

## **Bats from Brazil**

182
species
in Brazil

25 %
of mammals in Brazil are bats

Bat families in



1421

bat species in the world

Distributed across the globe, except at the poles





7 GENERA, 17 SPECIES

**FURIPTERIDAE** 

1 GENUS, 1 SPECIES

MOLOSSIDAE

8 GENERA, 31 SPECIES

MORMOOPIDAE

1 GENUS, 4 SPECIES

NATALIDAE

1 GENUS, 1 SPECIES

**NOCTILIONIDAE** 

1 GENUS, 4 SPECIES

**PHYLLOSTOMIDAE** 

44 GENERA, 93 SPECIES

THYROPTERIDAE

1 GENUS, 5 SPECIES



**5 GENERA, 28 SPECIES** 



Brazil



Make sounds

to locate yourself in space and hunt The bat menu includes various items, such as: seeds, fruits, leaves, pollen, nectar, flowers, insects, fish, blood and other animals















#### **Bats from Brazil**







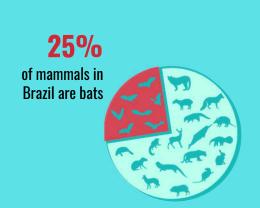
















#### **Bats from Brazil**

The Brazilian list of bats is composed of **182** species, belonging to **69** genera and **nine** families





















## Bats are unique and amazing





1421

poles

bat species in

occur across the

globe, except at the

the world

















reports of bats that lived at least 41 years in the wild





great morphological variation



15 cm



Make sounds to

locate and hunt

in complete

darkness





#### **Echolocation**

**The Sixth Sense** 



Bats **are not blind**. However, navigate and hunt in the dark does not seem easy! So, they perfected the use of sound













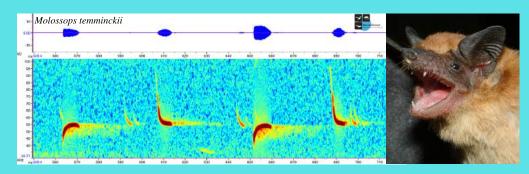




Like a sonar, bats emit high-frequency sounds (humans cannot hear), which upon encountering an obstacle or prey, return to the bat in the form of echos

As in the case of birds, it is possible **to identify** some species of bats by the sounds they emit







#### **Bioacoustics**

The science of sound

**Bioacoustics** is a **science** that studies the importance of sounds and **communication** in the behavior of living beings





















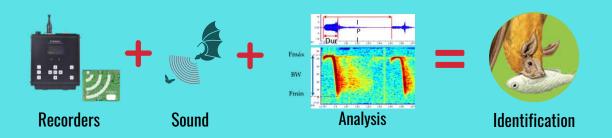








Through sound recording, which is a **non-invasive method**, we can register and subsequently identify the species that emitted the sounds



With this, we can study several aspects of the ecology of organisms, helping in the conservation of these species



# Most varied diet among mammals















Bats perform a variety of **ecosystem services**.
They act as: pollinators, seed dispersers, insect predators (including agricultural pests), nutrient suppliers in caves, source of new coagulants, among other functions.





seeds



flowers





ectar and Other vertebrates



#### **Diet**

Pollen, nectar and flowers









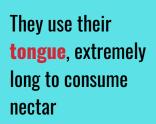
















The pollen grains end up sticking to your fur. They can disperse pollen over long distances



They are the main pollinators of blue-agave, the main ingredient in the production of **Tequila** 











































2/3 of all bat species are insectivorous

















Provide pest control service

for farmers, making it possible

to reduce the use of pesticides,

saving billions

Main natural controllers of insects



In Chile, wine producers save up to **7%** of the annual production value due to the **help of bats** 









In all world, **only 3 feed** on the **blood** of birds and mammals. They occur in the Americas























Diphylla ecaudata



Diaemus yongi

The spittle of these animals has an enzyme, draculin, which inhibits blood clotting



Due to the anticoagulant and anesthetic properties of their splittle, they are models in the development of drugs to treat vascular diseases



#### **Diet** Other vertebrates











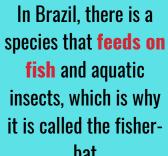




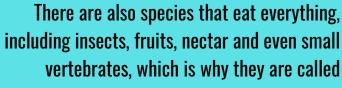
Some species feed on vertebrates. such amphibians, reptiles, rodents and even other bats (rare species)



Chrotopterus auritus

















## Pampa biome

Second most devastated biome, with only **3.3%** of its area protected by conservation units



