 Pau Brasil Caè iras Ve ha II Jaraguà i Guarani da Barragem K rukutu R b B ranco Itanhaà om R be irà £ o S ive ira	Indgenous A rea Indgenous A rea Indgenous R eserve Indgenous R eserve Indgenous A rea
Xapecā ' Palm as To Ho m bu A the ia Kondā i To Ho Ch im bangue To tho Ch im bangue IT o Ho Ch im bangue III To Ho P inhal Guaran i Vo touro Vo touro Vo touro/Kando ia R b dos P ardos Ventarra L ige ro M assim bu Carrete ro M onte Caseros biram a P rai Tarum £ M b iguaā Ş u M orro dos Cavabs M anch heri do Seringal Guanabara Cachoe ra dos Inā is is Com bo is Kaxikā ' Pau B ras il Cae iras Ve ha II Jaraguā i Guaran ida B arragem K rukutu R b B ranco Itanhaā om R be rā£o S ilve ra Boa V sta Sertā£o do P rom ir im	XapecÃ' Palh as To do Imbu A de a Kondã i To do Ch im bangue To do Ch im bangue II To do P nhal Guarani Vo touro Vo touro Vo touro Vo touro/Kando ia R b dos Pardos Ventarra L ge iro M ass sim bu Carrete iro M onte Caseros biram a Pirai Tarumã M b guaà § u M orro dos Cavabs M anch inerido Seringal Guanabara Cachoe ra dos hà is bs Com bo is KaxkÃ' Pau B rasii Ca ie ras Ve ha II Jaraguà i Guarani da Barragem Krukutu R b B ranco ItanhaÃom R be irão S ike ra Boa V ista Sertão do P rom irim	Indgenous Area Indgenous Area Indgenous Reserve Indgenous Reserve Indgenous Area

Table A5 List of Protected Area in Brazil (continued, 20/25)

Guaranide Bracui	Guaranide Bracui	Indigenous A rea
PeruÃ-be	PeruÃ-be	Indigenous A rea
P aà § aguera	Piaà § aguera	Indigenous A rea
Serra do Itatins	Serra do Itatins	Indigenous A rea
Itaà ³ca	Itaà ³ca	Indigenous A rea
Salto Grande do Jacuã -	Salto Grande do JacuÃ-	Indigenous A rea
Borboleta	Borbo eta	Indigenous A rea Indigenous A rea
Irapuà i	Irapuà i Pacheca	- U
Pacheca		Indigenous A rea
C an taga b	Cantagab	Indigenous A rea
	Guaran i de à guas B rancas	Indigenous A rea
Guaran i Barra do Ouro Varzinha	Guaran i Barra do O uro Varzinha	Indigenous A rea Indigenous A rea
Capivari	Capivari	Indigenous A rea
Lagoa Encantada Xukuru	Lagoa Encantada	Indigenous A rea
	Xukuru	Indigenous A rea
Kambiwãi Kapinawãi	Kam bwà j	Indigenous A rea
	Kaphaw à į	Indigenous A rea
P p pa	P ip pa	Indigenous A rea
Fazenda Fun il	Fazenda Fun il	Indigenous A rea
Entre Serras	Entre Serras	Indigenous A rea
K antarurà ©	Kantarurà o	Indigenous A rea
Pankararu	Pankararu	Indigenous A rea
Fazenda Cristo Rei	Fazenda Cristo Rei	Indigenous A rea
Jerpancã ³	Jerpancã 3	Indigenous A rea
Tum ba ba la la i	Tum ba ka Ki	Indigenous A rea
Fuhi-ô	Fuhi-Ã ´	Indigenous Reserve
Fazenda Canto	Fazenda Canto	A cquired Indigenous A rea
M ata da C afurna	M ata da C afuma	Dom in al Indigenous A rea
X ukuru-K ariri	Xukuru–K ariri	Indigenous A rea
Wassu-Cocal	Wassu-Cocal	Indigenous A rea
Cañ § ara/Iha de Sñ£o	0.77 - /11 - 0.70 - D - 1	
Pedro	Caà § ara/ Iha de São Pedro	Indigenous A rea
K arapo tà ³	Karapo tà 3	A cquired Indigenous A rea
Aconã	Aconã	A cquired Indigenous A rea
TinguiBotó	TinguiBotó	Indigenous Reserve
Karr⊢Xocó	Kariri-Xocà ³	Indigenous A rea
A caà °-go iana	Reserva Extrativista Acaà °−go iana	Extractive Reserve
Chapada Lin pa	Chapada Lin pa	Extractive Reserve
N egre iros	F bresta Nac bnalde Negre iros	NationalForest
Itatiaia	Parque Nacional Itatia ia	NationalPark
Terra Grande Pracuuba	Reserva Extrativista Terra Grande Pracuuba	Extractive Reserve
Quibm bo do Frexal	Reserva Extrativista Q u ibm bo do Frexa l	Extractive Reserve
Ciñco	Reserva Extrativista do C ir à ico	Extractive Reserve
Araripe-apodi	F bresta Nac bnaldo Araripe-apodi	NationalForest
A caà °−go iana	Reserva Extrativista A caà °-go iana	Extractive Reserve
Chda Limpa	Reserva Extrativista Chapada Limpa	Extractive Reserve
Açungui	F bresta Nac bnalde AÃ § ungu i	NatbnalForest
Negreiros	F bresta Nac bnalde Negre iros	NatbnalForest
Una	Refå°gio de V ida S ilvestre De Una	Wildlife Refuge
R b dos Frades	Refðgio de Vida Silvestre do Rio Dos Frades	Wildlife Refuge
Am anà i	F bresta Nac bnaldo Am anã i	NationalForest
Iqu iri	Fbresta Nacional do Iquiri	NationalForest
Nascentes do Lago Jari	Parque NacionalNascentes do Lago Jari	NationalPark
Mã⊚dbPurã°s	Reserva Extrativista do Mão dio Purãos	Extractive Reserve
Ituxà –	Reserva Extrativista Ituxà –	Extractive Reserve
R io X ingu	Reserva Extrativista R io X ingu	Extractive Reserve
Serra da Meruoca	à rea de Proteção AmbientalSerra da Meruoca	Environm ental Protection Area
R b Sã£o Francisco	Monumento Naturaldo R b Sã£o Francisco	NaturalMonument
Prainha do Canto Verde	Reserva Extrativista Prainha do Canto Verde	Extractive Reserve
Renascer	Reserva Extrativista Renascer	Extractive Reserve
-55.775396	-55.775354	-55.774713
Cassurubà i	Reserva Extrativista de Cassurubã i	Extractive Reserve
Marinha da Baia de IguapÃ		Extractive Reserve
Bacia do ParaÃba do Sul	Ãrea de Proteção Ambienta IBacia do ParaÃ-ba Do Su I	Environm ental Protection Area
Jam ari	Fbresta Nacional do Jamari	NationalForest
M apinguari	Parque Nac bna IM aphguari	NationalPark
Paragem	Parque NaturalMunicipaldo Paragem	Municipal Nature Park
i arabem		Muse is its IN atture David
Morada dos Corrãºas		Municipal Nature Park
Morada dos Corrãas Caixa Dãgua	Parque Natural Municipal Caixa Di Aigua	MunicipalNature Park
Morada dos Corrãºas	Parque NaturalMunic palCaixa D Ã gua Parque NaturalMunic palVerde Vale	
Morada dos Corrãªas Caixa Dãgua Verde Vale Grum ari	Parque Natural Municipal Caixa Di Aigua	Municipal Nature Park Municipal Nature Park Municipal Nature Park
Morada dos Corrãªas Caixa Dãgua Verde Vale	Parque NaturalMunic palCaixa D Ã gua Parque NaturalMunic palVerde Vale	Municipal Nature Park Municipal Nature Park
Morada dos Corrãªas Caixa Dãgua Verde Vale Grum ari	Parque Natural Municipal Caixa Di Aigua Parque Natural Municipal Verde Vale Parque Natural Municipal de Grumari	Mun b pal Nature Park Mun b pal Nature Park Mun b pal Nature Park Mun b pal Nature Park Mun b pal Nature Park Mun b pal Nature Park
M orada dos C orrã ªas Caixa D ã gua V erde V a le G rum ari S erra do M endanha	Parque Natural Municipal Caixa Di Aigua Parque Natural Municipal Verde Vale Parque Natural Municipal de Grumari Parque Natural Municipal da Serra do Mendanha	Munic palNature Park Munic palNature Park Munic palNature Park Munic palNature Park
M orada dos Corrã ºas Caixa D Ã gua Verde Vale Grum ari Serra do M endanha Serra da Capoe ra Grande	Parque Natural Municipal Caixa Di Aigua Parque Natural Municipal Verde Vale Parque Natural Municipal de Grumari Parque Natural Municipal da Serra do Mendanha Parque Natural Municipal da Serra Da Capoeira Grande	Mun b pal Nature Park Mun b pal Nature Park Mun b pal Nature Park Mun b pal Nature Park Mun b pal Nature Park Mun b pal Nature Park

Table A5 List of Protected Area in Brazil (continued, 21/25)

