Habitat

The extant Linnaeus's two-toed sloth is a neotropical mammal utilizing its suspensory capabilities in northern South America.





Habitat preference are large lianas in tropical rainforests that are vastly abundant with their woody vines to assist in their arboreal lifestyle.

Fun Facts

- 1.) Hair parts in the middle ventrally sweeping over their body to wick off rain due to living upside.
- 2.) Algae can grow on their hair in moist conditions giving them a green tint.
- 3.) Descend to the base of trees about once a week where they can defecate up to 30% of their total body mass.

Scan for a video of their interesting bathroom habit!

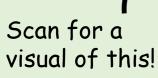


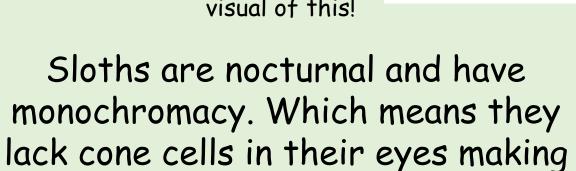


Form & Function

Two-toed sloths are very slow! They move about 1.5 mph. Hook-like fingers and toes anchored perpendicularly on branches allow scansorial movement on the inverse of gravity among tree canopies.

The form of their phalanges make rare occasions on the ground an awkward experience.





Due to spending much time upside they can't rely on gravity to help blood flow. As a result, they have high blood pressure (128 mmHg) to aid in circulation.

them blind in bright light.

Linnaeus's two-toed sloth Choloepus didactylus



Classification

Kingdom: Animalia
Phylum: Chordata
Class: Mammalia
Order: Pilosa
Family: Choloepodidae
Genus: Choloepus
Species: didactylus

Reproduction

Sexual maturity is reached at 2-4 years of age. Females mate with many males (Polygyny). Males and females rub anal scent glands on trees to send messages. The act of mating typically lasts <1min.

The gestation period is 10-11.5 months. One young is conceived while hanging upside down. The lactation period lasts for 3-5 months.

Diet



Two-toed sloths are primarily florivorous where they selectively eat tropical leaves. They can occasionally feed on fruits and flowers when available. Food can remain for 70-90 hrs. in their stomach from the lengthy process it takes to break down the cellulose of plants.



They have a four-chambered ruminant stomach that aids in breaking down this plant matter. A florivorous diet leads to a slow metabolic rate. To compensate for the low energy content from leaves, they often eat large amounts to make up for it. A full stomach can account for up to 30% of their body mass.

Kelsey Stritmatter, Montana State University, Mammalogy-Fall 2022

Evolution

Modern sloths are smaller in size than their late ancestors, the megatheriid sloths (referred to as 'ground sloths'). These ground sloths did not overcome the colonization during the Panamanian Isthmus.

18-40 mya is when two-toed sloths (Choloepus) diverged as extant species from their late giant ancestors.

Sociality & Behavior

Sloths are typically solitary mammals unless with their young.



A mother will carry her young 7-9 months where life skills develop. A behavioral relationship between the two can remain for 12 months. If the bond lasts too long, the survival of the next offspring can be depleted.



Conservation

Although a species of least concern, sloth populations still face threats to human expansion, habitat fragmentation, urbanization and obstructions (e.g., roads). The Sloth Conservation Foundation has some solutions.





Over 201 'Sloth crossings' have been installed to prevent ground collisions.

5,639 favored tree species have been planted by the conservation group to increase habitat. Have started to use radio telemetry to monitor the population dynamics of 32 sloths in Costa Rica for future management.

Least Concern