**45%** Original vegetation



















14% (/Forest



**42%** Agriculture



**9%** Water



**33%** Grassland



1% Urban area





## **Biodiversity**

272

Pampa Biome

















Fish



63











3530

**Plants** 

**Reptiles** 97





## **Bats of the Pampa**



















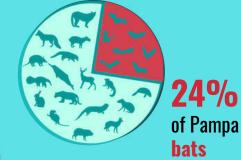
**6 GENERA, 12 SPECIES** 



1 GENUS, 1 SPECIES



**8 GENERA, 10 SPECIES** 



VESPERTILIONIDAE

of Pampa mammals are bats









### **MOLOSSIDAE**

LC

Status Least Concern



**Weight** 11 - 20g



**Length** 8.9 - 12.9cm



Diet Insectivorous

Habitat

Open areas

They can use foliage, bridges or building ceilings as shelters. They form small colonies and there are reports of fidelity to the shelters

















Eumops patagonicus

**MOLOSSIDAE** 



Status Least Concern



Weight 7 - 16g



لاسلسلسلسلال

**Length 6.4 - 7.2cm** 



Diet Insectivorous

Endemic to Latin America, found in both forests and urban areas, it may occupy house ceilings

Habitat
Open areas















Molossops temminckii
MOLOSSIDAE



Status Least Concern



Weight 5 - 10g



ահահահահաև

Length 5 - 5.4cm



Diet Insectivorous

Endemic to South America, it shelters in hollows of trees, poles and ceilings of buildings. Individuals form groups rarely larger than three individuals

Habitat Forest edge











AMAMIN'S CAMINIONS





Molossus molossus

**MOLOSSIDAE** 



Status Least Concern



**Weight** 12 - 18g



ուհահահահաև

Length 5.8 - 7cm



Diet Insectivorous

They take shelter in hollows of trees, caves, under palm leaves, ceilings, tunnels and under bridges. Individuals form large colonies



















**MOLOSSIDAE** 



Status Least Concern



**Weight** 21 - 43g



**Length** 7.1 - 9.8cm



Diet Insectivorous

Commonly found in urban centers, it shelters in hollows of trees, buildings and cracks. Individuals can form large colonies

















Nyctinomops laticaudatus

**MOLOSSIDAE** 



Status Least Concern



Weight 9 - 16g



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Length 10 - 11cm



Diet Insectivorous

It shelters under leaves, hollows of trees, cracks in rocks, caves and buildings. It can form groups of 150 to a thousand individuals

















Nyctinomops macrotis

**MOLOSSIDAE** 



Status Least Concern



Weight 22 - 30g



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**Length** 7.5 - 8.4cm



Diet Insectivorous

It takes shelter in hollows of trees, caves, cracks in rocks and buildings. Form colonies that can reach up to 150 individuals

















**Promops centralis** 

**MOLOSSIDAE** 



Status Least Concern



**Weight** 18 - 25g



Length 5.6 - 8.8cm



Diet Insectivorous

It is usually solitary and shelters in palm leaves, hollow trees and under roofs of houses Habitat Open areas















Promops nasutus

**MOLOSSIDAE** 



Status Least Concern



**Weight** 12 - 22g



ահահահահահ

Length 7 - 7.4cm



Diet Insectivorous

It takes shelter in hollow trees, cracks in rocks and buildings, roofs and attics. Features fidelity to shelter

















Tadarida brasiliensis

**MOLOSSIDAE** 



Status Least Concern



**Weight 8 - 15g** 



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**Length 5.2 - 6.2cm** 



Diet Insectivorous

Individuals use large cracks, building ceilings, bridges, culverts and caves as shelters, where they can group by the thousands

















Noctilio leporinus

**NOCTILIONIDAE** 

It lives in large colonies with up to hundreds of individuals. It is found in forested habitats, close to water sources

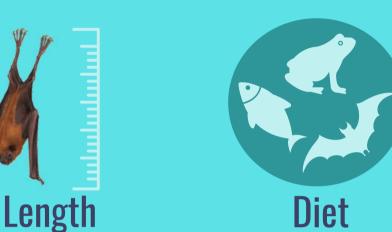


Status Least Concern

9.5cm



Weight 50 - 65g



Diet Carnivorous

Habitat Forest edge











Aunahor Cannolas :





Anoura caudifer

**PHYLLOSTOMIDAE** 



Status Least Concern



**Weight** 8 - 13.5g



Length 4.7 - 7cm



Diet Nectarivorous

Endemic to South America, shelters in caves, tunnels, hollow trees, cracks in rocks, manholes and human constructions