Marapendi Parque Natural Munic pal de Marapendi Munic pal Nature Park Bosque da Barra Parque Natural Munic pal Bosque da Barra Munic pal Nature Park Penhasco Dois Imrãsos - Parque Natural Munic pal Penhasco dois Imrãsos - Arquiteto Sãorgio Berna Munic pal Nature Park Darke de Mattos Parque Natural Munic pal Penhasco dois Imrãsos - Arquiteto Sãorgio Berna Munic pal Nature Park Darke de Mattos Parque Natural Munic pal Darke de Mattos Munic pal Nature Park Cidade Parque Natural Munic pal da Gidade Munic pal Nature Park Pranha Parque Natural Munic pal da Pranha Munic pal Nature Park Merquior Parque Natural Munic pal Josão Guiherme Merquior Munic pal Nature Park Fonte da Saudade Parque Natural Munic pal Fonte da Saudade Munic pal Nature Park Jardim do Carmo Parque Natural Munic pal do Cârrego Cumandãa Munic pal Nature Park Praputangas Parque Natural Munic pal do Cârrego Cumandãa Munic pal Nature Park Nova Iguaã Şu Parque Natural Munic pal do Cârrego Cumandãa Munic pal Nature Park Nova Iguaã Şu Parque Natural Munic pal de Petrã polis Barra do Rio Camaratuba Ihas do Rio Paraba do Sul Area de Re Evante Interesse Eco Ãigico — Ihas do Rio Paraba Do Sul Re Evant Eco bgical Interest A Sãão Conrado Area de Re Evante Interesse Eco Ãigico — Ihas do Rio Paraba Do Sul Re Evant Eco bgical Interest A Sãão Conrado Area de Re Evante Interesse Eco Ãigico — Ihas do Rio Paraba Do Sul Re Evant Eco bgical Interest A Dará de Sãão Conrado Area de Prota Ãião Ambiental da Lagoa Verde Environmental Protection Are Morro do Leme Apa do Orá Marã—tima Apa da Orá Marã—tima Environmental Protection Are Brisas Apa das Tabebu as Environmental Protection Are Borra do Roportal Apa da Pasagem E do Area IDa Praia do Pontal Environmental Protection Are Borra do Roportal Apa da Serra Da Capoe ia Grande Environmental Protection Are Borra do Silvãorio Crama da Apa da Serra do Mendanha Environmental Protection Are Environmental Protection Are Environmental Protection Are Environmental Protection Are Environmental Protection Are Environmental Protection Are	A rea ea A rea ea
Parque Natural Municipal Chico Mendes	A rea ea A rea ea
Penhasco Do is Irm & Sos — Parque Natural Munic pal Penhasco do is Irm & Sos — A rquiteto Sãorgio Berna Munic pal Nature Park Parque Natural Munic pal Darke de Mattos Munic pal Nature Park Parque Natural Munic pal da C dade Munic pal Nature Park Pranha Parque Natural Munic pal da C dade Munic pal Nature Park Pranha Parque Natural Munic pal Nature Park Merquic matural Munic pal Nature Park Parque Natural Munic pal Nature Merquic munic pal Nature Park Parque Natural Munic pal Nature Merquic munic pal Nature Park Jardim do Carmo Parque Natural Munic pal Ho Carmo Munic pal Nature Park Jardim do Carmo Parque Natural Munic pal do Jardim Do Carmo Munic pal Nature Park Jardim do Carmo Parque Natural Munic pal do Carrego Cum anda — Munic pal Nature Park Parque Natural Munic pal do Carrego Cum anda — Munic pal Nature Park Praputangas Parque Natural Munic pal do Carrego Cum anda — Munic pal Nature Park Nova guañ § u Parque Munic pal de Nova guañ § u Munic pal Park Petrñ po lis Parque Natural Munic pal de Petrñ bo lis Munic pal Nature Park Barra do Rio Camaratuba Inas do Rio Camaratuba Re bvant Ecological Interest A Saño Josão Apa de Saño Josão Apa de Saño Josão Environmental Protection Are Saño Conrado Are de São Conrado Re bvante Interesse Ecoñ gico — Ihas do Rio Paraba Do Sul Re bvant Ecological Interest A Saño Conrado Are de São Conrado Re bvante Environmental Protection Are Lagoa Verde Area de Proteñ § ñão Ambiental da Lagoa Verde Environmental Protection Are Morros da Babiña na e de Paisagem e do Arealda Praia do Pontal Apa do Serra Da Capoe ia Grande Environmental Protection Are Serra da Capoe ia Grande Apa da Serra Da Capoe ia Grande Environmental Protection Are Serra da Capoe ia Grande Apa do Morro Do Sixãorio Environmental Protection Are Serra da Capoe ia Grande Apa da Ora Marão — Ima Da Baña — a de Sepetba Environmental Protection Are Serra da Capoe ia Grande Apa do Ora Marão — Ima Da Baña — a de Sepetba Environmental Protection Are Sepetba — Apa da Ora Marão — Ima Da Baña — a de Sepetb	A rea ea A rea ea
Darke de Mattos Parque Natural Municipal Darke de Mattos Municipal Nature Park Gidade Parque Natural Municipal de Cidade Municipal Nature Park Pranha Parque Natural Municipal de Cidade Municipal Nature Park Nature Park Municipal Nature Park Nature P	A rea ea A rea ea
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Prainha Josă © Guiherme Merqui or Parque NaturalMunic palda Prainha Merqui or Parque NaturalMunic paldo Să © Guiherme Merqui or Fonte da Saudade Parque NaturalMunic paldo Jardim Do Carmo Parque NaturalMunic paldo Jardim Do Carmo Munic palNature Park Parque NaturalMunic paldo Jardim Do Carmo Munic palNature Park Parque NaturalMunic paldo Că 'rrego Cum andaă — Praputangas Parque NaturalMunic palde Praputangas Munic palNature Park Nova Iguaă Şu Parque NaturalMunic palde Praputangas Nunic palNature Park Nova Iguaă Şu Petră po lis Parque NaturalMunic palde Petră po lis Barra do R io Carnaratuba Area de Re evante Interesse Eco fă 'gico da Barra do R io Carnaratuba Ilhas do R io Paraba do Sul Area de Re evante Interesse Eco fă 'gico — Ihas do R io Paraba Do Sul Re evant Eco bgical Interest A Să£o Conrado Area de Re evante Interesse Eco fă 'gico — Ihas do R io Paraba Do Sul Re evante Eco bgical Interest A Sa£o Conrado Area de Proteă Ş fă£o Conrado Re evante Eco bgical Interest A Iabebu is Apa das Tabebu is Apa das Tabebu is Apa das Tabebu is Apa da O ra Mară — tima Morro do Leme Apa do Norro Do Leme Ora Mară — tima Apa da Paisagem E do Arealda Praia do Pontal Apa da Paisagem E do Arealda Praia do Pontal Apa da Serra Da Capoe ra Grande Morro do Silvă orib Ora Mară — tima Apa da Ora Mară — tima Da Baă — a de Sepetba Apa da Ora Mară — tima Da Baă — a de Sepetba Apa da Ora Mară — tima Da Baă — a de Sepetba Apa da Ora Mară — tima Da Baă — a de Sepetba Apa da Ora Mară — tima Da Baă — a de Sepetba Apa da Ora Mară — tima Da Baă — a de Sepetba Apa da Ora Mară — tima Da Baă — a de Sepetba	A rea ea A rea ea
Merquipr	A rea ea A rea ea
Fonte da Saudade Parque Natural Municipal Fonte da Saudade Jardim do Carmio Parque Natural Municipal Jardim Do Carmio Municipal Nature Park Parque Natural Municipal do Cărirego Cumandaă Parque Natural Municipal do Cărirego Cumandaă Municipal Nature Park Praputangas Parque Natural Municipal do Cărirego Cumandaă Municipal Nature Park Nova Iguaă Şu Parque Natural Municipal de Praputangas Municipal Park Petră polis Parque Natural Municipal de Petră Dolis Municipal Park Petră polis Parque Natural Municipal de Petră Dolis Municipal Park Petră polis Parque Natural Municipal de Petră Dolis Municipal Nature Park Barra do Rio Camaratuba Re evant Ecological Interest A Tana de Re evante Interesse Ecolăgico da Barra do Rio Camaratuba Re evant Ecological Interest A Sălo Josă Apa de Sălo Josă Apa de Sălo Josă Environmental Protection Are Salo Josă Apa de Sălo Josă Apa de Sălo Josă Environmental Protection Are Lagoa Verde Area de Proteă Şălo Ambiental da Lagoa Verde Environmental Protection Are Morro do Leme Apa do Morro Do Leme Environmental Protection Are Morros da Babilă in a e de Apa dos Morros da Babilă in a E de Sălo Joãlo Environmental Protection Are Praia do Pontal Apa da Paisagem E do Areal Da Praia do Pontal Environmental Protection Are Brisas Apa da Serra Da Capoe ra Grande Environmental Protection Are Brisas Apa da Orla Mară - tima Da Bală - a de Sepetba Environmental Protection Are Brivinomental Protection Are Environmental Protection Are Brivai Apa da Orla Mară - tima Da Bală - a de Sepetba Environmental Protection Are Brivinomental Protection Are Environmental Protection Are Brivinomental Protection Are Environmental Protection Are Brivai Apa da Orla Mară - tima Da Bală - a de Sepetba Environmental Protection Are	A rea ea A rea ea
Jardim do Carmo Parque Natural Municipal do Jardim Do Carmo Municipal Nature Park Cà Yrego Cum andãA — Parque Natural Municipal do Cà Yrego Cum andaà — Nunicipal Nature Park Municipal Nature Park P raputangas Parque Natural Municipal de Piraputangas Municipal Nature Park Nova guaà § u Parque Municipal de Nova guaà § u Municipal Nature Park Petrà polis Parque Natural Municipal de Petrà polis Municipal Nature Park Barra do Rio Camaratuba Ārea de Relevante Interesse Eco Ñ gico da Barra do Rio Camaratuba Relevant Eco bgical Interest A Sãão Josão Apa de Sãão Josão Environmental Protection Are Sãão Conrado Are de Sãão Conrado Relevant Eco bgical Interest A Tabebu iss Apa das Tabebu iss Environmental Protection Are Lagoa Verde Area de Proteã §ãão Ambiental da Lagoa Verde Environmental Protection Are Morro do Leme Apa do Morro Do Leme Environmental Protection Are O rão Marão tima Apa do Morros da Babilã na e de Apa do Morros da Babilã na e de Apa do Morros da Babilã na e de Praisagem e do Arealda Apa da Paisagem E do Arealda Praia do Pontal Environmental Protection Are Brisas Apa da Paisagem E do Arealda Prote Grande Environmental Protection	A rea ea A rea ea
Cà 'rrego Cum anda× Parque NaturalMunicipal do Cà 'rrego Cum anda× MunicipalNature Park Praputangas Parque NaturalMunicipal de Praputangas MunicipalNature Park Nova Iguaà S u Parque Nunicipalde Nova Iguaà S u MunicipalNature Park Petrà po lis Parque NaturalMunicipal de Petrà po lis MunicipalNature Park Barra do R io Camiaratuba Area de Relevante Interesse Eco à 'gico da Barra do R io Camiaratuba Relevante Cobgical Interest A Saco Josão Apa de Sãão Josão Apa de Sãão Josão Environmental Protection Are Sãão Conrado Arie de Sãão Conrado Relevante Cobgical Interest A Tabebu is Apa das Tabebu is Environmental Protection Are Lagoa Verde Area de Proteã §ãão Ambientalda Lagoa Verde Environmental Protection Are Oria Marão tima Apa do Morro Do Leme Environmental Protection Are Oria Marão tima Apa da Oria Marão tima Baisão Dontal Apa da Paisagem E do Arealda Praia do Pontal Apa da Serra Da Capoe ia Grande Morro do SiMão ria Apa da Serra Da Capoe ia Grande Morro do SiMão ria Apa da Oria Marão tima Da Baão a de Sepetba Environmental Protection Are	A rea ea A rea ea
P raputangas Parque Natural M un c pal de P raputangas Mun c pal Nature Park Nova Iguaà § u Parque M un c pal de Nova Iguaà § u Mun c pal Park Petrà po lis Parque M un c pal de Petrà po lis Mun c pal Nature Park B arra do R io Cam aratuba Ārea de Re levante Interesse Eco Ñ 'gico da B arra do R io Cam aratuba Ihas do R io Paraba do Sul Area de Re levante Interesse Eco Ñ 'gico − Ihas do R io Paraba Do Sul Re levante Eco bgical Interest A São JosÃ∘ Apa de São JosÃ∘ Environmental Protection Are São Conrado Area de São Conrado Re levante Eco bgical Interest A Tabebu ias Apa das Tabebu ias Environmental Protection Are Lagoa Verde Area de Prote㠧 ão Ambiental da Lagoa Verde Environmental Protection Are Ora MarÃ-tima Apa do Morro Do Leme Ora MarÃ-tima Apa do Ta MarÃ-tima Environmental Protection Are Morros da Babilà 'nia e de Apa dos Morros da Babilà 'nia E de São Joã£o Braia do Pontal Apa da Paisagem E do Area IDa Praia do Pontal Brisas Apa das Brisas Environmental Protection Are Morro do SilÃorio Apa da Serra Da Capoe ra Grande Morro do SilÃorio Apa da O ra MarÃ-tima Da Baã-a de Sepetba Environmental Protection Are	A rea ea A rea ea
Nova Iguaà § u Parque Municipal de Nova Iguaà § u Municipal Park Petrà po lis Parque Natural Municipal de Petrà po lis Municipal Nature Park Barra do Rio Camaratuba Ārea de Re evante Interesse Eco à 'gico da Barra do Rio Camaratuba Re evant Eco bgical Interest A Ihas do Rio Paraba do Sul Area de Re evante Interesse Eco à 'gico - Ihas do Rio Paraba Do Sul Re evant Eco bgical Interest A São Josà □ Apa de São Josà □ Area de São Conrado Re evante Eco bgical Interest A Tabebu ias Apa das Tabebu ias Environmental Protection Are Lagoa Verde Area de Proteà § ão Ambiental da Lagoa Verde Environmental Protection Are Morro do Leme Apa do Norro Do Leme Environmental Protection Are Morros da Babilà 'nia e de Apa dos Morros da Babilà 'nia E de São Joã£o Praia do Pontal Apa da Paisagem E do Area IDa Praia do Pontal Environmental Protection Are Brisas Apa das Srisas Environmental Protection Are Borra da Capoe ira Grande Apa da Serra Da Capoe ira Grande Morro do Silvà □ rio Oris Mar×tina da BaA—a de Sepetba Apa da Oris Mar×tina Da Ba×a de Sepetba Environmental Protection Are	A rea ea A rea ea
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Table A5 List of Protected Area in Brazil (continued, 22/19)

