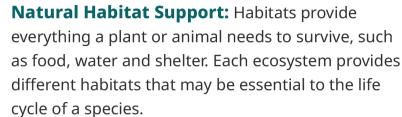


Ecosystem Services

Maintenance of genetic diversity: Genetic diversity relates to different breeds and species variability. It is the basis for good local adaptation. In addition, the gene pool is important for the development of agriculture and livestock.



Regulation of the water cycle: Ecosystems like wetlands filter both human and animal effluents and act as a natural buffer for the environment. Most waste is decomposed through the biological activity of microorganisms in the soil.

Regulation of local micro-climate and air **quality:** Forests, trees and other plants play an important role in regulating local climate and air quality, both locally and regionally, by providing shade, influencing water availability and rainfall, and removing pollutants from the atmosphere.

Moderation of extreme events: Ecosystems and living organisms act as buffers against natural disasters, thus avoiding possible damage. For example, wetlands can absorb floodwater and trees can stabilize slopes.

Provision of food: Agroforestry systems, freshwater systems and forests provide the necessary conditions for growing food for human consumption.

Leisure and tourism cultural services: The role that green areas play in maintaining mental and physical health is increasingly recognized. Ecosystems and biodiversity also play an important role for many types of tourism, which in turn provide considerable economic benefits, are a vital source of income for many countries, and can educate people about the importance of biological diversity.

Threats to Ecosystem Services









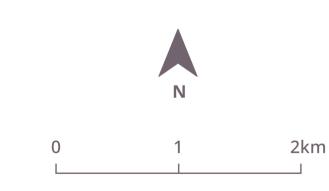












Threatened

2023 MUNICIPALITY OF CANOAS - RIO GRANDE DO SUL POPULATION: 349,728 INHABITANTS AREA: 130,789 KM²







Forested areas



Undergrowth areas















Tourism





Cartographic Base

– – – Neighborhoods **— — — Channeled rivers**

Dikes





Extensive monoculture

waste

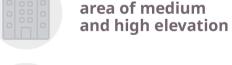
Little concern

disposal

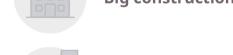
elevation urban area

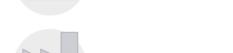














Map illustrated by Patricia Yamamoto Cartographic base by Tiago Mello SIRGAS 2000 UTM Zone 225 Transverse Mercator Projection