Habitat
Cluttered environments





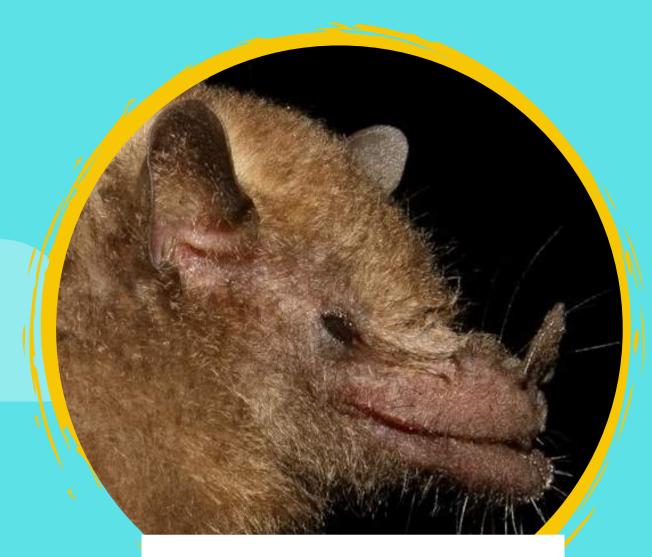






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**PHYLLOSTOMIDAE** 



Status Least Concern



**Weight** 13 - 18g



**Length 5.3 - 7.3cm** 



**Diet** Nectarivorous

Indoor bat, shelters in caves and culverts under highways. It can form colonies of up to a thousand individuals

Habitat
Cluttered environments











at Academica ?





Artibeus fimbriatus

**PHYLLOSTOMIDAE** 



Status Least Concern



Weight 48 - 60g



Length 8.7 - 10cm



**Diet** Frugivorous

Shelters in treetops or in artificial shelters such as garages and basements

Habitat
Cluttered environments











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Artibeus lituratus

**PHYLLOSTOMIDAE** 



Status Least Concern



Weight 65 - 82g



**Length** 9.3 - 11.3cm



Diet Frugivorous

Shelters in treetops or in original shelters such as garages and basements

Habitat
Cluttered environments











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**PHYLLOSTOMIDAE** 



Status Least Concern



**Weight** 59 - 94g



**Length** 9.3 - 11.4cm



Diet Carnivorous

Among the three largest bats in the Neotropics. It forms small colonies at the entrance to caves and tree hollows. It is associated with well-preserved areas.

Habitat
Cluttered environments











TO MININGS





Desmodus rotundus

**PHYLLOSTOMIDAE** 



Status Least Concern



**Weight 25 - 40g** 



Length 6.9 - 9cm



Diet Hematophagous

It has a social habit, forming large colonies. Shelters in caves, old wells, mines, tree hollows and abandoned buildings

Habitat
Cluttered environments















Glossophaga soricina

**PHYLLOSTOMIDAE** 



Status Least Concern



Weight 7 - 17g



Length 4.5 - 6.1cm



**Diet** Nectarivorous

It is sheltered in caves, tunnels, culverts, abandoned mines, hollow trees, logs, roofs and ceilings. Form colonies ranging from five to hundreds of individuals.

Habitat
Cluttered environments











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Platyrrhinus lineatus

**PHYLLOSTOMIDAE** 



Status Least Concern



**Weight** 18 - 28g



Length 6 - 7.8cm



Diet Frugivorous

Endemic to South America. Sheltered under foliage and branches

Habitat
Cluttered environments















Pygoderma bilabiatum

**PHYLLOSTOMIDAE** 



Status Least Concern



**Weight** 19 - 26g



**Length** 5.2 - 6.5cm



Diet Frugivorous

Uses foliage as shelter, palm trees and even artificial shelters

Habitat
Cluttered environments











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Sturnira lilium

**PHYLLOSTOMIDAE** 



Status Least Concern



Weight 15 - 25g



**Length 5.1 - 7.1cm** 



Diet Frugivorous

Shelters in hollows of trees, foliage and human buildings

Habitat
Cluttered environments

















They use hollows and bark of trees, caves, roofs of residences, among other natural or artificial shelters