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M achado	à rea de Proteção Ambientalda Bacia Hidrogrà ifica do Rio Machado	EnvironmentalProtection Area
Uain ii	F bresta Estadualdo U am ii	State Forest
Jacarandã i	à rea de Proteà § ão Ambienta Ida F bresta do Jacarandà i	Environm ental Protection Area
M assam baba	Ãrea de Proteção Ambientalde Massambaba	EnvironmentalProtection Area
R io Preto	à rea de Proteção Ambientaldo R io Preto	EnvironmentalProtection Area
SãoDesidÃ⊚rio	Ãrea de Proteção Ambientalde São Desidério	EnvironmentalProtection Area
Lago de Tucurui	Ãrea de Proteção Ambientaldo Lago de Tucurui	EnvironmentalProtection Area
Triunfo do Xingu	Ãrea de Proteção AmbientalTriunfo do Xingu	Environmental Protection Area
Paru	F bresta Estadua I do Paru	State Forest
A bobaç a	Reserva de Desenvo vimento Sustentã ive lA bobaã § a	Sustainable Development Reserve
Pucuruà - Ararão	Reserva de Desenvo vimento Sustentã ve IPucuruã A rarã £o	Sustainable development Reserve
Iha do Combu	Ãrea de Proteà § ão Ambientalda Iha do Combu	Environmental Protection Area
A godoa⊢maiandeua São Gerablo do	Ārea de ProteĀ §Ā£o Am bientalde Algodoa⊢m aiandeua	Environmental Protection Area
A ragua ia	Ãrea de Proteção Ambientalde São Gerablo Do Araguaia	Environm ental Protection Area
Regão M etro bo litana	A rea de Protek 9 Aão Am Dentande Saão derado Do Araguad	Environmentary rotecton Area
de Be à om	Ãrea de Proteção Ambientalda Regão Metro politana De Beém	EnvironmentalProtection Area
Paytuna	à rea de Proteà § ão Ambiental Paytuna	Environmental Protection Area
R b CÃ °n co Rotas MonÃ	mos as 1.15 wh graw himborium ujumu	2 Chim on will 10 wo con Alba
§ oe iras	à rea de Proteà § ão AmbientalR io Cà °n ico Rotas Monà § oe iras	Environm ental Protection Area
A rqu p㠉 ago do M ara à 3	à rea de Proteà § ão Ambientaldo Arquipé lago Do Maraó	EnvironmentalProtection Area
D e spra iado	Rds do Despraíado	Sustainable Development Reserve
Estrada de P iraputanga	Ãrea de Proteção Ambienta l Estrada Parque De Piraputanga	Environmental Protection Area
Jum a	Reserva de Desenvo l/m ento Sustentà j/eldo Jum a	Sustainable Dievelopment Reserve
Trombetas	Fbresta Estadualdo Trombetas	State Forest
Faro	F bresta Estadual de Faro	State Forest
Serra do 0 uro	Ãrea de Proteção Ambientalda Serra do Ouro	Environmental Protection Area
Lago de Sobradinho	Ārea de ProteĀ ṢĀ£o Am bienta ILago de Sobradinho	Environm ental Protection Area
Lagoa de Itrica	Ãrea de Proteà § ão Ambienta Lagoa de Itaparica	Environmental Protection Area
Lagoas de Guarajuba	Ārea de ProteĀ § Ā£o AmbientalLagoas de Guarajuba	Environmental Protection Area
Santa Rita	Ārea de ProteĀ ŞĀ£o Ambientalde Santa Rita	Environmental Protection Area
Piquiri-una	A rea de ProteA § A £ o Ambienta Piquiri-una	Environmental Protection Area
R io Iratapuru R io Curiaãº	Reserva de Desenvo vimento Sustentã iveldo R b Iratapuru à rea de Prote㠧 ão Ambientaldo R b Curia㠰	Sustainable development Reserve
Fazendinha	Ãrea de Proteção Ambentalda Fazendinha	Environm ental Protection Area Environm ental Protection Area
à rvores Fossilizadas	Monum ento Naturaldas Arvores Fossilizadas	Natural Monument
Guaxindba	Estaà § ão Eco à ³gica Estadual de Guaxind ba	Eco bgical Station
Barre iro Rico	Estaà § ão Eco à ³gica do Barre iro R ico	Eco bgical Station
Jardin Botã,nico	Estaà § ão Ecoà 'gica do Jardim Botân ico	Eco bgical Station
Sassafras	Reserva B is bgica Estadua I do Sassafras	B b bgicalReserve
Serra de Caldas Novas	Parque Estadual da Serra de Caldas Novas	State Park
P rheus	Parque Estadual dos Pirineus	S tate P ark
Terra Ronca	Parque Estadual de Terra Ronca	S tate P ark
Paraà °na	Parque Estadualde Paraà °na	S tate P ark
A ragua ia	Parque Estadual do Aragua ia	State Park
Serra Dourada	Parque Estadual da Serra dourada	State Park
Descoberto	Parque Estadual do Descoberto	State Park
M ata A t Ñ intica	Parque Estadual da Mata Atlaentica	State Park
Campos Altos	Parque Estadua I Campos Altos	State Park
L Grande	Parque Estadual da Lapa Grande	State Park
Serra da Candonga	Parque Estadua I Serra da Candonga Parque Estadua I Serra Nova	State Park
Serra Nova Cunham bebe	Parque EstadualSerra Nova Parque EstadualCunham bebe	S tate P ark S tate P ark
A cauã	Estaà § ão Eco à ³gica de Acauã	Eco bgical Station
Serra do Intendente	Parque Estadua Serra do Intendente	State Park
Serra do Cabra I	Parque Estadual da Serra do Cabral	State Park
R is Pande iros	RefA°g b Estadual de V da S ilvestre R b Pande iros	Wildlife Refuge
Guarà i	Reserva B io A *gica do GuarA i	B b bg cal Reserve
R io Descoberto	Reserva B is A gica do R is descoberto	B b bgcalReserve
Pau Furado	Parque Estadua I Pau Furado	S tate P ark
A Ito do Cariri	Parque Estadual A Ito do Cariri	State Park
M ata dos M uriquis	Refå°g io Estadual de V ida S ilvestre M ata dos M uriqu is	Wildlife Refuge
Sagarana	Estação Ecoógica de Sagarana	Eco bgical Station
M ontezum a	Parque Estadual de Montezum a	State Park
Cam inho dos Gerais	Parque Estadual Cam inho dos Gerais	State Park
Cercadinho	Estaà § ão Eco à 'gica do Cercadinho	Eco bgical Station
	Parque Estadua Serra da Boa Esperanã § a	State Park
Serra Verde	Parque Estadual Serra Verde	State Park
à guas Em endadas	Estaà § ão Eco à giza de à guas Em endadas	Eco bgical Station
G am a Tha G rande	Reserva B b à gba do Gama Parque Estadualda Iha Grande	B b bgicalReserve S tate Park
S e rra dos M artÃ	i arque Estatua i la urallut	o www.rain
rbs/andornhas	Parque Estadual da Serra dos MartÃ-rios/Andorinhas	S tate P ark
M onte A legre	Parque Estadual da Serra dos Marta - rbs/ Andornnas	State Park
Maicuru	Reserva B io A 3gia de Maicuru	B b bgcalR eserve
Utinga	Parque Estadual do Utinga	State Park
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Table A5 List of Protected Area in Brazil (continued, 23/25)

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	Jornalista Iuż Maria	Dunas de Natal" Jornalista Luiz Maria Alves	State Park
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Manoki Manoki Indigenous Area İki Mitari İki Mitari İndigenous Area Jacare Ā ba/Katau ki Jacare Ā ba/Katau ki İndigenous Area Porquinhos dos Cane la İndigenous Area Apan jakra Porquinhos dos Cane la Apan jakra Gerjanc Ā ' Gerjanc Ā ' Acquired Indigenous Area Bacurizinho Bacurizinho Indigenous Area Barra Ve ha Barra Ve ha Indigenous Area	Guaranido R be rãão S ilve ira Trukã i O fayão — X avante Cachoe rinha Ibiram a-La K bnã ´ Kari i-Xocã ³ Porto L indo Potiguara de Monte-Mor Pequizaldo Naruvã ´tu R b Gregã 'rò	Guaranido R beirã so Silveira Trukãi O fayão - X avante Cachoeirinha biram a-La K bnã ´ Kariri-Xocã ' Porto Lindo Potiguara de Monte-Mor Pequizal do Naruvã ´tu R b Gregã 'rio	Indigenous A rea Indigenous A rea Dom n'al Indigenous A rea Indigenous R eserve Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea
Itki Mitari Itki Mitari Indigenous Area Jacare A ba/Katau ki Jacare A ba/Katau ki Indigenous Area Porquinhos dos Cane ba-Apan jekra Indigenous Area Apan jekra Porquinhos dos Cane ba-Apan jekra Indigenous Area Gerjanc A acquired Indigenous Area Bacur zinho Bacur zinho Indigenous Area Barra Ve ha Barra Ve ha Indigenous Area	Guaranido R be řášo S ike řa Truká i O fayá – X avante C achoe řihha břam a–La K kná ´ K arři-X ocá ³ Porto Lindo Potguara de Monte–Mor Pequ žaldo Naruvá řu K b Gregá řib K ayabi	Guarani do R be irã £o S ilve ira Truk Ä i O fay à o – X avante C achoe ir inha biram a–L a K lanã / Kariri-X ocã ' Porto L indo Potiguara de Monte–Mor Pequizal do Naruvã ' tu R io G regã ' rio Kayabi	Indigenous Area Indigenous Area Dom in al Indigenous Area Indigenous Reserve Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area
Jacareà °ba/K atau ki Jacareà °ba/K atau ki Indigenous A rea Porquinhos dos C ane b— Apan jekra Porquinhos dos C ane b—Apan jekra Indigenous A rea Geripancà ° Gerpancà ° Acquired Indigenous A rea Bacuriz nho Bacuriz nho Indigenous A rea Barra V e ha Barra V e ha Indigenous A rea	Guaranido R be rã £ o Silve ra Trukã i O fayã = X avante Cachoe rinha biram a-La K lanã / Karri-Xocã , Porto Lindo Potiguara de Monte-Mor Pequizaldo Naruvã (tu R b Gregã (rb) Kayabi Caarapã (r)	Guarani do R be irã £o S ilve ira Trukă i O fayà = -Xavante Cachoe irinha Ibiram a-La K lană ' Kariri-Xocă ' Porto Lindo Potiguara de Monte-Mor Pequi izaldo Naruvã 'tu R b G regã 'rio Kayabi Caarapă '	Indigenous Area Indigenous Area Dom n'al Indigenous Area Indigenous Reserve Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area
Jacareà °ba/K atau ki Jacareà °ba/K atau ki Indigenous A rea Porquinhos dos C ane b— Apan jekra Porquinhos dos C ane b—Apan jekra Indigenous A rea Geripancà ° Gerpancà ° Acquired Indigenous A rea Bacuriz nho Bacuriz nho Indigenous A rea Barra V e ha Barra V e ha Indigenous A rea	Guaranido R be rãão S iveira Trukãi O fayão — X avante C achoe rinha biram a— La K lanã K arri-X ocã' Porto Lindo Potguara de Monte—Mor Pequizaldo Naruvã 'tu R b Gregã'rb K ayabi C aarapã' M anoki	Guaranido R beirã so Silveira Trukã i O fayã o - Xavante Cachoeirinha biram a-La K lanã ´ Kariri-Xocã ¹ Porto Lindo Potguara de Monte-Mor Pequizaldo Naruvã ´tu R io Gregã rio Kayabi Caarapã ¹ Manoki	Indigenous Area Indigenous Area Dom n'al Indigenous Area Indigenous Reserve Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area
Porquinhos dos Cane la— Apan jekra Apan jekra Geripancó Gerpancó Gerpancó Acquired Indigenous Area Bacurzinho Bacurzinho Bacurzinho Bacurzinho Barra Ve ha Barra Ve ha Barra Ve ha	Guaranido R be rãão S iveira Trukãi O fayão — X avante C achoe rinha biram a— La K lanã K arri-X ocã' Porto Lindo Potguara de Monte—Mor Pequizaldo Naruvã 'tu R b Gregã'rb K ayabi C aarapã' M anoki	Guaranido R beirã so Silveira Trukã i O fayã o - Xavante Cachoeirinha biram a-La K lanã ´ Kariri-Xocã ¹ Porto Lindo Potguara de Monte-Mor Pequizaldo Naruvã ´tu R io Gregã rio Kayabi Caarapã ¹ Manoki	Indigenous Area Indigenous Area Dom n'al Indigenous Area Indigenous Reserve Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area
Apan jekra Porquinhos dos Cane la-Apan jekra Indigenous Area Ger panc A³ Ger panc A³ Acquired Indigenous Area Bacur E inho Bacur E inho Indigenous Area Barra Ve ha Barra Ve ha Indigenous Area	Guaranido R be rã £ o Silve ra Trukã i O fayã = Xavante Cachoe rinha biram a-La K lanã Karri-Xocã Porto L Indo Potguara de Monte-Mor Pequizaldo Naruvã tu R o Grejã ro Kayabi Caarapã * Manoki Etki M ltari	Guarani do R be irã £o S ilve ira Truk Ă i O fay à o – X avante Cachoe ir inha biram a–La K hanã / Kariri-Xoc à ' Porto L indo Potguara de Monte–Mor Pequizaldo Naruvã 'tu R o Gregã 'r io K ayabi Caarapã ' Manoki It xi M itari	Indigenous Area Indigenous Area Dom hial Indigenous Area Indigenous Reserve Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area
Gerpancà Gerpancà Acquired Indigenous Area Bacuriz hho Bacuriz hho Indigenous Area Barra Ve ha Barra Ve ha Indigenous Area	Guaranido R be rã £ o Silve ra Trukã i O fayã - Xavante Cachoe rinha biram a-La K lanã ' Karri-Xocã' Porto Lindo Potiguara de Monte-Mor Pequizaldo Naruvã 'fu R o Gregã 'rio K ayabi Caarapã ' M anoki Itkii M tari Jacareã 'ba/K atau ki	Guarani do R be irã £o S ilve ira Truk Ă i O fay à o – X avante Cachoe ir inha biram a–La K hanã / Kariri-Xoc à ' Porto L indo Potguara de Monte–Mor Pequizaldo Naruvã 'tu R o Gregã 'r io K ayabi Caarapã ' Manoki It xi M itari	Indigenous Area Indigenous Area Dom hial Indigenous Area Indigenous Reserve Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area
Bacurizinho Bacurizinho Indigenous Area Barra Ve ha Barra Ve ha Indigenous Area	Guaranido R be rã £ o Silve ra Trukã i O fayã - Xavante Cachoe rinha biram a-La K lanā ' Karri-Xocã' Porto Lindo Potiguara de Monte-Mor Pequizal do Naruvã 'tu R b Gregã' rio Kayabi Caarapã' Manoki Itiki Mari Jacareã 'ba/Katau ki Porquinhos dos Cane la-	Guaranido R be irã £o S ilve ira Trukă i O fayĂ = -Xavante Cachoe irinha Diram a-La K lană ' Kariri-Xocă ' Porto Lindo Potiguara de Monte-Mor Pequizaldo Naruvă 'tu R b G regă 'rio Kayabi Caarapă ' Manoki ItkiM itari Jacareă °ba/Katau ki	Indigenous Area Indigenous Area Dom n'al Indigenous Area Indigenous Reserve Indigenous Area
Barra V e ha Barra V e ha Indigenous A rea	Guaranido R be rã so Sive ra Trukã i O fayã o — X avante Cachoe rinha biram a— La K anā 'Kari-Kocā' Porto Lindo Potiguara de Monte—Mor Pequizaldo Naruvã 'fu R b G regã rb Kayabi Caarapã' Manoki Etki M tari Jacareã "ba/K atau ki Porquinhos dos Cane b— A pan jekra	Guaranido R be irã so S ilve ira Trukă i O fayă e – Xavante Cachoe irinha biram a– La K Iană ' Kariri-Xocă ' Porto Lindo Potiguara de Monte– Mor Pequizal do Naruvă 'tu R o G regă ro Kayabi Caarapă ' M anoki Itixi M itari Jacareă "ba/K atau ixi Porqu inhos dos Cane la–Apan jekra	Indigenous Area Indigenous Area Dom n'al Indigenous Area Indigenous Reserve Indigenous Area
	Guaranido R be rã £ o Sike ra Trukã i O fayã = Xavante Cachoe rinha biram = La K lanã Karri-Xocã ' Porto L indo Potguara de Monte-Mor Pequizaldo Naruvã 'fu R o Gregã ro Kayabi Caarapã ' Manoki Itiki M tari Jacareã 'ba/Katau ki Porqu inhos dos Cane la- Apan jekra Gerpancã '	Guarani do R be irã £o S ilve ira Trukă i O fayă o – X avante Cachoe ir inha biram a–La K lană / Kariri X co ă Porto L indo Potiguara de Monte–Mor Pequi zalo Naruvă ftu R io Gregă rio K ayabi Caarapă ri M anoki It ki M tari Jacareă °ba/K atau ki Porquinhos dos Cane la–Apan jekra Gerpancă ri	Indigenous Area Indigenous Area Dom his Indigenous Area Indigenous Reserve Indigenous Area
ranomamı yanomamı İndigenous Area	Guaranido R be rã £ o Silve ra Trukã i O fayã - Xavante Cachoe rinha biram a-La K lanã ' Karri-Xocã' Porto Lindo Potiguara de Monte-Mor Pequizaldo Naruvã 'fu R b Gregã rio Kayabi Caarapã' Manoki Itkii M tari Jacareã 'ba/K atau ki Porquinhos dos Cane la- Apan jekra Gerpancã' B acurizinho	Guaranido R be irã £o S ilve ira Trukă i O fayĂ o – Xavante Cachoe irinha biram a–La K lană / Kariri-Xocă ' Porto Lindo Potiguara de Monte–Mor Pequizaldo Naruvă fu Ro Gregă rib Kayabi Caarapă ' Manoki İtkili İtari Jacareă "ba/K atau ki Porqu inhos dos Cane la–Apan jekra Gerpancă ' Bacur iz inho	Indigenous Area Indigenous Area Dom n is I Indigenous Area Indigenous Reserve Indigenous Area
	Guaranido R be rã £ o Silve ra Trukã i O fayã - Xavante Cachoe rinha biram a-La K lanã / Karri-Xocã ' Porto Lindo Potiguara de Monte-Mor Pequizal do Naruvã ' fu R b Gregã ' b Kayabi Caarapã ' Manoki Itixi M tari Jacareã 'ba/Katau ki Porquinhos dos Cane la- Apan jakra Gerpancã ' Bacur zinho Barra V e ha	Guaranido R beirã so Silveira Trukă i O fayà o – Xavante Cachoeirinha Diram a–La K lanã ´ Kariri-Xocã ¸ Porto Lindo Potiguara de Monte–Mor Pequizaldo Naruvã ´tu R b Gregã 'rib Kayabi Caarapã ¸ Manoki ItixiMitari Jacareā °ba/Katauixi Porquinhos dos Cane la–Apan jekra Geripancã ¸ Bacuricinho Barra V e ha	Indigenous Area Indigenous Area Dom n'al Indigenous Area Indigenous Reserve Indigenous Area

