

What 1s a

· BiodiverdityVisthsviatiety and differences among living organisms from all sources, including terrestrial, marine, and other aquatic ecosystems and the ecological complexes of which they are a part.Thus, in essence, biodiversity represents all life.

Why is biodiversity

Biodiversity boosts ecosystem productivity where each species, no matter how small, all have an important role to play.

For example,

- A larger number of plant species means a greater variety of crops.
- Greater species diversity ensures natural sustainability for all life forms

- Healthy ecosystems
 can better
 withstand and
 recover from a
 variety of disasters.
- And so, while we dominate this planet, we still need to preserve the diversity in wildlife.







 The Central African Republic (CAR) is a landlocked country in Central Africa. It borders Chad in the north, Sudan in the northeast, South Sudan in the east, the Democratic Republic of the Congo and Congo in the south, and Cameroon in the west. The CAR covers a land area of about 240,000 square miles (620,000 km²), and has an estimated population of about 4.4 million as of 2008. Bangui is the capital city.

Biodiversity of CAR

 The tropical rain forest in the southwest contains luxuriant plant growth, with some trees reaching a height of 46 m (150 ft). Toward the north, the forest gradually becomes less dense, with wider patches of grassland, and eventually gives way to the rolling hills of the savanna, interrupted by taller growths along riverbeds.



Almost every animal of the tropics is found, including the elephant; its ivory was once a major source of wealth but has declined in economic importance. The southwest has a

colorful variety of butterflies.



Flora

The flora of the Central African Republic has not been very well studied at all, although at least 3600 species are known. However there are likely to be as many as 5000 species. The country is mainly dominated by Sudanian woodland, although a small area of Acacia dominates the Sahelian woodland in the extreme north. Many of the species which are endemic to the country are located in the hills of northeast.

In the southwest is lowland forest and secondary grassland interspersed with forest .Lowland forest exists in the southwest in the Dzangha-Sangha areas. Shrubs an bush vegetation is mostly confined in the extreme northern region.





Tropical forests cover 3.5 million hectare. The tropical forests contain luxuriant plant growth with hundreds of plant species. Woodland savannah mainly consists of Vittelaria paradoxa, Combretum spp., Acacia spp., An ogeissus leiocarpa, Afzelia africana, Burkea africana, Isoberlinia doka, Terminalia spp., Khaya senegalensis ,Rafia sudanica and Borassus spp. along the rivers.

Vitelaria paradox

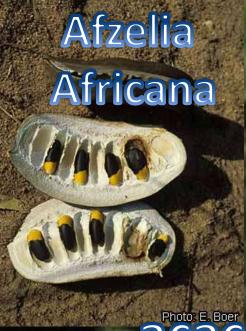














Fauna The African rain forest is home to many unique animals including the aardvark, bonobo (pygmy chimpanzee), common chimpanzee and gorilla as well as the duiker, bongo and bushbuck antelopes. Animal life is greatly varied in over relatively small areas in the rain forest; a 4-mile patch is capable of sustaining hundreds of species of birds, butterflies and amphibians.



Many of these cannot be found anywhere else, making the African rain forest an extremely important conservation environment. The pygmy hippopotamus, which makes its home solely in Sierra Leone and the Côte d'Ivoire's Bandama River, is classified as endangered by the International Union for Conservation of Nature, which estimates the remaining number at 3,000 individuals.























Threat to biodiversity in central

The most serious immediate threat to the region's biodiversity is the commercial hunting of wildlife for the bush meat trade and the illegal ivory trade. Longer-term threats include the destruction of forest habitats by timber companies, and the increase in the numbers of people clearing forests for agricultural land.:





- In all, threats include:-
- Unsustainable and illegal logging operations
- Population growth and poverty
- Poor environmental governance and policy framework
- Disincentives for sustainable forest management
- Weak protected areas network
- Weak scientific understanding of environmental issues
- Political instability and war





- These threats lead to:
- Dwindling population of animal species
- Reduced diversity of the forest genetic pool
- Soil erosion and loss of fertility of the soil
- Increased sedimentation downstream
- Human conflicts over forest resources
- Threat to indigenous communities
- Principal seed dispersers (e.g. elephants, duikers) eliminated with consequential change in forest patterns and regeneration
- Loss of local and national economies

Conservation of CAR

There was a time When tehtral African Republic was given the epithet "an animal paradise". However, over the centuries, this situation changed. To conserve the rich wild life resources of the Central African Republic has therefore been a major issue of concern.

As the world's largest funder of projects to improve the environment and preserve biodiversity, the GEE plays an active role in helping to conserve and protect biodiversity in Africa. The GEF's unique and critical work has a life-saving, game-changing impact on communities worldwide.

The GEF projects discussed in this publication help

Africa preserve natural resources that deliver multiple environmental

and economic benifits both for local populations

and for the world.

Conclusion

Sustainable and equitable natural resource management is the key not just to the maintenance of biodiversity but equally to human development and well-being. Biodiversity conservation in Central Africa presents a difficult challenge. Habitat destruction, overexploitation of natural resources, invasive

species and pollution all directly threaten the ecosystems

on which these populations depend.

. Yet, conserving the unique and rich biodiversity of West and Central Africa is vital not just for the lives and futures of the people of this region but also for the global environment and the global community. At the global level, current rates of extinction have never been so high: the nature have done its bit; and now its our duty to do our bit.