Status Least Concern



Weight 13 - 19g



**Length** 10.2 - 11.7cm



Diet Insectivorous

Habitat
Forest edge



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Eptesicus diminutus

**VESPERTILIONIDAE** 



Status Least Concern



Weight 4.9 - 6.5g



**Length** 8.1 - 9.1cm



Diet Insectivorous

Shelters in bark and hollows of trees and human constructions

Habitat Forest edge

















Eptesicus furinalis

**VESPERTILIONIDAE** 

It uses caves, bark and tree hollows, human buildings as a shelter. It can form large colonies



Status Least Concern

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Length

8 - 14cm



Weight 7 - 14g



Diet Insectivorous

Habitat
Forest edge



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MINISTER COUNTRY







It can form small colonies in crevices of rocks, hollows of trees, caves, roofs of residences and artificial shelters



Status Least Concern

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Length

10 - 12cm



Weight 9 - 18g



Diet Insectivorous

Habitat Forest edge



Mylandor









AMICHINA CAMINATA







Synanthropic bats - inhabit roofs, blinds boxes, air conditioning niches and gaps between buildings. Colonies of varying sizes, from 10 to 70 individuals



Status
Data deficient

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Length

12 - 12.5cm



**Weight** 11 - 12g



Diet Insectivorous

Habitat
Forest edge



















It is usually solitary and shelters in trunks, forks and denser foliage of palm and banana trees. Can use dense grass and human buildings



Status Least Concern



Weight 13 - 20g



Length 9 - 15cm



Diet Insectivorous

Habitat

Forest edge











AMINATURE ACTUMENTS







Solitary, shelters in the tops of palm and banana trees, hollow trees, trunks with lichens and moss, branches and dry foliage of fruit trees and also urban areas



Status Least Concern



Weight 13 - 23g



**Length** 11.9 - 13.5cm



Diet Insectivorous

Habitat Forest edge











AMORINA CAMINISTA







Solitary, they shelter in the crowns of palm and banana trees, hollow trees, trunks with lichens and moss, branches and dry foliage of fruit trees and also wrban areas



Status Least Concern



Weight 10.6g



Length 10.8cm



Diet Insectivorous

Habitat Forest edge





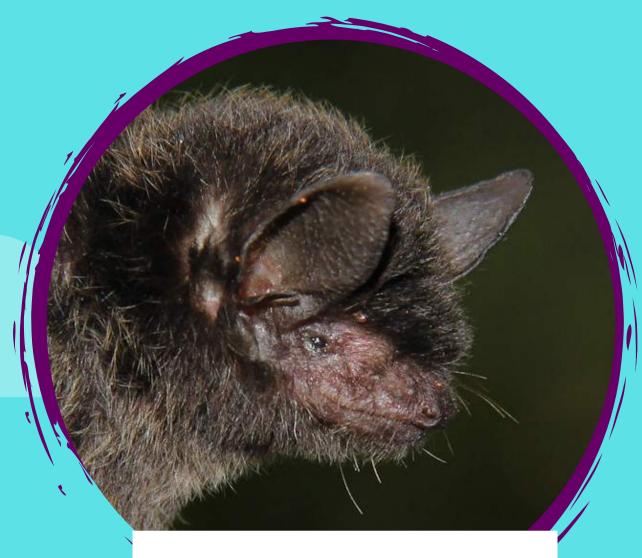






MODIFIED COUNTRY





Myotis albescens

### **VESPERTILIONIDAE**

It occupies all types of shelter: caves, cracks in rocks, trees (tops, hollows and barks), river banks and human constructions



Status Least Concern



Weight 7 - 11g



**Length** 6.8 - 9.4cm



Diet Insectivorous

Habitat Forest edge











AMANINA TANINA SI







Form small groups to large colonies and shelter in caves, hollow trees and even bark of trees



Status Least Concern

mhahaladad

Length

7.7 - 9.9cm



Weight 4 - 9g



Diet Insectivorous













AMAMIN'S CAMINIONS





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Status Least Concern



Weight 5 - 6g



Diet Insectivorous



**Length 4.2 - 4.7cm** 

VESPERTILIONIDAE

It shelters in human constructions, bark of trees, and roofs. It forms colonies with up to 50 individuals. Captures its prey on the water

**Habitat** 

Forest edge











MUDALINE YOUR ASSESSED.





Myotis ruber

# **VESPERTILIONIDAE**

Inhabits tree hollows, crevices in rocks or human constructions. Preferably solitary, it can form small colonies



Status Least Concern

mhuhuhuhul

Length

8.5 - 8.9cm



Weight 6 - 8g



Diet Insectivorous

Habitat

Forest edge











MUNICAL CAMINIONS &