Table A5 List of Protected Area in Brazil (continued, 24/25)

Xapecð (Pinha kinho-	Vana a T 3 D inha hinha Canhadaa	Indireneus Avec
Canhadao)	X apec à ³ (P inha ½ inho – C anhadao)	Indigenous A rea
BoaVista – AM Pahrital	Boa V ista – AM Palm ital	Indigenous Area Indigenous Area
Pam ital Tekoha Itam ara	Pam ital Tekoha Itam ara	A cquired Indigenous Airea
N ipaque	N baque	Indigenous Area
Lalina	La lin a	Indigenous Area
Pilad RebuÃi	Pilad Rebuà j	Indigenous Area
Jaraguà į	Jaraguà i	Indigenous A rea
Barragem	Barragem	Indigenous Area
K rukutu	K rukutu	Indigenous Area
Jaraguà i	Jaraguà i	Indigenous Area
K renak	Krenak	Indigenous A rea
Cahy/Pequi	Cahy/Pequi	Indigenous A rea
Jerpancó	Jerpancà ³	Indigenous A rea
Mundo Novo/V iraç ao	Mundo Novo/V iraç ao	Indigenous A rea
Kane a-BuritiVe ho	K ane a–B u riti V e ho	Indigenous A rea
Governador	Governador	Indigenous A rea
P an ta bao	Panta leao	Indigenous A rea
Baixo Grande	Baixo Grande	Indigenous A rea
Apurna Igarapé	A	E. dinamana Ama
Tauam rin	Apurna Igarapî Tauam rim	Indigenous A rea
Zorà 3	Zorà 3	Indigenous Area
Igarapà © Lourdes	Igarapà © Lourdes	Indigenous Area
Puruborã i Pir neus de Souza	Puruboră i Pirneus de Souza	Indigenous A rea Indigenous A rea
Enawenê-Nawê	Prneus de Souza Enawenã ^a -Nawã ^a	Indigenous Area
Sororó – G eba	ETICH STIA IN CHARACTER STATE OF THE STATE O	III Genous Alea
Tuapekuakau	Sororó – G eba Tuapekuakau	Indigenous A rea
kpeng	kpeng	Indigenous Airea
P in ente IB arbosa	Pim ente l Barbosa	Indigenous A rea
Areoes	Areoes	Indigenous Area
	Sangradouro/Volta Grande	Indigenous Area
Tereza Cristina	Tereza Cristina	Indigenous A rea
M enku	M enku	Indigenous A rea
R io Form oso	R ip Form oso	Indigenous A rea
	Sao Sebastao Meneroazinho	Indigenous A rea
Karitiana	Karitana	Indigenous A rea
Igarapà © Preto/Pauana	Igarapà © Preto/Pauana	Indigenous A rea
Zuruaha	Zuruaha	Indigenous A rea
Jam inawa Arara do Rio		
B agà ©	Jam inawa Arara do R io BagÃ⊙	Indigenous A rea
Nukini A rara da V o Ita G rande do	Nukni	Indigenous A rea
	A raya da V a ta Granda da V ingu	Indireneus Avec
X ingu	A rara da V o Ita G rande do X ingu	Indigenous A rea
Mata Medonha Coroa Vermeha	M ata M edonha Coroa V erm e ha	Indigenous A rea Indigenous A rea
Thas da Tapera/Sao FA©	0010a y 61111 6114	III GOTTOUS ATOA
lix/Porto	II	Indigenous A rea
	Inas da lanera/San Fa © IN/Porto	
IApnavão II	Ihas da Tapera/Sao Fã⊚ lix/Porto Apnavã⊚ II	
Aphayé II Tapirapé /KaraÃi	AphayÃ∘ II	Indigenous A rea
Aphayé II Taprapé/KaraÃi Sao Domingos - MT		
Tap rapà © / K ara à i	ApinayÃ∘ II TapirapÃ∘/KaraÃi	Indigenous A rea Indigenous A rea
Taprapé/KaraÃi Sao Domingos-MT	ApinayÃ∘ II TapirapÃ∘/KaraÃi Sao Domingos - MT	Indigenous A rea Indigenous A rea Indigenous A rea
Tapirapã⊚/Karajãi Sao Domingos - M T Paquíã§amba	ApinayÃ∘ II TapirapÃ∘/KaraÃi Sao Domingos - MT Paquçamba	hdigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea
Taprapā • /K ara Ā i Sao Dom ngos - M T Paqu Ā § am ba Brinco das M oĀ § as M uratuba do ParĀ i Bako Tapa Ā 's/Arapuns	ApinayÃ∘ II TapirapÃ∘/KaraÃi Sao Dom ingos - MT Paquç am ba Brinco das Moç as Muratuba do ParÃi Baixo TapaÃ's/Arapins	Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea
Tapirapā o /Kara Ā i Sao Dom ingos - M T Paqu Ā § am ba B rinco das M o Ā § as M uratuba do Parā i B ako Tapa Ā 's/Arapuns Bako R b Negro II	ApnayÃ∘ II TaprapÃ∘ KaraÃi Sao Domingos - MT Paquà § sam ba Brinco das Moà § as Muratuba do ParÃi Bako TapaÃ's/Arapúns Bako R b Negro II	Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area
Tapirapā o /Kara Ā i Sao Dom ingos - M T Paqu Ā § am ba B rinco das M o Ā § as M uratuba do Parā i B ako Tapa Ā 's/Arapuns Bako R b Negro II	ApinayÃ∘ II TapirapÃ∘/KaraÃi Sao Dom ingos - MT Paquç am ba Brinco das Moç as Muratuba do ParÃi Baixo TapaÃ's/Arapins	Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea
Taprapā o / Kara Ři Sao Dom ingos - M T Paqu Ř § am ba B rinco das M o Ř § as M uratuba do ParŘi B ako Tapa Ř 's / Arapuns B ako R b Negro II Ch quitano de Baia Grande Panam bi	Apinayà o II Tapirapà o / Karaà i Sao Dom ingos – M T Paquà § am ba Brinco das Moà § as Muratuba do Parà i Ba ko Tapaà 's / Arapuns Baixo R o Negro II C hipu tano de Baia Grande Panam bi	Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea
Tap rapā o / K ara Ř i S ao Dom ingos - M T P aqu à § am ba B rinco das M o à § as M uratuba do P ar à i B ako T apa à 's / Arapuns B ako R b N egro II C h i u tano de Ba a G rande P an am b i Am am ba pe gu à i	Apinayà o II Tapirapà o / Karaà i Sao Dom ingos - M T Paquà § am ba Brinco das Moà § as Muratuba do Parà i Bako Tapaà 's / Arapuns Bako R b Negro II Chiquitano de Baia Grande Panam bi Am am ba þeguà i	Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea Indigenous A rea
Tap rapā o / K ara Ř i S ao D om ingos - M T P aqu Ř § am ba B rinco das M o Ñ § as M uratuba do P ar Ř i B a ko T apa Ř 's / A rap uns B a ko R b N egro II C h qui tano de B a a G rande P ana mb D a pegu Ř i D ourados - A m am ba þe gu Ř i	ApinayÃ∘ II TapirapÃ∘ / KaraÃi Sao Dom ingos - M T Paquà § sam ba Brinco das Moà § as Muratuba do ParÃi Bako Tapaà 's/Arapins Bako R o Negro II Chiquitano de Baia Grande Panam bi Am am ba peguà i Dourados-Ām am ba peguà i	Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area Indigenous Area
Taprapā ○ / Kara Ři Sao Dom ingos - M T Paqu à § am ba B rinco das M oĀ § as M uratuba do Parà i B ako Tapa à 's / Arapuns B ako R o Negro II Chipu itano de Ba a Grande Panam bi Am am ba peguà i Dourados-Am am ba peguà i Iguatem peguà i	ApnayÃ∘ II TaprapÃ∘/KaraÃi Sao Dom ingos - M T Paquà § sam ba Brinco das Moà § as Muratuba do ParÃi Bako Tapaà is/Arapuns Bako Ro Negro II Chiquitano de Baia Grande Panam bi Am am ba þeguÃi Dourados-Am am ba þeguÃi Iguatem þeguÃi	Indigenous A rea Indigenous A rea
Taprapā ○ / Kara Ři Sao Dom ingos - M T Paqu à § am ba B rinco das M oĂ § as M uratuba do Parà i B ako Tapa à 's / Arapuns B ako R b Negro II C hipu tano de B aia G rande Panam bi Am am ba peguà i B utano de Ba in B rande	Apinayà o II Tapirapà o / Karaà i Sao Dom ingos - M T Paquà § sam ba Brinco das Moà § as Muratuba do Parà i Ba ko Tapaà 's / Arapuns Ba ko R b Negro II Chipu itano de Ba ia Grande Panam bi Am am ba peguà i Dourados-Ām am ba peguà i Brihantepeguà i	Indigenous A rea Indigenous A rea
Taprapā o / Kara Ā i Sao Dom ingos - M T Paqu Ā § am ba B rinco das M o Ā § as M uratuba do Parā i B ako Tapa Ā 's / Arapuns B ako Tapa Ā 's / Arapu	Apinayà o II Tapirapà o / Karaà i Sao Dom ingos - MT Paquàs am ba Brinco das Moà sas Muratuba do Parà i Bako Tapaà s/ Arapuns Bako Ro Negro II Chiquitano de Baia Grande Panam bi Am am bapeguà i Dourados-Am am bapeguà i Iguatem peguà i Brihantepeguà i Ā ahdà ovapeguà i	Indigenous Area Indigenous Area
Taprapā ○ /Kara Ři Sao Dom ingos - M T Paqu à § am ba Brico das Moà § as Muratuba do Parà i Bako Tapa à 's/Arapuns Bako Tapa à 's/Arapuns Bako Ro Negro II Chipu tano de Baia Grande Panam bi Am am ba peguà i Dourados - Ām am ba peguà i Brihantepeguà i Ā andà ○ vapeguà i R b Pequeno	Apinayà • II Tapirapà • / Karaà i Sao Dom ingos - M T Paquà § sam ba Brinco das M oà § as Muratuba do Parà i Bako Tapaà *s/Arapins Bako R b Negro II Chiquitano de Baia Grande Panam bi Am am ba peguà i Dourados-Am am ba peguà i Iguatem peguà i Brihantepeguà i Ā andà • vapeguà i R b Pequeno	Indigenous Area Indigenous Area
Taprapā ○ / Kara Ři Sao Dom ingos - M T Paqu à § am ba B rinco das M oĀ § as M uratuba do Parà i B ako Tapa à 's / Arapuns B ako R o Negro II Ch iu itano de B a a G rande Panam bi Am am ba pegu à i D ourados - Am am ba pegu à i B rihantepegu à i Ā andà ○ vapegu à i R b Pequeno A randu — M rim	Apinayà o II Tapirapà o / Karaà i Sao Dom ingos - M T Paquà § sam ba Brinco das M oà § as Muratuba do Parà i Bako Tapaà 's/Arapuns Bako R o Negro II Chiquitano de Baia Grande Panam bi Am am ba peguà i Dourados-Am am ba peguà i Iguatem peguà i Brihantepeguà i Ā andà o vapeguà i To Pequeno Arandu-M rim	Indigenous A rea Indigenous A rea
Taprapā ○ / Kara Ři Sao Dom ingos - M T Paqu à § am ba B rinco das M oĂ § as M uratuba do Parà i B ako Tapa à 's / Arapuns B ako R b Negro II Chipu tano de B aia G rande Panam bi Am am ba peguà i B rihan tepeguà i B rihan tepeguà i Ā ándà ○ vapeguà i R b Pequeno A randu-M rim C erco G rande	Apinayà o II Tapirapà o / Karaà i Sao Dom ingos - M T Paquà § sam ba Brinco das Moà § as Muratuba do Parà i Ba ko Tapaà 's/Arapuns Ba ko R b Negro II Ch ipu itano de Ba ia Grande Panam bi Am am ba peguà i Dourados-Am am ba peguà i Brihantepeguà i Ā andà o vapeguà i R b Pequeno Arandu—M rim Cerco Grande	Indigenous A rea Indigenous A rea
Taprapā o / Kara Ři Sao Dom ingos - M T Paqu à § am ba B rinco das M o à § as M uratuba do Parà i B ako Tapa à 's / Arapuns B ako R b Negro II Chipu tano de B aia G rande Panam bi Am am ba peguà i Dourados - Am am ba peguà i Byatem peguà i B rihantepeguà i Ā ándà o vapeguà i R b Pequeno A randu - M rim Cerco G rande K aruguà i	Apinayà o II Tapirapà o / Karaà i Sao Dom ingos - MT Paquàs am ba Brinco das Moà sas Muratuba do Parà i Bako Tapaà s/Arapins Bako Ro Negro II Chiquitano de Baia Grande Panam bi Am am bapeguà i Dourados-Am am bapeguà i [guatem peguà i Brihantepeguà i Ā andà ovapeguà i R o Pequeno Arandu-M irin Cerco Grande Karuguà i	Indigenous Area Indigenous Area
Taprapā ○ / Kara Ři Sao Dom ingos - M T Paqu à § am ba Brico das Moà § as Muratuba do Parà i Ba ko Tapa à 's / Arapuns Ba ko R io Negro II Chiquitano de Baia Grande Panam bi Am am ba peguà i Dourados - Am am ba peguà i Brihantepeguà i Brihantepeguà i Ā andà ○ vapeguà i à io Pequeno A randu - M rim Gerco Grande Karuguà i Sam baqui	Apnayà • II Taprapà • / Karaà i Sao Dom ingos - M T Paquà § sam ba Brinco das M oà § as Muratuba do Parà i Ba ko Tapaà 's/Arapuns Ba ko R o Negro II Chiquitano de Ba ia Grande Panam bi Am am ba peguà i Dourados-Am am ba peguà i Iguatem peguà i Brihantepeguà i Brihantepeguà i R o Pequeno Arandu-M rim Cerco Grande Karuguà i Sam baqu i	Indigenous Area Indigenous Area
Taprapā ○ / Kara Ři Sao Dom ingos - M T Paqu à § am ba B rinco das M oĀ § as M uratuba do Parà i B ako Tapa à 's / Arapuns B ako R io Negro II Chiquitano de Baia Grande Panam bi Am am ba peguà i Dourados-Am am baipeguà i Brihantepeguà i B rihantepeguà i B rihantepeguà i Ta indà ○ vapeguà i R io Pequeno A randu-M rim Cerco Grande Karuguà i Sam baqui Ka'aguy Poty	Apinayà ∘ II Tapirapà ∘ /KaraÃi Sao Dom ingos - M T Paquà § sam ba Brinco das M oà § as Muratuba do ParÃi Bako Tapaà ¹s/Arapuns Bako R o Negro II Chiquitano de Baia Grande Panam bi Am am ba peguà i Dourados-Am am ba peguà i Iguatem peguà i Brihantepeguà i Ā andà ∘ vapeguà i A and o vapeguà i R o Pequeno Arandu-M rim Cerco Grande Karuguà i Sam baqu i Ka¹aguy Poty	Indigenous A rea Indigenous A rea
Taprapā ○ / Kara Ři Sao Dom ingos - M T Paqu à § am ba B rinco das M oĂ § as M uratuba do Parà i B a ko Tapa à S / Arapuns B aixo R io Negro II Chiputano de Ba ia Grande Panam bi Am am ba peguà i Dourados - Am am ba peguà i Brihantepeguà i Ā andà ○ vapeguà i R io Pequeno A randu - M rim Cerco Grande Karuguà i Sam baqui Karaguà i Sam baqui Karagu Poty Cacique Doble	Apinayà o II Tapirapà o / Karaà i Sao Dom ingos - MT Paquà § Sam ba Brinco das Moà § as Muratuba do Parà i Ba ko Tapaà 's/Arapins Ba ko Tapaà 's/Arapins Ba ko R io Negro II Chiquitano de Ba a Grande Panam bi Am am ba peguà i Dourados-Am am ba peguà i Iguatem peguà i Brihantepeguà i Ā andà o vapeguà i R io Pequeno Arandu-M rim Cerco Grande Karuguà i Sam baqu i Ka 'aguy Poty Cac que Dobe	Indigenous Area Indigenous Area
Tap rapà ○ / Kara à i Sao Dom ingos - M T Paquà § am ba B rinco das M oà § as M uratuba do Parà i B ako Tapa à 's / Arapuns B ako R b Negro II Chiquitano de Baia Grande Panam bi Am am ba peguà i Dourados - Am am ba peguà i B rihantepeguà i B rihantepeguà i Ā ándà ○ vapeguà i R b Pequeno A randu - M rim Cerco Grande K aruguà i Sam baqu i K a 'aguy Poty Ca cique Dobb Carre te ro	ApinayÃ∘ II TapirapÃ∘/KaraÃi Sao Dom ingos - MT Paquà § sam ba Brinco das Moà § as Muratuba do ParÃi Bako Tapaà 's/Arapins Bako R b Negro II Chiquitano de Baia Grande Panam bi Am am ba peguÃi Dourados-Am am ba be guÃi [guatem peguÃi FrihantepeguÃi Ā andà ovapeguÃi R io Pequeno Arandu-M irim Cerco Grande KaruguÃi Sam baqui Ka'aguy Poty Cac que Dobb Carre te iro	Indigenous Area Indigenous Area
Taprapā ○ / Kara Ři Sao Dom ingos - M T Paqu à § am ba B rico das M oĀ § as M uratuba do Parà i B a ko Tapa à 's / Arapuns B ako R io Negro II Chiquitano de Baia Grande Panam bi Am am ba peguà i Dourados - Am am baipeguà i B rihantepeguà i B rihantepeguà i Ā andà ○ vapeguà i Ā b Pequeno A randu - M rim Cerco Grande K aruguà i S am baqu i K a'aguy Poty Cac que Doble Carrete io Inhacorà i	Apinayà o II Tapirapà o / Karaà i Sao Dom ingos - M T Paquà § sam ba Brinco das M oà § as Muratuba do Parà i Bako Tapaà 's/Arapins Bako R io Negro II Chiquitano de Baia Grande Panam bi Am am ba peguà i Dourados-Am am ba peguà i Iguatem peguà i Brihantepeguà i Brihantepeguà i R io Pequeno Arandu-M rim Cerco Grande Karuguà i Sam baqu i Ka'aguy P oty Cac ique Dobe Carrete io Inhacorà i	Indigenous Area Indigenous Area
Taprapā ○ / Kara Ři Sao Dom ingos - M T Paqu à § am ba B rinco das M oà § as M uratuba do Parà i B a ko Tapa à 's / Arapuns B ako R o Negro II Ch qui tano de B a a G rande P anam bi Am am ba pegu à i B rihantepegu à i B rihantepegu à i B rihantepegu à i B rihantepegu à i A andà ○ vapegu à i R o Pequeno A randu-M rim Cerco G rande K arugu à i Sam baqu i K a'aguy P oty C ac que D oble Carrete iro Inhacorà i Uaà § a	Apinayà o II Tapirapà o / KaraÃi Sao Dom ingos - M T Paquà § sam ba Brinco das Moà § as Muratuba do ParÃi Bako Tapaà 's/Arapuns Bako R o Negro II Chipu tano de Baia Grande Panam bi Am am ba peguà i Dourados-Am am ba peguà i Iguatem peguà i Brihantepeguà i A åndà o vapeguà i R o Pequeno Arandu-M rim Cerco Grande Karuguà i Sam baqu i Ka'aguy Poty Cacirue Dobb Carrete rio Inhacorà i Uaà § a	Indigenous A rea Indigenous A rea
Taprapā ○ / Kara Ři Sao Dom ingos - M T Paqu à § am ba B rico das M oĀ § as M uratuba do Parà i B a ko Tapa à 's / Arapuns B ako R io Negro II Chiquitano de Baia Grande Panam bi Am am ba peguà i Dourados - Am am baipeguà i B rihantepeguà i B rihantepeguà i Ā andà ○ vapeguà i Ā b Pequeno A randu - M rim Cerco Grande K aruguà i S am baqu i K a'aguy Poty Cac que Doble Carrete io Inhacorà i	Apinayà o II Tapirapà o / Karaà i Sao Dom ingos - M T Paquà § sam ba Brinco das M oà § as Muratuba do Parà i Bako Tapaà 's/Arapins Bako R io Negro II Chiquitano de Baia Grande Panam bi Am am ba peguà i Dourados-Am am ba peguà i Iguatem peguà i Brihantepeguà i Brihantepeguà i R io Pequeno Arandu-M rim Cerco Grande Karuguà i Sam baqu i Ka'aguy P oty Cac ique Dobe Carrete io Inhacorà i	Indigenous Area Indigenous Area
Taprapā ○ / Kara Ři Sao Dom ingos - M T Paqu à § am ba B rinco das M oĀ § as M uratuba do Parà i B ako Tapa à S / Arapuns B ako R to Negro II Chiputano de B aia G rande Panam bi Am am ba peguà i Dourados-Am am ba peguà i B rihantepeguà i Ā andà ○ vapeguà i R to Pequeno A randu-M rim Cerco G rande K aruguà i Sam baqui K aruguà i Sam baqui K aruguà i Carrete io Inhacorà i Uaà § a W aw i	Apinayà o II Tapirayà o / Karaà i Sao Dom ingos - MT Paquàs mba Brinco das Moà sas Muratuba do Parà i Ba ko Tapaà s/A rapins Ba ko Tapaà s/A rapins Ba ko R b Negro II Ch qui tano de Ba a Grande Panam bi Am am bapeguà i Dourados-Am am bapeguà i Iguatem peguà i Brihantepeguà i Ä andà o vapeguà i R b Pequeno Arandu-M rim Cerco Grande Karuguà i Sam baqu i Ka aguy Poty Cac que Dobb Carrete ro Inhacorà i Uaà Sa Waw i	Indigenous Area Indigenous Area
Taprapã ○ / Kara Ři Sao Dom ingos - M T Paqu à § am ba B rico das M oà § as M uratuba do Parà i B ako Tapa à 's / Arapuns B ako R io Negro II Chiquitano de Baia G rande Panam bi Am am ba peguà i Bourados - Ām am ba peguà i Buatem peguà i Brihantepeguà i Ä ándà ○ vapeguà i R io Pequeno A randu - M rim Cerco G rande Karuguà i Sam baqui Ka aguy Poty Cac que Doble Carrete iro Inhacorà i Uaà § a Waw i Kaxuyana	ApinayÃ∘ II TapirapÃ∘ / KaraÃi Sao Dom ingos - MT Paquà § sam ba Brinco das Moà § as Muratuba do ParÃi Bako Tapaà 's/Arapins Bako R b Negro II Chiquitano de Baia Grande Panam bi Am am ba peguÃi Dourados-Ām am ba peguÃi Iguatem peguÃi BrihantepeguÃi Ā andà ∘ vapeguÃi R b Pequeno Arandu-M irim Cerco Grande KaruguÃi Sam baqui Ka'aguy Poty Cac que Dobb Carrete iro InhacorÃi Uaà § a Wawi Kaxuyana	Indigenous Area Indigenous Area
Taprapā ○ / Kara Ři Sao Dom ingos - M T Paqu à § am ba Brinco das Moà § as Muratuba do Parà i Ba ko Tapa à is / Arapuns Ba ko R io Negro II Chipu itano de Ba ia Grande Panam bi Am am ba peguà i Dourados - Am am ba peguà i Iguatem ibeguà i Brihantepeguà i Ā andà ○ vapeguà i Ā bequeno Arandu-M rim Cerco Grande Karuguà i Sam baqui Ka 'aguy Poty Cac que Doble Carrete io Inhacorà i Uaà § a Wawi Kaxuyuna Escrivao	Apinayà o II Tapirapà o / Karaà i Sao Dom ingos - M T Paquà § sam ba Brinco das M oà § as Muratuba do Parà i Bako Tapaà 's/Arapuns Bako R o Negro II Chiquitano de Baia Grande Panam bi Am am bajeguà i Dourados-Am am bajeguà i Iguatem jeguà i Brihantepeguà i Brihantepeguà i R o Pequeno Arandu-M rim Cerco Grande Karuguà i Sam baqu i Ka'aguy Poty Cac que Dobe Carrete io Inhacorà i Uaà § a W aw i Kaxuyana Escrivao	Indigenous Area Indigenous Area
Taprapā ○ / Kara Ři Sao Dom ingos - M T Paqu à § am ba B rinco das M oà § as M uratuba do Parà i B a ko Tapa à 's / Arapuns B ako R o Negro II Ch qui tano de B a a G rande P anam bi Am am ba pegu à i B rihantepegu à i B rihantepegu à i B rihantepegu à i B rihantepegu à i R o Pequeno A rando - M rim Cerco G rande K arugu à i S am baqu i K a'aguy Poty C ac que Doble C arrete iro Inhacorà i Uaà § a W aw i K axuyana Escrivao P ontaldos Apakà i	Apinayà o II Tapirapà o / KaraÃi Sao Dom ingos - M T Paquà § sam ba Brinco das Moà § as Muratuba do ParÃi Bako Tapaà 's/Arapuns Bako R o Negro II Chipu tano de Baia Grande Panam bi Am am ba peguà i Dourados-Am am ba peguà i Iguatem peguà i Brihantepeguà i Ā andà o vapeguà i R o Pequeno Arandu-M rim Cerco Grande Karuguà i Sam baqu i Ka'aguy Poty Cac ine te io Inhacorà i Uaà § a Wawi Kaxuyana Escrivao Pontaldos Apikà i	Indigenous Area Indigenous Area

Table A5 List of Protected Area in Brazil (continued, 25/25)

Tekoha M arangatu M orro do 0 sso	Tekoha M arangatu M orro do 0 sso	Indigenous A rea Indigenous A rea
M ato Caste hano	M ato C aste hano	Indigenous A rea
Chà °g'gu	Chà ªg'gu	Indigenous A rea
Reta/Tapera	Reta/Tapera	Indigenous A rea
Itaporanga	Itaporanga	Indigenous A rea
A rar bà i	A rar bà i	Indigenous A rea
Kangang de Irã ii	Kaingang de Irãii	Indigenous A rea
Lige iro	Lige iro	Indigenous A rea
M b iguaà § u	Mbiguaà §u	Indigenous A rea
Xacriabà i	X acriabà i	Indigenous A rea
Xakrabã iRanchara	X akrabã i Rancharia	Indigenous A rea
Guaran i Araponga	Guaran i A raponga	Indigenous A rea
Boa Vista SertA £o do		
Prom irim	BoaVistaSertã£o do Promirim	Indigenous A rea
Lago Grande	Lago Grande	Indigenous A rea
Guaran iBarao de		
Antonina	Guaran i Barao de Anton na	Indigenous A rea
Tunayana	Tunayana	Indigenous A rea
Ponta da Form iga	Ponta da Fom iga	Indigenous A rea
Morro do Coco	Morro do Coco	Indigenous A rea
Itapua	Itapua	Indigenous A rea
Passo Grande do Rio		
Forquiha	Passo Grande do R io Forqu iha	Indigenous A rea
Tanaru (InterdiA § ao)	Tanaru (Interdà § ao)	Indigenous A rea
Mundo	Munda Vanda (Cashas irisha	In discussion A sec
Verde/Cachoeirnha	Mundo Verde/Cachoeirinha Igarapã⊕ Taboca do Alto Tarauacãi	Indigenous Area Indigenous Area
Im bir ba — A rea doada A ragua 🖟 °/Terra R oxa	Imbirba - Area doada Aragua à °/Terra Roxa	A cquired Indigenous Airea Indigenous Airea
Tekoha Pora	Tekoha Pora	Indigenous Area
Trocarã i- Doaã § ao	Trocarã j- Doaã § ao	Dom nal Indigenous Area
Kara A i Santana do	TIOCAIN I- DOAN & 40	Dom Harringenous Area
A ragua ia	Kara à jSantana do Aragua ia	Indigenous A rea
Potiguara	Potiguara	Indigenous Area
Com bo bs	Combobs	Indigenous A rea
Tupiniquim	Tupin igu im	Indigenous Area
Lago do Corre b	Lago do Corre io	Indigenous A rea
Xukuru de Cimbres	Xukuru de C m bres	A cquired Indigenous A rea
Ham Yå'xux	Ham Yå'xux	A cquired Indigenous A rea
Canoana	Canoana	Indigenous Area
Wahuri	W ahuri	Indigenous A rea
Trem em bā© de Sao Josā		_
© e Buriti	Trem em bã⊚ de Sao Josã⊚ e Buriti	Indigenous A rea
Petim / A rasaty	Petim / A rasaty	Indigenous A rea
Arrob do Conde	Arro b do Conde	Indigenous A rea
Passo Grande	Passo Grande	Indigenous A rea
R b Negro O caia	R io Negro O caia	Indigenous A rea
PankarA ida Serra do		
A rapuà i	Pankarà ida Serra do Arapuà i	Indigenous A rea
AnacÃ≎	Anacî	Indigenous A rea
Tekoa P indoty	Tekoa P indoty	Indigenous A rea
Tekoa Guaviraty	Tekoa Guaviraty	Indigenous A rea
Tekoa Guaviraty	Tekoa Guaviraty	Indigenous A rea
Tekoa Itapua	Tekoa Itapua	Indigenous A rea
Tekoa Je jyty	Tekoa Je jyty	Indigenous Area
Tekoa U ru ity	Tekoa Uru ity	Indigenous A rea
Tekoa Jakoaty Tekoa Amba Pora	Tekoa Jakoaty	Indigenous A rea
	Tekoa Amba Pora	Indigenous A rea
Tekoa Peguaoty Iha do Cardoso	Tekoa Peguaoty Iha do Cardoso	Indigenous A rea Indigenous A rea
R b Branquinho	R io Branquinho	Indigenous Area
Fazenda Remanso	R D B randu nno Fazenda Rem anso	A cquired Indigenous Airea
Fazenda SÃ-tb	Fazenda SÃ-tb	A cquired Indigenous Airea
Terena G leba Iriri	Terena G eba Irri	Indigenous Reserve
Une iuxi	Une uxi	Indigenous Area
TuxÃide Ina¸Ãi	Tuxà ide Ina,à i	A cquired Indigenous Airea
Piripkura (Interdia § ao)	Piripkura (Interdia § ao)	Indigenous Area
Maracaxi	M aracaxi	Indigenous A rea
Kawah iva do R io Pardo	Kawah iya do R ip Pardo	Indigenous A rea
K renrehé	Krenrehé	Indigenous Reserve
Abro hos Marine National		
Park	Abro hos Marine National Park	Ram sar Site, Wetland of International Importance
Turão/Mariguita	Turã © /M aripu ita	Indigenous Area
	•	

Appendix 6 IBA in Brazil

Table A6 List of IBA in Brazil (1/4)

Site Name	Area (ha)	Criteria
Abunã	79289	
A Ito Cariri	22000	
A Ito Juruá		A 1, A 2, A 3
A Ito R io Juruena	910054	
A tto Sucunduri	4629900	
Área de Proteção Ambiental de Guaratuba Area de Relevante Interesse Ecológico Projeto Dinâmica Biológica de	130000	A 1, A 2, A 3
Fragm entos F bresta is e Entomo	46207	A 2, A 3
A rqu pé lago de A nav ilhanas		A 1, A 2
A rquipé lago de Fernando de Noronha		A 1, A 2, A 3, A 4 i, A 4 ii
A rquipé lago dos A lcatrazes		A 4 i
A to I das Rocas		A 4 i, A 4 ii, A 4 iii A 1 . A 2
Aurora do Tocantins / Taguatinga Baía da Babitonga		A 1, A 2
Baixada Maranhense		A 4 i, A 4 iii
Baixo Curso do R io Nhundiaguara		A 1, A 2
Baixo R io das V e has		A1. A2
Baixo R io Javari		A 1. A 2. A 3
Baixo R io X ingu	622266	A 1
Baixo-Sul	50000	A1, A2
Bandeira / Macarani		A 1, A 2
Banhado do Maçarico e Cordões Litorâneos Adjacentes		A 1, A 2, A 3
Banhado do Taim		A 1, A 3, A 4 i, A 4 iii
Banhado dos Pachecos		A 1, A 2
Banhado São Donato		A 1, A 2, A 3
Barragem de Boa Esperança	280547	
Bertioga	6000	
Boa Nova / Serra da Ouricana Botum irim		A 1, A 2, A 3 A 1, A 2
Bre p de Taquaritinga	4000	,
Bre p dos Cavalos		A 1. A 2
Caceres		A1. A3
Cafundó e Banana I do Norte	2000	
Campinas e Várzeas do Rio Branco	3859627	A 1, A 2, A 3
Campo do Alto Marmelos	451017	
Campos da Região de Bagé		A1, A2, A3
Cam pos de Água Doce e Palmas	110000	
Campos de Cima da Serra		A 1, A 2
Campos de Humaitá-Lábrea	2724632	
Campos do Encanto	850000	A 1, A 2, A 3
C am pos do P lana Ito das A raucárias C am pos G era is do Paraná		A 1, A 2, A 3
Cân jon do Guarte lá	20000	
Caratinga	957	
Caxiuanã / Porte l	3422612	
Cerrados ao Sul de Brasília		A 1, A 2
Cerrados do Nordeste de Tocantins	1296041	
Chapada do Araripe		A 1, A 2, A 3
Chapada do Catuni	500	
Complexo Gurjaú		A 1, A 2
Complexo Pedra Azul / Forno Grande		A 1, A 2, A 3
Corredor do Iguaçu	6000	
Cristalino / Serra do Cachimbo	1123562 5000	
Curaçá De Ita do Pamaíba		A 2, A 4 i
Encostas da Região de Dom ingos Martins	24000	
Engenho Coim bra (Usina Serra Grande)		A 1. A 2
Estação Ecológica de Águas Emendadas	10547	
Estação Ecológica de Juré ia-Itatins		A 1, A 2, A 3
Estação Ecológica de Uruçu í-Una	135000	
Estação Ecológica do Seridó		A1, A2
Estação Ecológica Serra das Araras		A1, A3
Estação V eracruz	7214	
Estuário da Laguna dos Patos		A 1, A 3, A 4 i
Fazenda Pindobas IV e Arredores	4000	A 1, A 2, A 3

Source: Bird Life,

http://www.birdlife.org/datazone/sitesearchresults.php?cty=30&fam=0&gen=0

Table A6 List of IBA in Brazil (continued, 2/4)

Fazenda Santana	5000 A 1, A 2
Form oso do A ragua ia	169672 A 1, A 4 i, A 4 iii
Foz dos R ios Pardo e Jequitinhonha	50000 A 1
G eneral C ame iro	100000 A 1, A 2
Goiabal / Piratuba	968625 A 2, A 4 i
G uada lupe	15000 A 1, A 3
Guaraqueçaba / Jacup iranga / Canané ia	500000 A 1, A 2, A 3
Gurupi	1392974 A 1
b iquera / Ruy B arbosa Igarassu	53000 A 1 7200 A 1
Iha de Marajó	3910144 A 1, A 2
Iha G rande	19000 A 1
Ihabe la State Park (Parque Estadual de Ihabe la BA)	27025 A 1
Ihas Comprida e Cananéia	24000 A 1, A 4 i
Ihas do Litoral Sul do Espírito Santo	100 A 4 i
Ihas dos Currais	10 A 4 ii
Ihéus / Itabuna	50000 A 1, A 2
Interflúv io dos R ios das Mortes e A ragua ia	1450560 A 1, A 2
Interflúv io dos R ios Tocantins e Paranã	472744 A 1
Itanagra Itanhaém / M ongaguá	3000 A 1, A 2, A 3 8000 A 1
Itarana Itarana	5000 A 1. A 2
Itirapina	2300 A 1
Jaguaquara	5000 A 1, A 2
Jaguaria íva	5000 A 1
Ja lapão	1187017 A 1, A 3
Jam anx in / A Itam ira	1541628 A 1
Jamari	792165 A 1
Januária	21000 A 1, A 2
Jequié	39000 A 1, A 2
Ji-Paraná / Roosevelt Laran ja I / Miracem a	1112493 A 1, A 2, A 3 10000 A 1, A 2
Lavrados de Rora in a	1477273 A 1. A 2
Lizarda	349193 A 1
Maciço do Urucum e Adjacências	118718 A 1, A 3
M ac iço F bresta I de Paranapiacaba	140000 A 1, A 2, A 3
Maciços da Tijuca e Pedra Branca	15700 A 1
M am anguape	20000 A 1, A 2
M am irauá	1124000 A 1, A 2
M angue Seco	1000 A 4 i
M ata da Campina e Fragmentos Adjacentes	10000 A 1 10000 A 1
M ata do Crasto e Restingas de Itaporanga e Estância M ata do Estado	600 A 1. A 2
M ata do Pau-Ferro	600 A 1, A 2
M ata Estre la	2000 A 1
M atas C iliares do R io do Coco e A fluentes	138721 A 1, A 2, A 3
Matas de Conde e Baixios	3000 A 1
Médio Rio Camaquã	450000 A 1, A 2
M ocam b inho	20000 A 1, A 2, A 3
M onum ento Natural das Árvores Fossilizadas e Adjacências	152140 A 1, A 2
Murici	7000 A 1, A 2, A 3
Nascentes do R io Pamaíba N hum irim	730000 A 1 43887 A 1 . A 3
N num irm N ovo Progresso	2621296 A 1, A 2, A 3
0 uro Preto / Mariana	50000 A 1, A 2
Paine I / Urupem a	135000 A 1
Pantana I de Nabileque	468274 A 1, A 3
Parque Estadua I da Serra do Brigadeiro	13210 A 1, A 3
Parque Estadua I da Serra do Mar (entre Caraguatatuba e Picinguaba)	85000 A 1, A 2, A 3
Parque Estadual da Serra do Mar (entre Pedro de Toledo e Cubatão)	140000 A 1
Parque Estadual da Serra do Mar (entre Santos e São Sebastião)	110000 A 1, A 2, A 3
Parque Estadual da Serra do Papaga io	22917 A 1, A 2
Parque Estadua I das Lauráceas e Entorno	40000 A 1
Parque Estadual do Cantão Parque Estadual do Desengano e Entorno	90017 A 1, A 2 22500 A 1, A 2
Parque Estadual do Desengano e Entorno Parque Estadual do M orro do Chapéu	6000 A 1, A 2
Parque Estadual do Pico do Itambé e Serra do Gavião	5000 A 1, A 2
Parque Estadual do R io Doce	36000 A 1
,	1

Source: Bird Life,

http://www.birdlife.org/datazone/sitesearchresults.php?cty=30&fam=0&gen=0

Table A6 List of IBA in Brazil (continued, 3/4)

Table At List of IDA in Brazii (contin	·
Parque Estadual do R io Guaran i	2235 A 1
Parque Estadual do R io Preto	10755 A 1
Parque Estadual do Turvo	17491 A 1
Parque Nacional da Amazônia	1161379 A 1, A 3
Parque Nacional da Chapada Diamantina	150000 A 1, A 2, A 3
Parque Nacional da Chapada dos Guim arães e Adjacências	66042 A 1
Parque Nacional da Chapada dos Veadeiros e Adjacências	395681 A 1, A 3
Parque Nacional da Lagoa do Peixe	34400 A 1, A 4 i, A 4 iii
Parque Nacional da Serra da Bodoquena e Entomo	326892 A 1, A 3
Parque Nacional da Serra da Capivara	100000 A 1, A 2, A 3
Parque Nacional da Serra das Confusões	502411 A 1, A 3
Parque Nacional da Serra do Divisor	840955 A 1, A 2, A 3
Parque Nacional das Em as	133064 A 1, A 3
Parque Nacional de Brasília	31895 A 1, A 2
Parque Nacional de Iha Grande	78875 A 1
Parque Nacional de Itatiaia	30000 A 1, A 2, A 3
Parque Nacional de Monte Pascoal	22500 A 1, A 2
Parque Nacional de São Joaquim	49300 A 1
Parque Nacional do Cabo Orange	410424 A 2
Parque Nacional do Caparaó	31853 A 1, A 2
Parque Nacional do Catin bau	62555 A 1, A 2, A 3
Parque Nacional do Descobrim ento	25000 A 1
Parque Nacional do Iguaçu	185000 A 1, A 3
Parque Nacional do Jaú	2377889 A 1, A 2, A 3
Parque Nacional do Pau Brasil / Trancoso	20000 A 1
Parque Nacional Montanhas do Tum ucum aque	3882120 A 1, A 3
Raso da Catarina	390000 A 1, A 2, A 3
R eentrânc ias M aranhenses / Paraenses	1134852 A 2, A 4 i, A 4 iii
Região de Blum enau	57374 A 1, A 3
Região de Pinheiro Machado	100000 A 1, A 2
Região dos Aparados da Serra	150000 A 1, A 2, A 3
Região Serrana do R io de Janeiro	55000 A 1
Reserva B io lógica da M ata Escura	51046 A 1
Reserva B io lógica de Duas Bocas	4100 A 1
Reserva B io lógica de Pedra Talhada	5000 A 1, A 2
Reserva B io lógica de Poço das Antas	5000 A 1 409585 A 1 . A 2
Reserva B io lógica do R io Trom betas Reserva B io lógica União	3126 A 1
Reserva Ecológica Maurício Dantas	1485 A 1
Reserva Particular do Patrimônio Natural SESC Pantanal e Entomo	506607 A 1
Restinga de Maçam baba e Iha de Cabo Frio	9000 A 1, A 2, A 3
R io A rro jado	100000 A 1
R io Capim	2141584 A 1
R io C laro	146773 A 1
R io Guaraguaçu	5000 A 1. A 2
R io M ucuri	5000 A 1, A 2
R ios Negro e Aquidauana	287852 A 1, A 3
Salto do Piraí	5000 A 1
Saltos das Andorinhas e de Dardanelos	740 A 4 ii
Santa Cruz Cabrália / Belmonte	10000 A 1
Santa Teresa	14000 A 1, A 2, A 3
Santo Amaro / Cachoeira	2000 A 1
São Francisco Xavier / Monte Verde	45000 A 1
São José da La je / Canhotinho	4000 A 1
São Pedro da Água Branca	112297 A 1, A 2
Savanas do Amapá	766643 A 1
Savanas do R io Cotingo	1499454 A 1. A 2
Sento Sé / Cam po Form oso	580000 A 1, A 2
Serra Bonita	4500 A 1. A 2
Serra da Bocaina / Paraty / Angra dos Reis	150000 A 1, A 2, A 3
Serra da Canastra	200000 A 1, A 2, A 3
Serra da Cantare ira	8000 A 1
Serra da Mantique ira	95000 A 1, A 2, A 3
Serra de Bonito	140000 A 1, A 2
Serra de biapaba	100000 A 1, A 2, A 3
Serra de Itabajana e Matas de Areja Branca	7966 A 1, A 2
	10000 A 1
Serra de Itam araju	

Source: Bird Life, http://www.birdlife.org/datazone/sitesearchresults.php?cty=30&fam=0&gen=0

Table A6 List of IBA in Brazil (continued, 4/4)

	00000 4 4 0 4 0
Serra do Baturité	32690 A 1, A 2, A 3
Serra do Caraça	10000 A 1, A 2
Serra do Cipó	50000 A 1, A 2, A 3
Serra do Marum bi	66000 A 1, A 2, A 3
Serra do Mascarenhas	3500 A 1, A 2
Serra do Tabuleiro State Park (Parque Estadual da Serra do Tabuleiro BA)	87405 A 1, A 3
Serra do Teimoso	1000 A 1
Serra do Tinguá	28000 A 1, A 2, A 3
Serra do Urubu	1000 A 1, A 2
Serra dos Carajás	1223610 A 1, A 3
Serra dos Ó rgãos	16000 A 1, A 2, A 3
Serra Negra (Floresta)	6000 A 1, A 2, A 3
Serras das Lontras e do Javi	3000 A 1, A 2, A 3
Serras de Maranguape e da Aratanha	4500 A 1, A 2
Sooretam a / Linhares	46000 A 1, A 2, A 3
Taboca is	7351066 A 1, A 2, A 3
Tapacurá	776 A 1
Tepuis de Roraima	248250 A 2, A 3
Tepuis do Amazonas	4429575 A 2, A 3
Terra Ronca	676190 A 1, A 2, A 3
T irecatinga / U tiariti	605359 A 1
Trindade e M artim V az	1500 A 1, A 4 i, A 4 ii
Una	12000 A 1, A 2, A 3
U rub ic i	20000 A 1
U s ina C achoe ira	6000 A 1
V a le do Guaporé	1664439 A 1, A 2
V a le do Peruaçu	60000 A 1, A 2, A 3
Vale do Rio Palmeiras	272225 A 1. A 2
Várzea do Canal São Gonçalo	70000 A 1, A 2, A 3
V árzeas da R egião M etropolitana de Curitiba	20000 A 1, A 2
Várzeas de Monte A legre	2664834 A 1, A 2
Várzeas do Curso Médio-Superior do Rio Iguaçu	1500 A 1
Várzeas do Médio Rio Amazonas	2875752 A 1. A 2
Várzeas em Tiùcas do Sul	20000 A 1
V itória da Conquista	10000 A 1. A 2. A 3

Source: Bird Life,

http://www.birdlife.org/datazone/sitesearchresults.php?cty=30&fam=0&gen=0

Appendix 7 CDM Projects in Brazil

List of CDM Project in Brazil (1/3) Table A7

Registered	Project title	Other Parties	Methodology*	Reductions**	
18/11/2004	Brazil NovaGerar Landfill Gas to Energy Project	Netherlands	A M 0003	670133	
24/11/2005	0 nyx Landfill Gas Recovery Project - Trém em bé, Brazil	Netherlands/France	AM 0011	70063	27
		Netherlands/UK and Northern			
25/12/2005	N 20 Em ission Reduction in Paulinia, SP, Brazil	Ire land / France	AM 0021	5961165	116
23/01/2006	Brazil M ARCA Landfill Gas to Energy Project	Japan/UK and Northern Ireland	AM 0003 ver. 3	231405	137
15/05/2006	Landfill Gas to Energy Project at Lara Landfill, M aua, B razil	Sw itzerland/Netherlands	AM 0003 ver. 3	751148	91
, ,	AWMS GHG M itigation Project BR05-B-07, Mato Grosso,	Switzerland/UK and Northern			
25/05/2006	Minas Gerais and Goias, Brazil.	Ire land	AM 0016 ver. 2	149915	337
, ,	AWMS GHG Mitigation Project BR05-B-02, Minas Gerais and	Switzerland/UK and Northern			
18/06/2006	Sao Paulo, Brazil	Ire land	AM 0016 ver. 2	152162	364
10/00/2000	Out Tuu N, DTuZII	Sw itzerland / UK and Northern	X III 0010 VOI. 2	102102	- 001
18/06/2006	AWMS GHG M itigation Project BR05-B-09, Brazil	Ire land	AM 0016 ver. 2	49388	365
16/00/2000	AWWS drid w legation Project BR05-B-09, Brazil		AWOOTO VEL. Z	49300	300
00 (07 (0000	AWAR OHO H 'S' I' B I' I BBOE B OO B I' B I'	Sw itzerland/ UK and Northern		10005	400
08/07/2006	AWMS GHG M itigation Project BR 05-B-06, Bahia, Brazil	Ire land	AM 0016 ver. 2	13835	409
	AWMS GHG M itigation Project BR 05-B-14, Espirito Santo,	Switzerland/UK and Northern			
09/07/2006	Minas Gerais and Sao Paulo, Brazil	Ire land	AM 0016 ver. 2	55493	420
	AWMS GHG Mitigation Project BR05-B-10, Minas Gerais,	Switzerland/UK and Northern			
09/07/2006	Goias, Mato Grosso, and Mato Grosso do Sul - Brazil	Ire land	AM 0016 ver. 2	90163	417
	AWMS GHG Mitigation Project BR05-B-15, Parana, Santa	Switzerland/UK and Northern			
09/07/2006	Catarina, and R io Grande do Sul, Brazil	Ire land	AM 0016 ver. 2	47586	421
,	AWMS GHG M itigation Project BR05-B-04, Parana, Santa	Switzerland/UK and Northern			
09/07/2006	Catarina, and R io Grande do Sul, Brazil	Ire land	AM 0016 ver. 2	90576	411
03/ 01/ 2000	AWMS GHG M itigation Project BR05-B-11, Mato Grosso.	Sw itzerland/ UK and Northern	A III 0010 VCI. Z	30070	711
00 /07 /0006		Ire land	AM 0016 ver. 2	67825	418
09/07/2006	M inas Gerais and Sao Paulo, Brazil		A M OOTO Ver. Z	0/823	418
	AWMS GHG M itigation Project BR05-B-13, Goias and M inas	Switzerland/UK and Northern			
09/07/2006	G era is, B raz il	Ire land	AM 0016 ver. 2	124218	419
	AWMS GHG M itigation Project BR05-B-05, M inas Gerais and				
09/07/2006	Sao Paulo, Brazil	Sw itzerland	AM 0016 ver. 2	75458	412
	AWMS GHG M itigation Project BR05-B-16, Bahia, Goias, Mato	Switzerland/UK and Northern			
15/07/2006	Grosso, Minas Gerais, Rio de Janeiro and Sao Paulo, Brazil	Ire land	AM 0016 ver. 2	87922	422
	AWMS GHG Mitigation Project BR05-B-01, Minas Gerais.	Switzerland/UK and Northern			
29/08/2006	Brazil	Ire land	AM 0016 ver. 2	55771	335
	AWMS GHG M itigation Project BR05-B-08, Parana and R io	Switzerland/UK and Northern			
10/09/2006	Grande do Sul, Brazil	Ire land	AM 0016 ver. 3	17531	466
10/ 03/ 2000	AWMS GHG M itigation Project BR05-B-12, Mato Grosso.	Sw itzerland / UK and Northern	A MI OOTO VCI. O	17001	700
11/09/2006	M ato Grosso do Sul, M inas Gerais, and Sao Paulo, Brazil	Ire land	AM 0016 ver. 3	76052	472
11/09/2000		ire and	AWOOTO VELS	70032	4/2
00 (00 (0000	ECO NVEST - MASTER Agropecuaria - GHG capture and			20.400	400
29/09/2006	combustion from swine farms in Southern Brazil		A M 0006	69469	469
	AWMS GHG Mitigation Project BR 05-B-17, Espirito Santo,	Switzerland/UK and Northern			
30/09/2006	Mato Grosso, Mato Grosso do Sul, and Minas Gerais, Brazil	Ire land	AM 0016 ver. 3	43297	467
		Switzerland/UK and Northem			
16/10/2006	AWMS GHG Mitigation Project BR05-B-03, Brazil	Ire land	AM 0016 ver. 2	182079	336
	Repowering Small Hydro Plants (SHP) in the State of Sao				
15/12/2006	Pau b, B razil	UK and Northern Ireland	A C M 0002 ver. 6	22406	489
	Petrobras Wind Power Project for Oil Pumping at Macau.				
09/03/2007	Brazil	1	AMS-IA. ver. 8	1277	843
00,00,2001	N 20 Em ission Reduction in nitric acid plant Paulinia, SP.		AM 0028 ver. 4/	12//	040
02/06/2007	Brazil	Sw itzerland/ France	A M 0028 ver. 4/ A M 0034 ver. 2	80109	1011
02/06/2007			A W 0034 Ver. Z	80109	1011
	M itigation of M ethane Em issions in the Charcoal Production	Finland/France/Sweden/	l		
09/08/2007	of P lantar, B razil	Germany/UK and Northern	AM 0041	16098	1051

Note:

* AM - Large scale, ACM - Consolidated Methodologies,
AMS - Small scale

**Estim ated em ission reductions in metric tonnes of CO2 equivalent per annum (as stated by the project participants)

Source UNFCCC, 2013

Table A7 List of CDM Project in Brazil (continued, 2/3)

	GEEA-SBS Biomass Treatment Project in Alegrete, Rio	<u> </u>	AMS-IIIE. ver. 10/		
14/09/2007	G rande do Sul, B razil	Japan	AMS-ID. ver. 10/	19223	1092
, ,	AWMS Methane Recovery Project BR06-S-29, Sao Paulo,	Sw itzerland/UK and Northern			
01/02/2008	B razil	Ire land	AMS-IIID. ver. 11	22819	1164
		Switzerland/UK and Northern			
01/02/2008	AWMS Methane Recovery Project BR 06-S-27, Goias, Brazil	Ire land	AMS-IIID. ver. 11	11001	1162
		Switzerland/UK and Northern			
01/02/2008	AWMS Methane Recovery Project BR06-S-19, Goias, Brazil	Ire land	AMS-IIID. ver. 11	19989	1154
	AWMS Methane Recovery Project BR06-S-20, Minas Gerais,	Switzerland/UK and Northern			
01/02/2008	B razil	Ire land	AMS-IIID. ver. 11	10433	1157
01 /00 /0000	AWMC Matterna Danasana Danisat DDOC C 21 Caisa Danail	Sw itzerland/ UK and Northern	AMC IIID 11	17010	1150
01/02/2008	AWMS Methane Recovery Project BR06-S-21, Goias, Brazil	Ire land	AMS-IIID. ver. 11	17918	1158
01/02/2008	AWMS Methane Recovery Project BR06-S-25, Minas Gerais, Brazil	Switzerland/UK and Northern Ireland	AMS-IIID. ver. 11	28222	1160
01/02/2008	AWMS Methane Recovery Project BR06-S-28, Santa Catarina,	Sw itzerland/ UK and Northern	AW 3-IIID. Ver. II	20222	1100
01/02/2008	B razil	Ire land	AMS-IIID. ver. 11	4228	1163
01/ 02/ 2000	AWMS Methane Recovery Project BR06-S-24, Mato Grosso	Sw itzerland/ UK and Northern		1220	1100
01/02/2008	and M ato G rosso do Sul, B razil	Ire land	AMS-IIID. ver. 11	21280	1159
,	AWMS Methane Recovery Project BR06-S-26, Minas Gerais,	Switzerland/UK and Northern			
01/02/2008	B razil	Ire land	AMS-IIID. ver. 11	12411	1161
	AWMS Methane Recovery Project BR06-S-23, Mato Grosso	Switzerland/UK and Northern			
04/02/2008	and Goias, Brazil	Ire land	AMS-IIID. ver. 11	17104	1234
	AWMS Methane Recovery Project BR06-S-30, Mato Grosso	Switzerland/UK and Northern			
17/03/2008	and Mato Grosso do Sul, Brazil	Ire land	AMS-IIID. ver. 11	10342	1529
,_ ,_ ,	AWMS Methane Recovery Project BR06-S-22, Minas Gerais,	Switzerland/UK and Northern			
07/04/2008	B razil	Ire land	AMS-IIID. ver. 11	17273	1528
10 /04 /0000	AWMS Methane Recovery Project BR06-S-33, Minas Gerais	Sw itzerland/ UK and Northern	A H O TIID 11	0570	1500
10/04/2008	and Sao Paulo, Brazil	Ire land	AMS-IIID. ver. 11	9576	1532
10/04/2008	AWMS Methane Recovery Project BR 07-S-34, Bahia, Espirito Santo, Minas Gerais, and Sao Paulo, Brazil	Switzerland/UK and Northern Ireland	AMS-IIID. ver. 11	8585	1534
10/04/2006	AWMS Methane Recovery Project BR07-S-31, Mato Grosso	Switzerland/UK and Northern	AW 3-IIID. Ver. 11	0000	1004
05/06/2008	do Sul, Parana, R io Grande do Sul, and Santa Catarina, Brazil	Ire land	AMS-IIID. ver. 11	16398	1531
00/ 00/ 2000	AWMS Methane Recovery Project BR06-S-18. Parana, Rip	Sw itzerland/ UK and Northern	AMO MD. VOI. II	10000	1001
05/06/2008	Grande do Sul, and Santa Catarina, Brazil	Ire land	AMS-IIID. ver. 11	32228	1521
,,	Reforestation as Renewable Source of Wood Supplies for	Luxem bourg/France/Ireland/			
21/07/2010	Industria I U se in Brazil	Sw itzerland/ Japan/ Spain	AR-AM0005	75783	2569
	BRASCARBON Methane Recovery Project BCA-BRA-05,				
21/08/2010	B razil	Portugal	AMS-IIID. ver. 14	52511	3455
	BRASCARBON Methane Recovery Project BCA-BRA-07,				
21/08/2010	B razil	Portugal	AMS-IIID. ver. 14	45017	3456
	BRASCARBON Methane Recovery Project BCA-BRA-08,				
08/11/2010	B razil.	Portugal	AMS-IIID. ver. 14	46678	3222
	BRASCARBON Methane Recovery Project BCA-BRA-02,		l l		
08/11/2010	B razil	Portugal	AMS-IIID. ver. 14	45146	3220
00 (40 (60 (6	Em issions in the Charcoal Production of Grupo Queiroz Galvo,				
23/12/2010	M aranho, B razil		A M 0041	226845	4262

Note:

* AM - Large scale, ACM - Consolidated Methodologies, AMS - Small scale

**Estim ated em ission reductions in metric tonnes of CO2 equivalent per annum (as stated by the project participants)

Source UNFCCC, 2013

Table A7 List of CDM Project in Brazil (continued, 3/3)

04/01/2011	Guanhaes Energia CDM Project, Minas Gerais, Brazil (JUN 1123)		ACM 0002 ver. 10	62949	3898
07/01/2011	AES Tiete Afforestation/Reforestation Project in the State of Sao Paulo, Brazil	Canada/ Italy/ Luxem bourg/ France/ Japan/ Spain	AR-AM 0010 ver. 4	157635	3887
Rejected	R eductions from Sw ine M anure M anagem ent System , D iam antino, M T , B razil		ACM 0010 ver. 5/ AM S-ID. ver. 15	72526	4293
15/06/2011	Malagone SHP CDM Project, Minas Gerais, Brazil (JUN 1122)		ACM 0002 ver. 11	27552	4670
06/01/2012	wastewater treatm ent in Embaré — Lagoa da Prata, Minas Gerais, Brazil		AMS-IIIH. ver. 16/ AMS-IF.	7271	4212
Rejected	Reducing Agent in Pig Iron Mill of Arce brMittal Juiz de Fora, Brazil		A M 0082	460474	8238
30/11/2012	SHP ITAGUACU CDM PROJECT (JUN 1146), BRAZL		AMS-ID. ver. 17	14818	8500
14/12/2012	147 MW wind farm Acarau [Brazil		ACM 0002 ver. 13	209452	8493
22/12/2012	39 MW Wind farm Acarau II, Brazil		ACM 0002 ver. 13	54961	8122
27/12/2012	25.5 MW W ind farm Aracati, Brazil		A C M 0002 ver. 13	31140	9110
28/12/2012	Use of Charcoal from Renewable Biomass Plantations as Reducing Agent in Pig Iron Mill in Brazil	N etherlands	A M 0082	329068	7577
15/03/2013	the Charcoal Production of V&M F brestal, M inas Gerais, Brazil		A M 0041	204471	8609

Note:

* AM - Large scale, ACM - Consolidated Methodologies,
AMS - Small scale

**Estimated emission reductions in metric tonnes of CO2

equivalent per annum (as stated by the project participants)

Source UNFCCC, 2013

